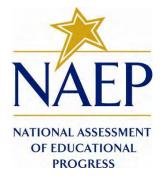
NATIONAL CENTER FOR EDUCATION STATISTICS NATIONAL ASSESSMENT OF EDUCATIONAL PROGRESS

National Assessment of Educational Progress (NAEP) 2018

Appendix I

NAEP 2018 Survey Questionnaires

OMB# 1850-0928 v.7



August 2017

Appendix F provides the library of possible items to be used in the NAEP 2018 and 2019 questionnaires. This appendix (Appendix I) provides the final versions of the NAEP 2018 questionnaires, along with a summary of the minor, non-substantive, wording changes that have been made to these items as a result of pilot and cognitive testing and final reviews. In addition, please note that some of the questionnaires will utilize spiraling in order to minimize respondent burden while maximizing the amount of items that can be piloted. The spiral maps for these questionnaires are also included.

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Abbreviation Key
BET: Background, Education, and Training
COI: Classroom Organization and Instruction
NTPS: National Teacher and Principal Survey
SBT: Scenario Based Tasks
SCP: School Characteristics and Polices
TEL: Technology and Engineering Literacy

The items presented in this appendix are those to be used in the digitally based assessments. Some of the questionnaires will also be administered in paper based assessments. Adaptations to the item-level directions may be made, as appropriate (for example, "select one answer choice on each row" in DBA would become "fill in one oval on each line" in PBA).

The following text will appear on all NAEP questionnaires and student assessments:

Paperwork Burden Statement

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this voluntary information collection is 1850-0928. The time required to complete this information collection is estimated to average [xx] minutes, including the time to review instructions, search existing data resources, gather the data needed, and complete and review the information collection. If you have any comments concerning the accuracy of the time estimate, suggestions for improving this collection, or any comments or concerns regarding the status of your individual submission, please write to: National Assessment of Educational Progress (NAEP), National Center for Education Statistics (NCES), Potomac Center Plaza, 550 12th St., SW, 4th floor, Washington, DC 20202.

Authorization and Confidentiality Assurance

National Center for Education Statistics (NCES) is authorized to conduct NAEP by the National Assessment of Educational Progress Authorization Act (20 U.S.C. §9622) and to collect students' education records from education agencies or institutions for the purposes of evaluating federally supported education programs under the Family Educational Rights and Privacy Act (FERPA, 34 CFR §§ 99.31(a)(3)(iii) and 99.35).

The information [you/your child/each student - as applicable] provides will be used for statistical purposes only. In accordance with the Confidential Information Protection provisions of Title V, Subtitle A, Public Law 107-347 and other applicable Federal laws, [your/your child's/each student's - as applicable] responses will be kept confidential and will not be disclosed in identifiable form to anyone other than employees or agents. By law, every NCES employee as well as every NCES agent, such as contractors and NAEP coordinators, has taken an oath and is subject to a jail term of up to 5 years, a fine of \$250,000, or both if he or she willfully discloses ANY identifiable information about [you/your child/each student - as applicable]. Electronic submission of [your/your child's/ each student's - as applicable] information will be monitored for viruses, malware, and other threats by Federal employees and contractors in accordance with the Cybersecurity Enhancement Act of 2015. The collected information will be combined across respondents to produce statistical reports.

Appendix I-1: Student Questionnaires

Appendix I-1a: 2018 Operational and Pilot Grade 4, 8, and 12 Core Debrief Items

The 2018 Operational and Pilot Grade 4, 8, and 12 Core Debrief items are the same as what was submitted as items 1-5 in Appendix F-1a and F-1b.

- 1. How important was it to you to do well on this test?
 - Not very important
 - Somewhat important
 - © Important
 - D Very important
- 2. How easy or difficult was this test?
 - Extremely difficult
 - Quite difficult
 - © Somewhat difficult
 - Somewhat easy
 - Quite easy
 - © Extremely easy
- 3. How much effort did you apply to succeed on this test?
 - No effort at all
 - ③ Very little effort
 - © Some effort
 - [©] Quite a bit of effort
 - C A lot of effort

VH260313

VH240003

- 4. How challenging was taking this test?
 - Not challenging at all
 - A little challenging
 - © Somewhat challenging
 - Quite challenging
 - © Extremely challenging

VH333661

- 5. How much time pressure did you feel when taking this test?
 - No time pressure at all
 - A little bit of time pressure
 - © Some time pressure
 - O Quite a bit of time pressure
 - © A lot of time pressure

Appendix I-1b: Summary of Revisions Grade 4, 8, and 12 Core

Previous item			2018 item			D/A/ R/NC+	Rationale
1. Are you Hispanic or Latino? Select one of	or more answer ch	oices.	1. Are you Hispanic or Latino? Select one	or more answer ch	pices.	NC	
No, I am not Hispanic or Latino.			No, I am not Hispanic or Latino.				
D Yes, I am Mexican, Mexican America	an, or Chicano.			an, or Chicano.			
O Yes, I am Puerto Rican or Puerto Ric	an American.		O Yes, I am Puerto Rican or Puerto Ric				
D Yes, I am Cuban or Cuban American			D Yes, I am Cuban or Cuban American				
D Yes, I am from some other Hispanic	or Latino backgrou	ınd.	© Yes, I am from some other Hispanic	or Latino backgrou	ind.		
(2016 Pilot Grade 12, 2017 Opera	ational Grades	5 4 and 8)	Issue: Race/Ethnicity				
2. Which of the following best describes yo	ou? Select one or n	nore answer choices.	2. Which of the following best describes y	ou? Select one or m	tore answer choices.	NC	
The White			White				
Black or African American			D Black or African American				
© Asian			© Asian				
D American Indian or Alaska Native							
D Native Hawaiian or other Pacific Isl	ander		D Native Hawaiian or other Pacific Isl				
(2016 Pilot Grade 12, 2017 Opera	ational Grades	5 4 and 8)	Issue: Race/Ethnicity				
3. About how many books are there in y	your home?	•	3. About how many books are there in y	NC			
Few (0–10)							
 D Enough to fill one shelf (11-25) 			 D Enough to fill one shelf (11-25) 				
	00						
 © Enough to fill one bookcase (26–1 © Enough to fill several bookcases (1 			 © Enough to fill one bookcase (26–1 © Enough to fill several bookcases (
(2016 Pilot Grade 12, 2017 Opera		5 4 and 8)	Issue : Socioeconomic Status				
4. Do you have any of the following in your home			4. Do you have any of the following in your hom	e? Select one answer cl	toice on each row.	NC	
	Yes	No		Yes	No		
a. Access to the Internet	0	0	a. Access to the Internet	0	(D)		
b. Clothes dryer just for your family c. Dishwasher	@ @	0	b. Clothes dryer just for your family c. Dishwasher	8	0		
d. Your own bedroom	8	@ @	d. Your own bedroom	8	0		
e. A desktop or laptop computer (including Chromebooks) that you can use	Ø	Ø	e. A desktop or laptop computer (including Chromebooks) that you can use	0	۵		
f. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	۵	æ	f. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	9	œ		
g. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	Ø	œ	g. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use				

Previous item	ill be used at all grades unless otherwise specified. 2018 item	D/A/	Rationale
		R/NC+	Nationale
5. How often do you use the Internet for homework at home?	5. How often do you use the Internet for homework at home?	NC	
D Never	D Never		
D About once or twice a month	About once or twice a month		
	D Almost every day		
© Every day	© Every day		
(2016 Pilot Grade 12, 2017 Operational Grades 4 and 8)	Issue: Technology Use		
6. How many days were you absent from school in the last month?	6. How many days were you absent from school in the last month?	NC	
None None	None None		
© 1 or 2 days	© 1 or 2 days		
© 3 or 4 days	© 3 or 4 days		
© 5 to 10 days	© 5 to 10 days		
© More than 10 days	More than 10 days		
(2016 Pilot Grade 12, 2017 Operational Grades 4 and 8)	Issue: School Climate		
7. How often do you talk about things you have studied in school with someone in your family?	7. How often do you talk about things you have studied in school with someone in your family?	NC	
Never or hardly ever	Never or hardly ever		
D Once every few weeks	D Once every few weeks		
© About once a week	© About once a week		
D Two or three times a week	D Two or three times a week		
D Every day	© Every day		
(2017 Operational Grades 4 and 8)	Issue: Socioeconomic Status		
8. How far in school did your mother go?	8. How far in school did your mother go?	NC	This item will
She did not finish high school.	She did not finish high school.		only be used at grades 8 and 12
She graduated from high school.	D She graduated from high school.		Brades o dila 17
© She had some education after high school.	© She had some education after high school.		
She graduated from college.	The graduated from college.		
© I don't know.	D I don't know.		
(2016 Pilot Grade 12, 2017 Operational Grades 4 and 8)	Issue: Socioeconomic Status		

Grade 4, 8, and 12 Core Student Items will be used at all grades unless otherwise specified.										
Previous item	2018 item	D/A/ R/NC+	Rationale							
9. How far in school did your father go?	9. How far in school did your father go?	NC	This item will							
D He did not finish high school.	The did not finish high school.		only be used at grades 8 and 12.							
He graduated from high school.	He graduated from high school.		grades o and 12.							
© He had some education after high school.	© He had some education after high school.									
He graduated from college.	He graduated from college.									
D I don't know.	I don't know.									
(2016 Pilot Grade 12, 2017 Operational Grades 4 and 8)	Issue: Socioeconomic Status									
10. Does your mother work?	10. Does your mother work?	NC	This item will							
The Yes	© Yes		only be used at grades 8 and							
D No	D No		12.							
© I don't know.	© I don't know.									
(2016 Pilot Grade 12, 2017 Operational Grades 4 and 8)	Issue: Socioeconomic Status									

⁺ This column indicates whether the item was dropped (D), added (A), revised (R), or there was no change (NC).

Previous item			2018 item			D/A/ R/NC+	Rationale
 What does your mother do what she does at work. 	o for work? Select the choice	that most closely describes	 What does your mother do what she does at work. 	for work? Select the choice	that most closely describes	NC	This item will only be used a
@ Accountant	@ Farmer	Religious worker	@ Accountant	@ Farmer	Religious worker		grade 12.
@ Artist	@ Firefighter	Repair technician	@ Artist	③ Firefighter	Repair technician		
(1) Athlete	To Grounds worker	Salesperson	Athlete Athlete	③ Grounds worker	C Salesperson		
Carpenter	③ Health aide	Scientist	Carpenter	③ Health aide	@ Scientist		
@ Cashier	The Helper	(1) Secretary	@ Cashier	The Helper	@ Secretary		
@ Cleaner	@ Housekeeper	Security guard	© Cleaner	@ Housekeeper	@ Security guard		
@ Clerk	@ Janitor	@ Server	© Clerk	Janitor	 Server 		
College professor	② Lawyer	Social worker	College professor	② Lawyer	Social worker		
Construction worker	③ Librarian	D Software developer		LawyerLibrarian			
@ Cook	③ Manager	I Stocker	Construction worker		Software developer		
Customer service	@ Marketing	I Supervisor	@ Cook	Manager	Stocker		
Day care worker	(1) Mechanic	@ Surgeon	O Customer service	Marketing Marketing	Supervisor		
③ Dental hygienist	Medical technician	@ Surveyor	Day care worker	③ Mechanic	Surgeon		
Dentist	③ Military	Taxi driver	Dental hygienist	Medical technician	Surveyor		
(Designer	(19) Miner	1 Teacher	Dentist	Military	Taxi driver		
Doctor	1 Nurse	(19) Therapist	(Designer	Miner	Teacher		
D Education	③ Office support	(1) Transportation	③ Doctor	③ Nurse	Therapist		
administrator	Painter	Truck driver	Education administrator	③ Office support	Transportation		
@ Electrician	@ Pharmacist	Veterinarian		Painter Painter	Truck driver		
1 Engineer	Police	(b) Writer	@ Electrician	Pharmacist	Veterinarian		
@ Executive	@ Receptionist	Other (Please specify):	⁽¹⁾ Engineer	D Police	Writer		
			ExecutiveFactory worker	Receptionist	Other (Please specify):		
2016 Pilot Grade 12))		Issue: Socioeconomic				
2. Does your father work	k?		12. Does your father work			NC	This item will on
Tes Yes			Tes (be used at grade
[®] No			[®] No				8 and 12.
© I don't know.			© I don't know.				

Previous item			2018 item			D/A/ R/NC+	Rationale
 What does your father do what he does at work. 	for work? Select the choice	that most closely describes	 What does your father do what he does at work. 	for work? Select the choice	that most closely describes	NC	This item will only be used a
@ Accountant	@ Farmer	Religious worker	@ Accountant	@ Farmer	Religious worker		grade 12.
@ Artist	@ Firefighter	@ Repair technician	@ Artist	D Firefighter	@ Repair technician		
@ Athlete	@ Grounds worker	(Salesperson	@ Athlete	@ Grounds worker	(Salesperson		
Carpenter	Health aide A state A stat	Scientist	@ Carpenter	④ Health aide	@ Scientist		
@ Cashier	Helper	Secretary	@ Cashier	@ Helper	@ Secretary		
© Cleaner	@ Housekeeper	Security guard	@ Cleaner	@ Housekeeper	Security guard		
@ Clerk	@ Janitor	le Server	@ Clerk	Janitor	@ Server		
College professor	@ Lawyer	Social worker	College professor	@ Lawyer	@ Social worker		
Construction worker	③ Librarian	© Software developer	Construction worker	Librarian	© Software developer		
@ Cook	Manager Manager	D Stocker	@ Cook	D Manager	© Stocker		
Customer service	Marketing	(1) Supervisor	Customer service	Marketing	③ Supervisor		
Day care worker	Mechanic Mechanic	(Surgeon	Day care worker	Mechanic	Surgeon		
Dental hygienist	Medical technician	Surveyor	Day care worker Dental hygienist	 Medical technician 	© Surveyor		
Dentist	Military Military	🕲 Taxi driver			 Surveyor Taxi driver 		
(Designer	Miner	Teacher	Dentist	Military Milit			
Doctor	D Nurse	(1) Therapist	(1) Designer	Miner	1 Teacher		
Education administrator	③ Office support	(1) Transportation	Doctor	1 Nurse	Therapist		
⁽³⁾ Electrician	③ Painter	Truck driver	D Education administrator	③ Office support	Transportation		
Engineer	Pharmacist	Veterinarian	@ Electrician	Painter	Truck driver		
Engineer Executive	Police	T Writer	(1) Engineer	Pharmacist	O Veterinarian		
	Receptionist	Other (Please specify):	@ Executive	Delice	Writer		
			D Factory worker	Receptionist	Other (Please specify):		

Previous item			2018 item			D/A/	Rationale					
 Do any of the following people live in your he row. 	ome? Select one ansy	ver choice on each	 Do any of the following people live in your ho row. 	me? Select one answ	wer choice on each	R/NC+ NC						
	Yes	No		Yes	No							
a. Mother	0	Φ	a. Mother	0	Φ							
b. Stepmother	Ø	Φ	b. Stepmother	3	Φ							
c. Foster mother or other female legal guardian	Ø	æ	 Foster mother or other female legal guardian 	Ø	Φ							
d. Father	0	Φ	d. Father	0	Ð							
e. Stepfather	0	Ð	e. Stepfather	8	Φ							
f. Foster father or other male legal guardian	0	Đ	f. Foster father or other male legal guardian	Ø	Ð							
(2016 Pilot Grade 12, 2017 Opera	ational Grade	s 4 and 8)	Issue: Socioeconomic Status									
 Never In some classes In about half of the classes In more than half of the classes In all or almost all classes (2017 Operational Grades 4 and 5) 16. In this school year, how often did you used		nle, Surface Pro, iPad.	 Never In some classes In about half of the classes In more than half of the classes In all or almost all classes Issue: Technology Use 16. In this school year, how often did you us	se a tablet (for ex	ample, Surface Pro, iPad	NC						
Kindle Fire) during your classes at school	?	ipie, surface Pro, iPau,	Kindle Fire) during your classes at school	ampie, surface Pro, iPau,	NC							
③ Never			Never									
D In some classes			D In some classes									
© In about half of the classes			© In about half of the classes									
In more than half of the classes			In more than half of the classes									
D In all or almost all classes			D In all or almost all classes									
(2016 Pilot Grade 12, 2017 Opera	ational Grade	s 4 and 8)	Issue: Technology Use									

Previous item						2018 item						D/A/ R/NC+	Rationale
17. How much does each one answer choice on		ng statement	s describe a pe	erson like you	? Select	 How much does each of the following statements describe a person like you? Select one answer choice on each row. 						NC	
	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Very much like me		Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Very much like me		
a. I finish whatever I begin.	Ø	Ð	Q	۵	Ð	a. I finish whatever I begin.	Ø	Ð	©	۵	Ð		
b. I try very hard even after making mistakes.	Ø	Ð	©	0	Ð	 b. I try very hard even after making mistakes. 	Ø	Ð	©	۵	Ð		
c. I keep working hard even when I feel like quitting.	۵	0	0	٥	Φ	c. I keep working hard even when I feel like quitting.	Ø	Ð	©	Ø	Ð		
 I keep trying to improve myself, even when it takes a long time to get there. 	۲	Ð	Ø	۵	Φ	 I keep trying to improve myself, even when it takes a long time to get there. 	0	Ð	©	۵	Φ		
2017 Operationa	l Grades	4 and 8)				 Issue: Perseverance 18. How much does each of the following statements describe you? Select one answer choice on each row. 						A	This item was added to the
							Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Very much like me		Grade 4, 8, and 1 pilots to compare
						a. I finish whatever I begin.	8	Ð	O	٩	Ð		the language
						 I try very hard even after making mistakes. 	0	Φ	0	Ø	Φ		"describe a perso like you" and
						c. I keep working hard even when I feel like quitting.	Θ	Ð	ø	۵	Ð		"describe you". Student Grade 4,
						 I keep trying to improve myself, even when it takes a long time to get there. 	Θ	Φ	Q	٩	Ð		8, and 12 will be spiraled, therefor students will only
													receive one

Previous item						2018 item						D/A/ R/NC+	Rational
19. In this school year, ho choice on each row.	w often have y	rou done each	of the followin	ng? Select one	answer	19. In this school year, how choice on each row.	w often have y	ou done each	of the followin	ng? Select one	answer	NC	
	Never or hardly ever	Less than half of the time	About half of the time	More than half of the time	All or almost all of the time		Never or hardly ever	Less than half of the time	About half of the time	More than half of the time	All or almost all of the time		
 I started working on assignments right away rather than waiting until the last minute. 	۵	œ	Ø	Φ	Φ	 a. I started working on assignments right away rather than waiting until the last minute. 	0	œ	Ø	۵	Ð		
 I paid attention and resisted distractions. 	0	œ	0	Ø	Θ	b. I paid attention and resisted distractions.	0	Ð	ø	Ø	Ð		
 c. I stayed on task without reminders from my teacher. 	0	0	0	۵	Φ	c. I stayed on task without reminders from my teacher.	0	0	ø	۵	Φ		
d. I paid attention in class even when I was not interested.	٩	Φ	Ø	۵	Ð	d. I paid attention in class even when I was not interested.	9	θ	ø	۵	Ø		
2017 Operational Grades 4 and 8) 20. How much does each of the following statements describe a person like you? Select one answer choice on each row.													
20. How much does each	of the follow		s describe a pe	erson like you	? Select	Issue: Perseverance 20. How much does each one answer choice on	of the followi	ng statement:	s describe a pe	rson like you	Select	NC	
20. How much does each	of the follow		s describe a pe Somewhat like me	erson like you Quite a bit like me	? Select Very much like me	20. How much does each	of the followi	ng statement: A little bit like me	s describe a pe Somewhat like me	rson like you Quite a bit like me	Select Very much like me	NC	
20. How much does each	of the followieach row.	A little bit	Somewhat	Quite a bit	Very much	20. How much does each	of the followi each row.	A little bit	Somewhat	Quite a bit	Very much	NC	
 20. How much does each one answer choice on a. I like complex problems more than easy problems. b. I like activities that challenge my thinking abilities. 	of the follow each row. Not at all like me	ng statements A little bit like me	Somewhat like me	Quite a bit like me	Very much like me	 20. How much does each one answer choice on a. Hike complex problems more than 	of the followi each row. Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Very much like me	NC	
 20. How much does each one answer choice on a. I like complex problems more than easy problems. b. I like activities that challenge my thinking 	of the follow: each row. Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Very much like me	 20. How much does each one answer choice on a. I like complex problems more than easy problems. b. I like activities that challenge my thinking 	of the followi each row. Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Very much like me	NC	

Previous item						2018 item						D/A/ R/NC+	Rationale
N/A						21. How much does each choice on each row.	of the follow	ing statement	s describe you	? Select one a	inswer	А	This item was added to the
							Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Very much like me		Grade 4, 8, and 12 pilot to compare
						 a. I like complex problems more than easy problems. 	Ø	Ф	©	٩	Φ		the language "describe a perso
						b. I like activities that challenge my thinking abilities.	0	Ð	Q	0	Ð		like you" and "describe you".
						c. I enjoy situations where I will have to think about something.	0	Ф	Q	۵	Ð		Student Grade 4, 8, and 12 will be
						I enjoy thinking about new solutions to problems.	0	Ð	Ø	0	Ð		spiraled, therefore students will only receive one
						Issue: Enjoyment	Issue: Enjoyment of Difficult Problems						version of this item.
22. In this school year, how often have you felt any of the following ways about your school? Select one answer choice on each row.						22. In this school year, how often have you felt any of the following ways about your school? Select one answer choice on each row.						NC	
	Never or hardly ever	Less than half of the time	About half of the time	More than half of the time	All or almost all of the time		Never or hardly ever	Less than half of the time	About half				
 a. I felt awkward and out of place at school. 	0	9	0	0	Ð	 I felt awkward and out of place at school. 	Ø	œ	O	Ø	Ð		
b. I felt happy at school.	0	Ð	Q	٢	Ð	b. I felt happy at school.	0	Ð	0	Ø	Ð		
c. I felt that I learned	0	0	0	0	Ð	c. I felt that I learned something that I can	0		0	0	Φ		

	de 4, 8, and 12 Core Student vill be used at all grades unless otherwise specified				
Previous item	2018 item			D/A/ R/NC+	Rationale
 During this school year, which of the following have you done? Select all that apply. Taken the SAT or ACT College Entrance Exams 	 During this school year, which of the following each row. 	; have you done? Sel	ect one answer on	R	This item was revised from a
Submitted the Free Application for Federal Student Aid (FAFSA)		Yes	No	1	multiple
© Applied to a 2-year college	a. Taken the SAT or ACT College Entrance			1	selection
D Been accepted to a 2-year college	Exams	Ø	Φ		
D Applied to a 4-year college	b. Submitted the Free Application for Federal Student Aid (FAFSA)	8	Ð		multiple choice
D Been accepted to a 4-year college	c. Applied to a 2-year college	0	Φ	1	item to a matrix
 Applied to a certificate or diploma program at a school that provides occupational training 	d. Been accepted to a 2-year college	0	•	1	item to improve
(such as electrician, beautician, mechanic, computer programmer, etc.)	e. Applied to a 4-year college	0	Φ	1	the data
Been accepted to a technical training program	f. Been accepted to a 4-year college	0	Ð		collection. This
 Talked with a military recruiter Enlisted in the military Enlisted in the military 	g. Applied to a certificate or diploma program at a school that provides occupational training (such as electrician, beautician, mechanic, computer programmer, etc.)	۵	Φ		item will only be used at
Applied for a full-time job Applied for a full-tim	h. Been accepted to a technical training	0	æ		grade 12.
D Been interviewed for a full-time job	i. Talked with a military recruiter	1990		4	
Solution None of the above	j. Enlisted in the military	0	@ @	1	
	k. Applied for a full-time job	8			
	1. Been interviewed for a full-time job	۵	Φ	1	
(2016 Pilot Grade 12)	Issue: Post High School Preparation	n			
24. Which of the following best describes your high school program?	24. Which of the following best describes yo	our high school p	rogram?	NC	This item will only
D General	© General				be used at grade
					12.
D Academic or college preparatory	D Academic or college preparatory				
© Vocational or technical	© Vocational or technical				
(2016 Pilot Grade 12)	Issue: Post High School Preparation	n			
25. Write the ZIP code of your home address in the box.	25. Write the ZIP code of your home addres	s in the box.		NC	This item will no
		and the state		-	longer be
					administered at
					grade 4 due to
(2016 Pilot Grade 12, 2017 Operational Grades 4 and 8)	Issue: Socioeconomic Status				feedback
					received from
					the field as part
					of the 2017
					administration.

Appendix I-1c: Pilot Grade 4 Core

In the pilot assessments, not all questions presented in the questionnaire will be administered to an individual student. Rather, students will receive a subset of the questions, as indicated in the spiral map presented after the questionnaire.

Note that pilot items are labeled as 2019 pilot which indicates that they will be piloted in 2018 for operational use in 2019.

- 1. Are you Hispanic or Latino? Select one or more answer choices.

 - (1) Yes, I am Mexican, Mexican American, or Chicano.
 - © Yes, I am Puerto Rican or Puerto Rican American.
 - Yes, I am Cuban or Cuban American.
 - © Yes, I am from some other Hispanic or Latino background.

- 2. Which of the following best describes you? Select one or more answer choices.
 - White
 White
 - Black or African American
 - © Asian
 - American Indian or Alaska Native
 - © Native Hawaiian or other Pacific Islander
- 3. About how many books are there in your home?
 - ℬ Few (0–10)
 - Enough to fill one shelf (11–25)
 - © Enough to fill one bookcase (26–100)
 - © Enough to fill several bookcases (more than 100)

VH240387

4. Do you have any of the following in your home? Select **one** answer choice on each row.

	Yes	No	
a. Access to the Internet	Ø	®	VH271105
b. Clothes dryer just for your family	a	®	VH336756
c. Dishwasher	Ø	®	VH336759
d. Your own bedroom	a	®	VH336762
e. A desktop or laptop computer (including Chromebooks) that you can use	Ø	®	VH591976
f. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	Ø	®	VH271110
g. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	Ø	(8)	VH271112

VH354591

VH271104

- 5. How often do you use the Internet for homework at home?
 - Never
 - (B) About once or twice a month
 - © About once or twice a week
 - Almost every day
 Almost every day
 - © Every day

- 6. How many days were you absent from school in the last month?
 - None
 None
 - 1 or 2 days
 - © 3 or 4 days
 - © 5 to 10 days
 - More than 10 days

7. How often do you talk about things you have studied in school with someone in your family?

- Never or hardly ever
- [®] Once every few weeks
- About once a week
- ◎ Two or three times a week
- © Every day

VH271144

VH240189

8. Do any of the following people live in your home? Select **one** answer choice on each row.

	Yes	No	
a. Mother	A	®	VH271145
b. Stepmother	æ	®	VH271146
c. Foster mother or other female legal guardian	Ø	®	VH271147
d. Father	A	®	VH271148
e. Stepfather	A	ഀ	VH271149
f. Foster father or other male legal guardian	æ	®	VH271150

- **9.** In this school year, how often did you use a **laptop or desktop computer** (including Chromebooks) during your classes at school?
 - Never
 Never
 - In some classes
 - \bigcirc In about half of the classes
 - In more than half of the classes
 - © In all or almost all classes

- **10.** In this school year, how often did you use a **tablet** (for example, Surface Pro, iPad, Kindle Fire) during your classes at school?
 - Never
 - In some classes
 - © In about half of the classes
 - $\ensuremath{\textcircled{}}$ $\ensuremath{\textcircled{}}$ In more than half of the classes
 - © In all or almost all classes
- **11.** How much does each of the following statements describe a person like you? Select **one** answer choice on each row.

	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Very much like me	
a. I finish whatever I begin.	Ø	ß	O	Ø	Ē	VH271338
b. I try very hard even after making mistakes.	۵	®	O	Ø	Ē	VH271339
c. I keep working hard even when I feel like quitting.	Ø	ß	Ø	Ø	Ē	VH271342
d. I keep trying to improve myself, even when it takes a long time to get there.	Ø	ß	Ø	Ø	¢	VH271345

24

	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Very much like me	
a. I finish whatever I begin.	A	ß	0	Ø	Ē	VH733142
b. I try very hard even after making mistakes.	A	ß	0	0	Ē	VH733143
c. I keep working hard even when I feel like quitting.	Ø	ß	Ø	0	e	VH733145
d. I keep trying to improve myself, even when it takes a long time to get there.	8	®	Ø	Θ	Ð	VH733144

12. How much does each of the following statements describe you? Select **one** answer choice on each row.

13. In this school year, how often have you done each of the following? Select **one** answer choice on each row.

VH271367

		Never or hardly ever	Less than half of the time	About half of the time	More than half of the time	All or almost all of the time	
a.	I started working on assignments right away rather than waiting until the last minute.	Ø	®	Ø	Ø	¢	VH271370
b.	I paid attention and resisted distractions.	۵	B	0	Ø	Ē	VH271372
c.	I stayed on task without reminders from my teacher.	Ø	ß	Ø	Ø	¢	VH271374
d.	I paid attention in class even when I was not interested.	Ø	ß	O	Ø	Ē	VH271375

		Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Very much like me	
a.	I like complex problems more than easy problems.	Ø	ß	O	Ø	Ē	VH271750
b.	I like activities that challenge my thinking abilities.	Ø	ß	Ø	0	Ē	VH271752
c.	I enjoy situations where I will have to think about something.	0	®	Q	Ø	¢	VH271753
d.	I enjoy thinking about new solutions to problems.	Ø	ß	Ö	Ø	Ē	VH271756

14. How much does each of the following statements describe a person like you? Select **one** answer choice on each row.

15. How much does each of the following statements describe you? Select **one** answer choice on each row.

		Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Very much like me	
a.	I like complex problems more than easy problems.	Ø	®	O	Ø	Ē	VH733150
b.	I like activities that challenge my thinking abilities.	Ø	®	O	Ø	Ē	VH733151
c.	I enjoy situations where I will have to think about something.	0	(6)	Ø	Ø	¢	VH733155
d.	I enjoy thinking about new solutions to problems.	۵	®	©	Ø	Ē	VH733154

	Never or hardly ever	Less than half of the time	About half of the time	More than half of the time	All or almost all of the time	
a. I felt awkward and out of place at school.	A	B	0	Ø	Ē	VH271942
b. I felt happy at school.	A	®	Ô	O	Ē	VH271944
c. I felt that I learned something that I can use in my daily life.	Ø	B	Q	Ø	Ē	VH336903

16. In this school year, how often have you felt any of the following ways about your school? Select **one** answer choice on each row.

Accnum	Grade	Grade 4 OMB PDF Sequence Number	Number of Grade 4 booklets item appears in	Grade 4 booklets item appears in
VH240387	4, 8, 12	01_00	6	1, 2, 3, 4, 5, 6
VH240388	4, 8, 12	02_00	6	1, 2, 3, 4, 5, 6
VH240186	4, 8, 12	03_00	6	1, 2, 3, 4, 5, 6
VH271104	4, 8, 12	04_00	6	1, 2, 3, 4, 5, 6
VH271105	4, 8, 12	04_01	6	1, 2, 3, 4, 5, 6
VH336756	4, 8, 12	0402	6	1, 2, 3, 4, 5, 6
VH336759	4, 8, 12	04_03	6	1, 2, 3, 4, 5, 6
VH336762	4, 8, 12	04_04	6	1, 2, 3, 4, 5, 6
VH591976	4, 8, 12	04_05	6	1, 2, 3, 4, 5, 6
VH271110	4, 8, 12	04_06	6	1, 2, 3, 4, 5, 6
VH271112	4, 8, 12	04_07	6	1, 2, 3, 4, 5, 6
VH240190	4, 8, 12	06_00	6	1, 2, 3, 4, 5, 6
VH271144	4, 8, 12	08_00	6	1, 2, 3, 4, 5, 6
VH271145	4, 8, 12	08_01	6	1, 2, 3, 4, 5, 6
VH271146	4, 8, 12	08_02	6	1, 2, 3, 4, 5, 6
VH271147	4, 8, 12	08_03	6	1, 2, 3, 4, 5, 6
VH271148	4, 8, 12	08_04	6	1, 2, 3, 4, 5, 6
VH271149	4, 8, 12	08_05	6	1, 2, 3, 4, 5, 6
VH271150	4, 8, 12	08_06	6	1, 2, 3, 4, 5, 6
VH591969	4, 8, 12	09_00	6	1, 2, 3, 4, 5, 6
VH271276	4, 8, 12	10_00	6	1, 2, 3, 4, 5, 6
VH354591	4, 8, 12	05_00	6	1, 2, 3, 4, 5, 6
VH271337	4, 8, 12	11_00	3	1, 2, 6
VH271338	4, 8, 12	11_01	3	1, 2, 6
VH271339	4, 8, 12	11_02	3	1, 2, 6
VH271342	4, 8, 12	11_03	3	1, 2, 6
VH271345	4, 8, 12	11_04	3	1, 2, 6
VH271367	4, 8, 12	13_00	6	1, 2, 3, 4, 5, 6
VH271370	4, 8, 12	13_01	6	1, 2, 3, 4, 5, 6

Accnum	Grade	Grade 4 OMB PDFSequence Number	Number of Grade 4 booklets item appears in	Grade 4 booklets item appears in
VH271372	4, 8, 12	13_02	6	1, 2, 3, 4, 5, 6
VH271374	4, 8, 12	13_03	6	1, 2, 3, 4, 5, 6
VH271375	4, 8, 12	13_04	6	1, 2, 3, 4, 5, 6
VH271749	4, 8, 12	14_00	3	1, 2, 6
VH271750	4, 8, 12	14_01	3	1, 2, 6
VH271752	4, 8, 12	14_02	3	1, 2, 6
VH271753	4, 8, 12	14_03	3	1, 2, 6
VH271756	4, 8, 12	14_04	3	1, 2, 6
VH271934	4, 8, 12	16_00	6	1, 2, 3, 4, 5, 6
VH271942	4, 8, 12	16_01	6	1, 2, 3, 4, 5, 6
VH271944	4, 8, 12	16_02	6	1, 2, 3, 4, 5, 6
VH336903	4, 8, 12	16_03	6	1, 2, 3, 4, 5, 6
VH240189	4, 8, 12	07_00	6	1, 2, 3, 4, 5, 6
VH733141	4, 8, 12	12_00	3	3, 4, 5
VH733142	4, 8, 12	12_01	3	3, 4, 5
VH733143	4, 8, 12	12_02	3	3, 4, 5
VH733145	4, 8, 12	12_03	3	3, 4, 5
VH733144	4, 8, 12	12_04	3	3, 4, 5
VH733149	4, 8, 12	15_00	3	3, 4, 5
VH733150	4, 8, 12	15_01	3	3, 4, 5
VH733151	4, 8, 12	15_02	3	3, 4, 5
VH733155	4, 8, 12	15_03	3	3, 4, 5
VH733154	4, 8, 12	15_04	3	3, 4, 5

Appendix I-1d: 2018 Operational and Pilot Grade 8 Core

In the operational assessments, all questions will be administered to all students.

In the pilot assessments, not all questions presented in the questionnaire will be administered to an individual student. Rather, students will receive a subset of the questions, as indicated in the spiral map presented after the questionnaire.

- 1. Are you Hispanic or Latino? Select one or more answer choices.
 - No, I am not Hispanic or Latino.
 - (1) Yes, I am Mexican, Mexican American, or Chicano.
 - © Yes, I am Puerto Rican or Puerto Rican American.
 - Yes, I am Cuban or Cuban American.
 - © Yes, I am from some other Hispanic or Latino background.

VH240387

- 2. Which of the following best describes you? Select one or more answer choices.
 - White
 White
 - Black or African American
 - © Asian
 - American Indian or Alaska Native
 - © Native Hawaiian or other Pacific Islander
- 3. About how many books are there in your home?
 - ᢙ Few (0−10)
 - (B) Enough to fill one shelf (11–25)
 - © Enough to fill one bookcase (26–100)
 - © Enough to fill several bookcases (more than 100)

4. Do you have any of the following in your home? Select **one** answer choice on each row.

	Yes	No	
a. Access to the Internet	Ø	®	VH271105
b. Clothes dryer just for your family	Ø	®	VH336756
c. Dishwasher	۵	®	VH336759
d. Your own bedroom	۵	®	VH336762
e. A desktop or laptop computer (including Chromebooks) that you can use	۲	®	VH591976
f. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	۲	®	VH271110
g. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	Ø	(8)	VH271112

VH354591

VH271104

- 5. How often do you use the Internet for homework at home?
 - Never
 - (B) About once or twice a month
 - © About once or twice a week
 - Almost every day
 Almost every day
 - © Every day

- 6. How many days were you absent from school in the last month?
 - None
 None
 - 1 or 2 days
 - © 3 or 4 days
 - © 5 to 10 days
 - More than 10 days

- 7. How often do you talk about things you have studied in school with someone in your family?
 - Never or hardly ever
 - [®] Once every few weeks
 - © About once a week
 - Two or three times a week
 - © Every day
- 8. How far in school did your mother go?
 - (A) She did not finish high school.
 - [®] She graduated from high school.
 - © She had some education after high school.
 - She graduated from college.
 - I don't know.
- 9. How far in school did your father go?
 - He did not finish high school.
 - [®] He graduated from high school.
 - © He had some education after high school.
 - He graduated from college.
 - I don't know.

VH240192

VH240189

10. Does your mother work?

(A) Yes

[®] No

© I don't know.

11. Does **your father** work?

(A) Yes

B No
 No

© I don't know.

VH336776

12. Do any of the following people live in your home? Select **one** answer choice on each row.

	Yes	No	
a. Mother	A	®	VH271145
b. Stepmother	A	®	VH271146
c. Foster mother or other female legal guardian	Ø	®	VH271147
d. Father	æ	®	VH271148
e. Stepfather	A	®	VH271149
f. Foster father or other male legal guardian	A	®	VH271150

VH591969

VH271144

- **13.** In this school year, how often did you use a **laptop or desktop computer** (including Chromebooks) during your classes at school?
 - (A) Never
 - In some classes
 - © In about half of the classes
 - \odot In more than half of the classes
 - © In all or almost all classes

- **14.** In this school year, how often did you use a **tablet** (for example, Surface Pro, iPad, Kindle Fire) during your classes at school?
 - Never
 - In some classes
 - © In about half of the classes
 - \bigcirc In more than half of the classes
 - © In all or almost all classes

	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Very much like me	
a. I finish whatever I begin.	۵	®	O	D	Ē	VH271338
b. I try very hard even after making mistakes.	Ø	®	O	D	Ē	VH271339
c. I keep working hard even when I feel like quitting.	Ø	ß	O	Ø	Ē	VH271342
d. I keep trying to improve myself, even when it takes a long time to get there.	æ	®	Ø	Ø	Ē	VH271345

15. How much does each of the following statements describe a person like you? Select **one** answer choice on each row.

16. How much does each of the following statements describe you? Select **one** answer choice on each row.

		Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Very much like me	
a.	I finish whatever I begin.	Ø	ß	0	0	Ē	VH733142
b.	I try very hard even after making mistakes.	Ø	B	0	0	Ē	VH733143
c.	I keep working hard even when I feel like quitting.	(9)	ß	Ø	0	Ē	VH733145
d.	I keep trying to improve myself, even when it takes a long time to get there.	(9	©	0	0	¢	VH733144

	1				1	I 1
	Never or hardly ever	Less than half of the time	About half of the time	More than half of the time	All or almost all of the time	
a. I started working on assignments right away rather than waiting until the last minute.	æ	6	Q	Ø	C	VH271370
b. I paid attention and resisted distractions.	Ø	®	O	Ð	Ē	VH271372
c. I stayed on task without reminders from my teacher.	Ø	®	O	Ø	¢	VH271374
d. I paid attention in class even when I was not interested.	Ø	®	O	Ø	Ē	VH271375

17. In this school year, how often have you done each of the following? Select **one** answer choice on each row.

18. How much does each of the following statements describe a person like you? Select **one** answer choice on each row.

		Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Very much like me	
a.	I like complex problems more than easy problems.	Ø	ß	O	0	Ē	VH271750
b.	I like activities that challenge my thinking abilities.	0	ß	Ø	0	Ē	VH271752
c.	I enjoy situations where I will have to think about something.	0	®	Ø	Ø	C	VH271753
d.	I enjoy thinking about new solutions to problems.	Ø	®	Ø	Ø	Ē	VH271756

VH271367

	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Very much like me	
a. I like complex problems more than easy problems.	Ø	©	O	D	Ē	VH733150
b. I like activities that challenge my thinking abilities.	۵	®	O	Ø	Ē	VH733151
c. I enjoy situations where I will have to think about something.	Ø	®	O	Ø	Ē	VH733155
d. I enjoy thinking about new solutions to problems.	ß	B	O	D	Ē	VH733154

19. How much does each of the following statements describe you? Select **one** answer choice on each row.

20. In this school year, how often have you felt any of the following ways about your school? Select **one** answer choice on each row.

	Never or hardly ever	Less than half of the time	About half of the time	More than half of the time	All or almost all of the time	
a. I felt awkward and out of place at school.	Ø	ß	0	0	Ē	VH271942
b. I felt happy at school.	Ø	®	Ô	O	Ē	VH271944
c. I felt that I learned something that I can use in my daily life.	Ø	ß	Ø	0	Ē	VH336903

8

VH254028

21. Write the ZIP code of your home address in the box.



VH733149

Accnum	Grade	Grade 8 OMB PDF Sequence Number	Number of Grade 8 booklets item appears in	Grade 8 booklets item appears in
VH240387	4, 8, 12	01_00	6	1, 2, 3, 4, 5, 6
VH240388	4, 8, 12	02_00	6	1, 2, 3, 4, 5, 6
VH240186	4, 8, 12	03_00	6	1, 2, 3, 4, 5, 6
VH271104	4, 8, 12	04_00	6	1, 2, 3, 4, 5, 6
VH271105	4, 8, 12	04_01	6	1, 2, 3, 4, 5, 6
VH336756	4, 8, 12	04_02	6	1, 2, 3, 4, 5, 6
VH336759	4, 8, 12	04_03	6	1, 2, 3, 4, 5, 6
VH336762	4, 8, 12	04_04	6	1, 2, 3, 4, 5, 6
VH591976	4, 8, 12	04_05	6	1, 2, 3, 4, 5, 6
VH271110	4, 8, 12	04_06	6	1, 2, 3, 4, 5, 6
VH271112	4, 8, 12	04_07	6	1, 2, 3, 4, 5, 6
VH240190	4, 8, 12	06_00	6	1, 2, 3, 4, 5, 6
VH240192	8, 12	08_00	6	1, 2, 3, 4, 5, 6
VH240193	8, 12	09_00	6	1, 2, 3, 4, 5, 6
VH271144	4, 8, 12	12_00	6	1, 2, 3, 4, 5, 6
VH271145	4, 8, 12	12_01	6	1, 2, 3, 4, 5, 6
VH271146	4, 8, 12	12_02	6	1, 2, 3, 4, 5, 6
VH271147	4, 8, 12	12_03	6	1, 2, 3, 4, 5, 6
VH271148	4, 8, 12	12_04	6	1, 2, 3, 4, 5, 6
VH271149	4, 8, 12	12_05	6	1, 2, 3, 4, 5, 6
VH271150	4, 8, 12	12_06	6	1, 2, 3, 4, 5, 6
VH254028	8, 12	21_00	6	1, 2, 3, 4, 5, 6
VH336776	8, 12	10_00	6	1, 2, 3, 4, 5, 6
VH336779	8, 12	11_00	6	1, 2, 3, 4, 5, 6
VH591969	4, 8, 12	13_00	6	1, 2, 3, 4, 5, 6
VH271276	4, 8, 12	14_00	6	1, 2, 3, 4, 5, 6
VH354591	4, 8, 12	05_00	6	1, 2, 3, 4, 5, 6
VH271337	4, 8, 12	15_00	3	1, 2, 6
VH271338	4, 8, 12	15_01	3	1, 2, 6

Accnum	Grade	Grade 8 OMB PDFSequence Number	Number of Grade 8 booklets item appears in	Grade 8 booklets item appears in
VH271339	4, 8, 12	15_02	3	1, 2, 6
VH271342	4, 8, 12	15_03	3	1, 2, 6
VH271345	4, 8, 12	15 04	3	1, 2, 6
VH271367	4, 8, 12		6	1, 2, 3, 4, 5, 6
VH271370	4, 8, 12		6	1, 2, 3, 4, 5, 6
VH271372	4, 8, 12	17_02	6	1, 2, 3, 4, 5, 6
VH271374	4, 8, 12	17_03	6	1, 2, 3, 4, 5, 6
VH271375	4, 8, 12	17_04	6	1, 2, 3, 4, 5, 6
VH271749	4, 8, 12	18_00	3	1, 2, 6
VH271750	4, 8, 12	18_01	3	1, 2, 6
VH271752	4, 8, 12	18_02	3	1, 2, 6
VH271753	4, 8, 12	18_03	3	1, 2, 6
VH271756	4, 8, 12	18_04	3	1, 2, 6
VH271934	4, 8, 12	20_00	6	1, 2, 3, 4, 5, 6
VH271942	4, 8, 12	20_01	6	1, 2, 3, 4, 5, 6
VH271944	4, 8, 12	20_02	6	1, 2, 3, 4, 5, 6
VH336903	4, 8, 12	20_03	6	1, 2, 3, 4, 5, 6
VH240189	4, 8, 12	07_00	6	1, 2, 3, 4, 5, 6
VH733141	4, 8, 12	16_00	3	3, 4, 5
VH733142	4, 8, 12	16_01	3	3, 4, 5
VH733143	4, 8, 12	16_02	3	3, 4, 5
VH733145	4, 8, 12	16_03	3	3, 4, 5
VH733144	4, 8, 12	16_04	3	3, 4, 5
VH733149	4, 8, 12	19_00	3	3, 4, 5
VH733150	4, 8, 12	19_01	3	3, 4, 5
VH733151	4, 8, 12	19_02	3	3, 4, 5
VH733155	4, 8, 12	19_03	3	3, 4, 5
VH733154	4, 8, 12	19_04	3	3, 4, 5

Appendix I-1e: Pilot Grade 12 Core

In the pilot assessments, not all questions presented in the questionnaire will be administered to an individual student. Rather, students will receive a subset of the questions, as indicated in the spiral map presented after the questionnaire.

Note that pilot items are labeled as 2019 pilot which indicates that they will be piloted in 2018 for operational use in 2019.

- 1. Are you Hispanic or Latino? Select one or more answer choices.

 - (1) Yes, I am Mexican, Mexican American, or Chicano.
 - © Yes, I am Puerto Rican or Puerto Rican American.
 - D Yes, I am Cuban or Cuban American.
 - © Yes, I am from some other Hispanic or Latino background.

- 2. Which of the following best describes you? Select one or more answer choices.
 - White
 White
 - Black or African American
 - © Asian
 - American Indian or Alaska Native
 - © Native Hawaiian or other Pacific Islander
- 3. About how many books are there in your home?
 - ᢙ Few (0−10)
 - Enough to fill one shelf (11–25)
 - © Enough to fill one bookcase (26–100)
 - © Enough to fill several bookcases (more than 100)

VH240387

4. Do you have any of the following in your home? Select **one** answer choice on each row.

	Yes	No	
a. Access to the Internet	Ø	®	VH271105
b. Clothes dryer just for your family	a	®	VH336756
c. Dishwasher	Ø	®	VH336759
d. Your own bedroom	a	®	VH336762
e. A desktop or laptop computer (including Chromebooks) that you can use	Ø	®	VH591976
f. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	Ø	®	VH271110
g. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	۵	6	VH271112

VH354591

VH271104

- 5. How often do you use the Internet for homework at home?
 - Never
 Never
 - (B) About once or twice a month
 - © About once or twice a week
 - Almost every day
 Almost every day
 - © Every day

- 6. How many days were you absent from school in the last month?
 - None
 None
 - 1 or 2 days
 - © 3 or 4 days
 - © 5 to 10 days
 - More than 10 days

- 7. How often do you talk about things you have studied in school with someone in your family?
 - Never or hardly ever
 - [®] Once every few weeks
 - © About once a week
 - ◎ Two or three times a week
 - © Every day
- 8. How far in school did your mother go?
 - (D) She did not finish high school.
 - [®] She graduated from high school.
 - © She had some education after high school.
 - She graduated from college.
 - I don't know.
- 9. How far in school did your father go?
 - He did not finish high school.
 - [®] He graduated from high school.
 - © He had some education after high school.
 - He graduated from college.
 - I don't know.

VH240192

VH240189

10. Does **your mother** work?

- (A) Yes
- B No
- © I don't know.

11. What does **your mother** do for work? Select the choice that most closely describes what she does at work.

[®] Accountant	⁽²⁾ Farmer	④ Religious worker
@ Artist	③ Firefighter	A Repair technician
Athlete	Grounds worker	Salesperson
Our Carpenter	③ Health aide	46 Scientist
Cashier	The second secon	④ Secretary
© Cleaner	1 Housekeeper	Security guard
1 Clerk	Ianitor	49 Server
College professor	② Lawyer	Social worker
Construction worker	③ Librarian	Software developer
Ook	⁽³⁾ Manager	Stocker
① Customer service	③ Marketing	Supervisor
Day care worker	③ Mechanic	3 Surgeon
③ Dental hygienist	3 Medical technician	5 Surveyor
Dentist	③ Military	5 Taxi driver
1 Designer	3 Miner	5 Teacher
⁽¹⁾ Doctor	③ Nurse	Iherapist 🕲
② Education administrator	③ Office support	③ Transportation
⁽¹⁾ Electrician	③ Painter	Truck driver
⁽¹⁾ Engineer	④ Pharmacist	O Veterinarian
<u> </u>	4 Police	1 Writer
② Executive	④ Receptionist	⁽³⁾ Other (Please specify):
② Factory worker		

5

12. Does your father work?

(A) Yes

B No
 No

© I don't know.

13. What does **your father** do for work? Select the choice that most closely describes what he does at work.

⁽¹⁾ Accountant	²² Farmer	④ Religious worker
@ Artist	3 Firefighter	④ Repair technician
③ Athlete	Grounds worker	Salesperson
1 Carpenter	③ Health aide	46 Scientist
I Cashier	The Helper	④ Secretary
© Cleaner	1 Housekeeper	Security guard
1 Clerk	Ianitor	49 Server
College professor	② Lawyer	Social worker
Construction worker	③ Librarian	Software developer
Cook	⁽³⁾ Manager	D Stocker
⁽¹⁾ Customer service	③ Marketing	Supervisor
Day care worker	③ Mechanic	3 Surgeon
③ Dental hygienist	39 Medical technician	5 Surveyor
⁽¹⁾ Dentist	③ Military	5 Taxi driver
1 Designer	3 Miner	5 Teacher
⁽¹⁵⁾ Doctor	③ Nurse	Iherapist 🕲
① Education administrator	③ Office support	⁽³⁾ Transportation
Blectrician	③ Painter	Truck driver
	④ Pharmacist	⁽¹⁾ Veterinarian
EngineerExecutive	Police	1 Writer
	④ Receptionist	⁽³⁾ Other (Please specify):
② Factory worker		

	Yes	No	
a. Mother	۲	®	VH271145
b. Stepmother	۵	®	VH271146
c. Foster mother or other female legal guardian	Ø	®	VH271147
d. Father	۲	®	VH271148
e. Stepfather	æ	®	VH271149
f. Foster father or other male legal guardian	A state of the	®	VH271150

14. Do any of the following people live in your home? Select **one** answer choice on each row.

VH591969

- **15.** In this school year, how often did you use a **laptop or desktop computer** (including Chromebooks) during your classes at school?
 - Never
 - In some classes
 - © In about half of the classes
 - \odot In more than half of the classes
 - © In all or almost all classes

- Never
 Never
- In some classes
- © In about half of the classes
- In more than half of the classes
- © In all or almost all classes

one answer choice on each row.

17. How much does each of the following statements describe a person like you? Select

		Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Very much like me	
a.	I finish whatever I begin.	۵	B	O	Ø	Ē	VH271338
b.	I try very hard even after making mistakes.	۵	B	O	Ø	Ē	VH271339
c.	I keep working hard even when I feel like quitting.	Ø	6	Ø	0	Ē	VH271342
d.	I keep trying to improve myself, even when it takes a long time to get there.	Ø	₿	Ø	Θ	Θ	VH271345

50

VH271276

	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Very much like me	
a. I finish whatever I begin.	A	B	O	Ø	Ē	VH733142
b. I try very hard even after making mistakes.	A	B	O	Ø	Ē	VH733143
c. I keep working hard even when I feel like quitting.	Ø	₿	Ø	0	¢	VH733145
d. I keep trying to improve myself, even when it takes a long time to get there.	8	₿	Ø	Ø	Ē	VH733144

18. How much does each of the following statements describe you? Select **one** answer choice on each row.

19. In this school year, how often have you done each of the following? Select **one** answer choice on each row.

VH271367

		Never or hardly ever	Less than half of the time	About half of the time	More than half of the time	All or almost all of the time	
a.	I started working on assignments right away rather than waiting until the last minute.	Ø	®	Ø	Ø	¢	VH271370
b.	I paid attention and resisted distractions.	۵	B	0	Ø	Ē	VH271372
с.	I stayed on task without reminders from my teacher.	Ø	B	Ø	Ø	¢	VH271374
d.	I paid attention in class even when I was not interested.	Ø	ß	O	Ø	Ē	VH271375

	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Very much like me	
a. I like complex problems more than easy problems.	Ø	®	O	Ø	Ē	VH271750
b. I like activities that challenge my thinking abilities.	æ	ß	O	Ø	Ē	VH271752
c. I enjoy situations where I will have to think about something.	æ	(16)	O	Ø	¢	VH271753
d. I enjoy thinking about new solutions to problems.	Ø	®	C	©	Ē	VH271756

20. How much does each of the following statements describe a person like you? Select **one** answer choice on each row.

21. How much does each of the following statements describe you? Select **one** answer choice on each row.

		Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Very much like me	
a.	I like complex problems more than easy problems.	Ø	ß	O	Ø	Ē	VH733150
b.	I like activities that challenge my thinking abilities.	Ø	ß	O	Ø	¢	VH733151
c.	I enjoy situations where I will have to think about something.	Ø	₿	Ø	Ø	¢	VH733155
d.	I enjoy thinking about new solutions to problems.	Ø	B	O	Ø	Ē	VH733154

VH733149

52

	Never or hardly ever	Less than half of the time	About half of the time	More than half of the time	All or almost all of the time	
a. I felt awkward and out of place at school.	A	B	O	Ø	Ē	VH271942
b. I felt happy at school.	A	®	Ô	O	Ē	VH271944
c. I felt that I learned something that I can use in my daily life.	Ø	B	Ø	Ø	Ē	VH336903

22. In this school year, how often have you felt any of the following ways about your school? Select **one** answer choice on each row.

	Yes	No	
a. Taken the SAT or ACT College Entrance Exams	Ø	®	VH740702
b. Submitted the Free Application for Federal Student Aid (FAFSA)	Ø	®	VH740703
c. Applied to a 2-year college	A	®	VH740704
d. Been accepted to a 2-year college	A	®	VH740705
e. Applied to a 4-year college	A	®	VH740706
f. Been accepted to a 4-year college	A	®	VH740708
g. Applied to a certificate or diploma program at a school that provides occupational training (such as electrician, beautician, mechanic, computer programmer, etc.)	Ø	®	VH740709
h. Been accepted to a technical training program	Ø	®	VH740710
i. Talked with a military recruiter	A	®	VH740711
j. Enlisted in the military	A	®	VH740712
k. Applied for a full-time job	A	®	VH740713
1. Been interviewed for a full-time job	A	B	VH740714

13

23. During this school year, which of the following have you done? Select **one** answer on each row.

VH240194

VH740697

- 24. Which of the following best describes your high school program?
 - (General
 - Academic or college preparatory
 - © Vocational or technical

25. Write the ZIP code of your home address in the box.



Accnum	Grade	Grade 12 OMB PDF Sequence Number	Number of Grade 12 booklets item appears in	Grade 12 booklets item appears in
VH240387	4, 8, 12	01_00	6	1, 2, 3, 4, 5, 6
VH240388	4, 8, 12	02_00	6	1, 2, 3, 4, 5, 6
VH240186	4, 8, 12	03_00	6	1, 2, 3, 4, 5, 6
VH271104	4, 8, 12	04_00	6	1, 2, 3, 4, 5, 6
VH271105	4, 8, 12	04_01	6	1, 2, 3, 4, 5, 6
VH336756	4, 8, 12	04_02	6	1, 2, 3, 4, 5, 6
VH336759	4, 8, 12	04_03	6	1, 2, 3, 4, 5, 6
VH336762	4, 8, 12	04_04	6	1, 2, 3, 4, 5, 6
VH591976	4, 8, 12	04_05	6	1, 2, 3, 4, 5, 6
VH271110	4, 8, 12	04_06	6	1, 2, 3, 4, 5, 6
VH271112	4, 8, 12	04_07	6	1, 2, 3, 4, 5, 6
VH240190	4, 8, 12	06_00	6	1, 2, 3, 4, 5, 6
VH240192	8, 12	08_00	6	1, 2, 3, 4, 5, 6
VH240193	8, 12	09_00	6	1, 2, 3, 4, 5, 6
VH271144	4, 8, 12	14_00	6	1, 2, 3, 4, 5, 6
VH271145	4, 8, 12	14_01	6	1, 2, 3, 4, 5, 6
VH271146	4, 8, 12	14_02	6	1, 2, 3, 4, 5, 6
VH271147	4, 8, 12	14_03	6	1, 2, 3, 4, 5, 6
VH271148	4, 8, 12	14_04	6	1, 2, 3, 4, 5, 6
VH271149	4, 8, 12	14_05	6	1, 2, 3, 4, 5, 6
VH271150	4, 8, 12	14_06	6	1, 2, 3, 4, 5, 6
VH254028	8, 12	25_00	6	1, 2, 3, 4, 5, 6
VH740697	12	23_00	6	1, 2, 3, 4, 5, 6
VH740702	12	23_01	6	1, 2, 3, 4, 5, 6
VH740703	12	23_02	6	1, 2, 3, 4, 5, 6
VH740704	12	23_03	6	1, 2, 3, 4, 5, 6
VH740705	12	23_04	6	1, 2, 3, 4, 5, 6
VH740706	12	23_05	6	1, 2, 3, 4, 5, 6
VH740708	12	23_06	6	1, 2, 3, 4, 5, 6

Accnum	Grade	Grade 12 OMB PDFSequence Number	Number of Grade 12 booklets item appears in	Grade 12 booklets item appears in
VH740709	12	23 07	6	1, 2, 3, 4, 5, 6
VH740710	12	23_08	6	1, 2, 3, 4, 5, 6
VH740711	12	23_09	6	1, 2, 3, 4, 5, 6
VH740712	12	23_10	6	1, 2, 3, 4, 5, 6
VH740713	12	23_11	6	1, 2, 3, 4, 5, 6
VH740714	12	23_12	6	1, 2, 3, 4, 5, 6
VH240194	12	24_00	6	1, 2, 3, 4, 5, 6
VH336776	8, 12	10_00	6	1, 2, 3, 4, 5, 6
VH336779	8, 12	12_00	6	1, 2, 3, 4, 5, 6
VH336878	12	11_00	6	1, 2, 3, 4, 5, 6
VH336885	12	13_00	6	1, 2, 3, 4, 5, 6
VH591969	4, 8, 12	15_00	6	1, 2, 3, 4, 5, 6
VH271276	4, 8, 12	16_00	6	1, 2, 3, 4, 5, 6
VH354591	4, 8, 12	05_00	6	1, 2, 3, 4, 5, 6
VH271337	4, 8, 12	17_00	3	1, 2, 6
VH271338	4, 8, 12	17_01	3	1, 2, 6
VH271339	4, 8, 12	17_02	3	1, 2, 6
VH271342	4, 8, 12	17_03	3	1, 2, 6
VH271345	4, 8, 12	17_04	3	1, 2, 6
VH271367	4, 8, 12	19_00	6	1, 2, 3, 4, 5, 6
VH271370	4, 8, 12	19_01	6	1, 2, 3, 4, 5, 6
VH271372	4, 8, 12	19_02	6	1, 2, 3, 4, 5, 6
VH271374	4, 8, 12	19_03	6	1, 2, 3, 4, 5, 6
VH271375	4, 8, 12	19_04	6	1, 2, 3, 4, 5, 6
VH271749	4, 8, 12	20_00	3	1, 2, 6
VH271750	4, 8, 12	20_01	3	1, 2, 6
VH271752	4, 8, 12	20_02	3	1, 2, 6
VH271753	4, 8, 12	20_03	3	1, 2, 6
VH271756	4, 8, 12	20_04	3	1, 2, 6

Accnum	Grade	Grade 12 OMB PDFSequence Number	Number of Grade 12 booklets item appears in	Grade 12 booklets item appears in
VH271934	4, 8, 12	22_00	6	1, 2, 3, 4, 5, 6
VH271942	4, 8, 12	22_01	6	1, 2, 3, 4, 5, 6
VH271944	4, 8, 12	22_02	6	1, 2, 3, 4, 5, 6
VH336903	4, 8, 12	22_03	6	1, 2, 3, 4, 5, 6
VH240189	4, 8, 12	07_00	6	1, 2, 3, 4, 5, 6
VH733141	4, 8, 12	18_00	3	3, 4, 5
VH733142	4, 8, 12	18_01	3	3, 4, 5
VH733143	4, 8, 12	18_02	3	3, 4, 5
VH733145	4, 8, 12	18_03	3	3, 4, 5
VH733144	4, 8, 12	18_04	3	3, 4, 5
VH733149	4, 8, 12	21_00	3	3, 4, 5
VH733150	4, 8, 12	21_01	3	3, 4, 5
VH733151	4, 8, 12	21_02	3	3, 4, 5
VH733155	4, 8, 12	22_03	3	3, 4, 5
VH733154	4, 8, 12	22_04	3	3, 4, 5

Appendix I-1f: Pilot Grade 12 Reading

Note that pilot items are labeled as 2019 pilot which indicates that they will be piloted in 2018 for operational use in 2019.

	Never	Once	2 or 3 times	4 or 5 times	6 or more times	
a. Made a presentation to the class about something that you have read	Ø	(8)	O	Φ	Ē	VH731530
b. Done a project about something that you have read (for example, written a play, created a website)	۵	ß	C	Ø	Ē	VH731529

1. For your English/language arts class so far this year, how many times have you done each of the following? Select **one** answer choice on each row.

2. For your English/language arts class this year, how often do you do each of the following? Select **one** answer choice on each row.

	Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	
a. Have a class discussion about something that the whole class has read	۲	®	O	Ø	C	VH332888
b. Work in pairs or small groups to talk about something that we have read	۲	®	Ø	Ø	©	VH652035
c. Discuss different interpretations of what we have read	Ø	®	Ö	Ø	Ē	VH652037

VH332887

VH260254

VH333074

3. In your English/language arts class this year, when reading a story, article, or other passage, how often does your teacher ask you to do the following? Select **one** answer choice on each row.

	Never or hardly ever	Once in a while	Sometimes	Often	Always or almost always	
a. Evaluate the main evidence in a persuasive/argument passage	Ø	6	O	Ø	¢	VH260256
b. Analyze the author's organization of information in a passage	۵	6	O	Ø	¢	VH333142
c. Critique the author's craft or technique	A	®	©	Ø	Ē	VH333144

4. In your English/language arts class this year, when reading a story, article, or other passage, how often does your teacher ask you to do the following? Select **one** answer choice on each row.

		Never or hardly ever	Once in a while	Sometimes	Often	Always or almost always	
a.	Summarize the passage	Ø	B	O	Ø	Ē	VH333075
b.	Interpret the meaning of the passage	Ø	ෂ	0	0	Θ	VH333076
c.	Question the motives or feelings of the characters	Ø	ß	Ø	0	Ē	VH333079
d.	Identify the main ideas of the passage	Ø	ß	0	0	Ð	VH333078
e.	Identify the themes of the passage	Ø	ß	0	0	Ē	VH333094
f.	Analyze two or more texts on the same topic	Ø	ß	O	Ø	Ē	VH333077

- **5.** For school this year, how often have you been asked to write long answers (several sentences or paragraphs) to questions on tests or assignments that involved reading?
 - Never
 - Once
 Once
 - © Two or three times
 - D Four or five times
 - © More than five times

VH598636

- **6.** On a typical school day, how much time do you use a computer or other digital device to do your **English/language arts** schoolwork?
 - (D) Less than 30 minutes
 - About 30 minutes
 About 30 minutes
 - © About 1 hour
 - About 2 hours
 About 2 hours
 - C About 3 hours
 - © 4 or more hours

- 7. In this school year, how often do you borrow reading materials (such as books or magazines) from your classroom library, school library, or media center?
 - Never
 Never
 - [®] About once or twice a year
 - © About once or twice a month
 - About once or twice a week
 - © Every day or almost every day

		I definitely can't	I probably can't	Maybe	I probably can	I definitely can	
а.	Figure out the meaning of a word you don't know by using other words in the text	0	®	O	Ø	¢	VH260848
b.	Explain the meaning of something you have read	Ø	®	O	Ø	Ē	VH260849
c.	Figure out the main idea of a text	Ø	®	O	Ø	Ē	VH260851
d.	Find text in a reading passage to help you answer a question on a test	0	(8)	Ø	۵	¢	VH260859
e.	Recognize when you don't understand something you are reading	8	®	©	©	Ē	VH260861

8. Do you think you would be able to do each of the following when reading? Select **one** answer choice on each row.

		I definitely can't	I probably can't	Maybe	I probably can	I definitely can	
a.	Recognize the difference between fact and opinion in a text	Ø	ß	Q	Ø	¢	VH260863
b.	Judge the reliability of sources (for example, how a website might be biased or inaccurate)	۵	®	Ø	Ø	Ē	VH260857
c.	Critique an author's craft or technique	Ø	B	0	D	Ē	VH260866
d.	Use evidence from a text to support my answer	Ø	®	Ø	Ø	Ē	VH616841
e.	Identify the author's perspective in a persuasive text	Ø	B	O	Ø	Ē	VH260868

9. Do you think you would be able to do each of the following when reading? Select **one** answer choice on each row.

		Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me	
a.	I want other students to think I am good at reading.	Ø	ß	O	Ø	Ē	VH260928
b.	I want to show others that my English/ language arts schoolwork is easy for me.	Ø	ഀ	Ø	Ø	¢	VH260929
c.	I want to look smart in comparison to the other students in my English/language arts class.	0	ഀ	Ø	Ø	¢	VH260930
d.	I want to learn as much as possible in my English/language arts class.	0	B	0	Ø	¢	VH260931
e.	I want to become a better reader this year.	A	B	0	D	Ē	VH260934
f.	I want to understand as much as I can in my English/language arts class.	۵	ß	Q	Ø	Ē	VH260938

10. How much does each of the following statements describe a person like you? Select **one** answer choice on each row.

11. How much does each of the following statements describe a person like you? Select

Quite a bit Not at all A little bit Somewhat **Exactly like** like me like me like me like me me a. Reading is one of my Ø VH260271 B O D Đ favorite activities. b. I like talking about books with other A VH260272 B O \bigcirc Ð people. c. I think reading is A B O \bigcirc Ð VH260275 important. d. I enjoy going to a A B O \bigcirc Ð VH260277 bookstore or a library.

VH598686

VH589132

12. Besides doing homework, how much time do you spend reading **outside of school**?

Less than 30 minutes a day

one answer choice on each row.

- About 30 minutes a day
- © About 1 hour a day
- About 2 hours a day
 About 2 hours a day
- © About 3 hours a day
- © 4 or more hours a day

VH332820

13. How often do you receive help from a tutor, family member, or friend with English/language arts **outside of school or after school**?

Never
 Never

- About once or twice a year
- © About once or twice a month
- About once or twice a week
- © Every day or almost every day

	Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	
a. Stories or novels	A	®	Ô	O	Ē	VH261066
b. Poems	A	®	Ô	O	Ē	VH261067
c. Plays	A	B	Ô	O	Ē	VH261068
d. Biographies	A	B	O	O	Ē	VH617043
e. Comic books	A	®	Ô	O	Ē	VH261070
f. Magazines	A	B	Ô	O	Ē	VH261071
g. E-mails	A	®	Ô	O	Ē	VH261074
h. Text messages	A	B	©	O	Ē	VH261075

14. How often do you typically read each of the following **outside of school** (print or online)? Select **one** answer choice on each row.

VH260906

15. How often do you typically do each of the following things **outside of school**? Select **one** answer choice on each row.

		Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	
a.	Talk about books (print or online) with other people	۵	ß	O	0	¢	VH260907
b.	Go to my local library to borrow books (print or online)	(3)	B	0	0	¢	VH260911
c.	Read blogs	A	®	Ô	O	Ē	VH260913
d.	Use social media (for example, Facebook, Twitter, Instagram)	(2)	B	0	0	¢	VH333261
e.	Help friends with reading homework	$\textcircled{\begin{tabular}{c} \hline \hline \\ $	B	0	0	Ē	VH260917

2019 Pilot Grade 12 Reading Student Items

- Set Yes, I am enrolled in or have taken Advanced Placement (AP) English Language and Composition.
- (B) Yes, I am enrolled in or have taken Advanced Placement (AP) English Literature and Composition.
- © No, I have never taken an Advanced Placement (AP) English/language arts course.

VH240006

VH240398

- 17. Are you currently enrolled in or have you taken the International Baccalaureate[®] (IB) Language A1 course?
 - (D) Yes
 - B No
 No

- **18.** Are you currently enrolled in or have you taken any online English/language arts courses for high school or college credit?
 - (D) Yes
 - B No
 No

Appendix I-1g: Pilot Grade 12 Mathematics

In the pilot assessments, not all questions presented in the questionnaire will be administered to an individual student. Rather, students will receive a subset of the questions, as indicated in the spiral map presented after the questionnaire.

Note that pilot items are labeled as 2019 pilot which indicates that they will be piloted in 2018 for operational use in 2019.

1. Which courses have you taken from eighth grade to the present? If you have taken a course more than once, give the **most recent** year you took it. INCLUDE courses taken in summer school, but DO NOT INCLUDE topics that were only taught as part of a longer course (such as trigonometry taught in drafting class or computer programming taught in Algebra II). Select **one** answer choice on each row.

		I have never taken this course.	I took this course in or before Grade 8.	I took this course in Grade 9.	I took this course in Grade 10.	I took this course in Grade 11.	I took this course in Grade 12.	
а.	Basic or general mathematics course	Ø	ß	O	Ø	Ē	Ð	VH240820
b.	Tech-prep mathematics, business mathematics, consumer mathematics, or other applied mathematics course	Ø	ſ	©	Ø	Ē	¢	VH240844
c.	Introduction to algebra or pre-algebra course	Ø	ß	O	Ø	Ē	Ð	VH240822
d.	Algebra I course	Ø	®	©	D	Ē	Ð	VH240823
e.	,	Ø	®	©	D	Ē	Ð	VH240824
f.	Algebra II course, with or without trigonometry	Ø	ß	O	Ø	Ē	Ē	VH240825
g.	Trigonometry (as a separate course)	æ	B	O	Ø	Ē	Ē	VH240826
h.	Pre-calculus course (also called introductory analysis)	6	6	O	Ø	Ē	¢	VH240833
i.	Integrated mathematics 1 (first year of a multi-year course)	Ø	ſ	O	Ø	Ē	¢	VH240841
j.	Integrated mathematics 2 (second year of a multi-year course)	Ø	®	O	Ø	Ē	Ē	VH240842
k.	Integrated mathematics 3 (third year of a multi-year course)	Ø	ß	Ō	Ø	Ē	Ð	VH240843

2019 Pilot Grade 12 Mathematics Student Items

		I have never taken this course.	I took this course in or before Grade 8.	I took this course in Grade 9.	I took this course in Grade 10.	I took this course in Grade 11.	I took this course in Grade 12.	
1.	Integrated mathematics 4 (fourth year of a multi-year course)	Ø	ß	Ø	Ø	¢	Ð	VH240821
m.	Probability or statistics course	A	ß	O	D	Ē	Ē	VH240836
n.	Calculus course	A	®	©	D	Ē	Ð	VH240829
0.	Computer programming course (such as C++, Visual Basic, etc.)	0	ഀ	Ø	Ø	©	©	VH240835
p.	Other mathematics course (specify):	8	B	O	D	Ē	Ē	VH240834

VH250444

- **2.** Are you currently enrolled in or have you taken any of the following Advanced Placement (AP[®]) courses? Select **all** that apply.
 - (D) Yes, I am enrolled in or have taken Advanced Placement (AP) Calculus AB.
 - (Yes, I am enrolled in or have taken Advanced Placement (AP) Calculus BC.
 - © Yes, I am enrolled in or have taken Advanced Placement (AP) Statistics.
 - ◎ No, I have not taken any of the courses listed above.

- **3.** Are you currently enrolled in or have you taken an International Baccalaureate[®] (IB) mathematics course?
 - (A) Yes
 - B No
 No

- Yes
 Yes
- B No

VH240050

VH240049

- **5.** Was there a mathematics course that you would have liked to have taken this school year but did not take?
 - Tes, but my school does not offer the course.
 - [®] Yes, but the course was full.
 - © Yes, but I did not have the necessary prerequisites.
 - ☑ Yes, but my schedule was full.
 - © No, there was no other course that I wanted to take.

VH240763

6. Please indicate how much you DISAGREE or AGREE with the following statements. Select **one** answer choice on each row.

	Strongly disagree	Disagree	Agree	Strongly agree	
a. Math is one of my favorite subjects.	A	ß	O	Ø	VH240768
b. I take mathematics because it will help me in the future.	0	ß	Ø	Ø	VH240770
c. I take mathematics to meet my high school graduation requirements.	0	ß	Ø	Ø	VH240767

	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me	
a. I enjoy doing math.	A	B	Ô	D	Ē	VH267479
b. I look forward to my math class.	A	®	©	D	Ē	VH267481
c. I am interested in the things I learn in math.	Ø	®	O	Ø	Ē	VH617324
d. I think making an effort in math is worthwhile.	A	6	O	Ø	Ē	VH267485
e. I think math will help me even when I am not in school.	Ø	®	Ø	Ø	Ē	VH267486
f. I think it is important to do well in math.	Ø	®	O	Ø	Ē	VH267487
g. I take mathematics because it will help me in the future.	A	6	Ø	Ø	Ē	VH651872
h. I take mathematics to meet my high school graduation requirements.	Ø	®	Ø	Ø	Ē	VH651874

7. How much does each of the following statements describe a person like you? Select **one** answer choice on each row.

		Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me	
a.	I enjoy doing math.	Ø	®	0	O	Ē	VH731853
b.	I look forward to my math class.	8	B	0	Ø	Ē	VH731854
c.	I am interested in the things I learn in math.	(2)	B	0	Ø	Ē	VH731858
d.	I think making an effort in math is worthwhile.	(9)	ß	Ø	Ø	Ē	VH731855
e.	I think math will help me even when I am not in school.	0	®	Ø	Ø	Ē	VH731860
f.	I think it is important to do well in math.	8	B	0	Ø	Ē	VH731857
g.	I take mathematics because it will help me in the future.	(9)	ß	Ø	Ø	¢	VH731859
h.	I take mathematics to meet my high school graduation requirements.	0	₿	O	Ø	Ē	VH731856

8. How much does each of the following statements describe you? Select **one** answer choice on each row.

VH240051

- 9. Are you currently taking a mathematics course?
 - (A) Yes
 - B No
 No

- **10.** For school this year, how often have you been asked to write long answers (several sentences or paragraphs) to questions on tests or assignments that involved math?
 - Never
 - Once
 Once
 - © Two or three times
 - Four or five times
 - © More than five times

- **11.** For school this year, how often do you work in pairs or small groups to talk about something that you have done in math?
 - Never
 Never
 - [®] About once or twice a year
 - © About once or twice a month
 - About once or twice a week
 - © Every day or almost every day

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- **12.** How often do you use a computer or other digital device (excluding handheld calculators) for math **at school**?
 - Never
 Never
 - About once or twice a year
 - © About once or twice a month
 - About once or twice a week
 - © Every day or almost every day

13. How often do you receive help or tutoring with math **outside of school or after school**?

- Never
 Never
- [®] About once or twice a year
- © About once or twice a month
- About once or twice a week
- © Every day or almost every day

VH266808

14. In your math class this year, how often have you used the following types of calculators? Select **one** answer choice on each row.

	Never or hardly ever	Less than half of the time	About half of the time	More than half of the time	All or almost all of the time	
a. Basic calculator	A	®	©	0	Ē	VH266809
b. Graphing calculator	A	B	©	0	Ē	VH266810

2019 Pilot Grade 12 Mathematics Student Items

	Never or hardly ever	Less than half of the time	About half of the time	More than half of the time	All or almost all of the time	
a. My teacher used computers or other digital devices to show us how to work through math problems.	0	®	0	Ø	©	VH267416
b. I used the Internet for my math work.	Ø	®	0	Ø	Ē	VH267417
c. My teacher used computers or other digital devices when teaching math to my class.	0	®	Ø	Ø	©	VH588077
d. My teacher required us to use computers or other digital devices to complete math assignments.	0	®	Õ	Ø	Ē	VH267419

15. This school year, how often did the following things happen in your math class? Select **one** answer choice on each row.

- **16.** In this school year, how often have you used a computer or other digital device (excluding handheld calculators) to complete your math assignments?
 - Never
 Never
 - [®] About once or twice a year
 - © About once or twice a month
 - About once or twice a week
 - © Every day or almost every day

- VH336037
- 17. In this school year, how often have you used a computer or other digital device (excluding handheld calculators) to look online for resources for help with your math assignments?
 - Never
 Never
 - About once or twice a year
 - © About once or twice a month
 - About once or twice a week
 - © Every day or almost every day

2019 Pilot Grade 12 Mathematics Student Items

- **18.** In this school year, how often have you used a computer or other digital device (excluding handheld calculators) to take an online practice test?
 - Never
 - Once
 Once
 - © Two or three times
 - Four or five times
 - © More than five times

VH268936

VH589204

- **19.** How often do you use math in everyday life **outside of school**?
 - Never
 Never
 - About once or twice a year
 - © About once or twice a month
 - About once or twice a week
 - © Every day or almost every day
- 20. How often do you participate in each of the following activities outside of school? Select one answer choice on each row.

	Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	
a. Talk about math problems with your friends	Ø	ß	O	Ø	Ē	VH268946
b. Program computers	A	®	Ô	O	Ē	VH268949
c. Play an instrument and read music	$\textcircled{\begin{tabular}{c} \hline \hline \\ $	ß	O	Ø	Ē	VH268961
d. Go to websites for help with your math homework	Ø	ß	O	Ø	¢	VH268962

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21. Have you ever helped your friends with their math homework?

- Yes
 Yes
- B No

VH269037

VH336085

22. Over the past seven days, how many days have you helped your friends with their math homework? Enter the number of days.

VH589192

23. Thinking about math, do you think that you would be able to do each of the following? Do not actually solve the problems. Select **one** answer choice on each row.

		I definitely can't	I probably can't	Maybe	I probably can	I definitely can	
a.	Estimate the weight of 5 apples using pounds (lbs.)	0	ß	Ø	Ø	Ē	VH267674
b.	Divide 42 stickers among 6 students	A	B	0	Ø	Ē	VH617317
c.	Determine a 20 percent tip of a 67-dollar restaurant dinner bill	(9)	ß	Ø	Ø	¢	VH267679
d.	Describe the properties shared by every isosceles right triangle	0	B	Ø	Ø	¢	VH267681
e.	Find the amount of carpet needed to cover a rectangular floor if you know its length and width	0	®	Ø	Ø	¢	VH267682
f.	Know when to take a turkey out of the oven if it goes in at 10:00 A.M. and it takes 3 hours and 45 minutes to cook	Ø	℗	O	Ø	¢	VH267683

Not at all A little bit Somewhat Quite a bit Exactly like like me like me like me like me me a. I want other students to think I am good at VH269049 Ø B © D Ð math. b. I want to show others that my math VH269050 A B O \odot Ð schoolwork is easy for me. c. I want to look smart in comparison to the VH269053 A B O \odot Ð other students in my math class. d. I want to learn as much as possible in VH269059 A B \bigcirc \bigcirc Ð my math class. e. I want to become better in math this A B O \bigcirc Ð VH269056 year. f. I want to understand as much as I can in my VH269060 A B O \odot Ð math class.

24. How much does each of the following statements describe a person like you? Select **one** answer choice on each row.

		Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me	
a.	I want other students to think I am good at math.	8	®	Ø	Ø	Ē	VH731866
b.	I want to show others that my math schoolwork is easy for me.	0	®	Ø	Ø	¢	VH731867
c.	I want to look smart in comparison to the other students in my math class.	0	(9)	0	0	¢	VH731868
d.	I want to learn as much as possible in my math class.	(9	6	0	0	E	VH731872
e.	I want to become better in math this year.	(9	6	0	0	Ē	VH731870
f.	I want to understand as much as I can in my math class.	8	B	O	Ø	Ē	VH731873

25. How much does each of the following statements describe you? Select **one** answer choice on each row.

		Enjoy not at	Enjoy a	Enjoy	Enjoy quite		
		all	little bit	somewhat	a bit	Enjoy a lot	
a.	Addition, subtraction, multiplication, and division	Ø	B	Q	Θ	Ē	VH267499
b.	Finding areas of shapes and figures	A	ß	0	Ø	Θ	VH267501
c.	Solving for probabilities and events (for example, card, coin, marble, and spinner problems)	Ø	℗	0	Ø	©	VH267502
d.	Solving equations or simplifying expressions	Ø	B	Ø	0	Ē	VH267503
e.	Constructing and building different types of graphs (for example, bar graph, line graph, or box and whisker plots)	Ø	₿	0	Φ	©	VH267504
f.	Working with geometric figures like rectangles and squares	Ø	B	Q	Ø	Ē	VH267505

26. How much do you enjoy solving each of the following types of math problems? Select **one** answer choice on each row.

VH460329

- **27.** How often do you play digital games (for example, apps, video games, or computer games) **outside of school** that involve math?
 - Never
 - [®] About once or twice a year
 - © About once or twice a month
 - About once or twice a week
 - © Every day or almost every day

28. How often do you use a computer, tablet, smartphone, or gaming console **outside of school** to play **educational games** that involve math?

- Never
- About once or twice a year
- © About once or twice a month
- About once or twice a week
- © Every day or almost every day

- **29.** How often do you use a computer, tablet, smartphone, or gaming console **outside of school** to play **popular games** that involve math?
 - Never
 - [®] About once or twice a year
 - © About once or twice a month
 - About once or twice a week
 - © Every day or almost every day

2019 Pilot Grade 12 Mathematics Student Items

		I definitely can't	I probably can't	Maybe	I probably can	I definitely can	
a.	Create an expression that represents the average number of miles you run in a week if you run 100 miles in <i>w</i> weeks	0	ഀ	O	Ø	¢	VH460383
b.	Create an expression to show how old you will be in <i>n</i> years if you are 8 years old today	0	ഀ	Ø	0	¢	VH460386
c.	Create an expression that shows the number of wheels on <i>n</i> wagons if each wagon has 4 wheels	0	₿	Ø	Ø	Ē	VH460389
d.	Explain how you know the number of books you can buy if you know the price of each book and you have \$35	0	ഀ	Ø	0	Ē	VH460391

30. Thinking about math, do you think that you would be able to do each of the following? Do not actually solve the problems. Select **one** answer choice on each row.

		I definitely can't	I probably can't	Maybe	I probably can	I definitely can	
a.	Decide if your classmate's math work is correct	Ø	®	Ø	Ø	Ē	VH460398
b.	Give an example to show that a math statement is false	Ø	ß	Ø	Ø	Ē	VH460399
c.	Explain to your classmate how you solved a math problem	Ø	ß	Ø	Ø	Ē	VH460910
d.	Use correct mathematical words and symbols to communicate ideas about math	Ø	®	Ø	Ø	¢	VH460900
e.	Use correct mathematical words and symbols when showing your work	Ø	®	Ø	Ø	¢	VH460902
f.	Use definitions of geometric shapes to support an argument	Ø	®	O	Ø	Ē	VH460912

31. Thinking about math, do you think that you would be able to do each of the following? Select **one** answer choice on each row.

- 32. Have you ever participated in a math study group outside of school?
 - Yes
 Yes
 - B No

33. Over the past seven days, how many days have you participated in a math study group **outside of school**? Enter the number of days.

VH460401

VH460925

- 34. Have you ever participated in a math study group at school?
 - (A) Yes
 - B No
 No
- **35.** Over the past seven days, how many days have you participated in a math study group **at school**? Enter the number of days.

VH460923

Spiral Map Grade 12 Mathematics

Accnum	Grade	Grade 12 OMB PDF Sequence Number	Number of Grade 12 booklets item appears in	Grade 12 booklets item appears in
VH240819	12	01_00	4	2,3,5,6
VH240820	12	01_01	4	2,3,5,6
VH240844	12	01_02	4	2,3,5,6
VH240822	12	01_03	4	2,3,5,6
VH240823	12	01_04	4	2,3,5,6
VH240824	12	01_05	4	2,3,5,6
VH240825	12	01_06	4	2,3,5,6
VH240826	12	01_07	4	2,3,5,6
VH240833	12	01_08	4	2,3,5,6
VH240841	12	01_09	4	2,3,5,6
VH240842	12	01_10	4	2,3,5,6
VH240843	12	01_11	4	2,3,5,6
VH240821	12	01_12	4	2,3,5,6
VH240836	12	01_13	4	2,3,5,6
VH240829	12	01_14	4	2,3,5,6
VH240835	12	01_15	4	2,3,5,6
VH240834	12	01_16	4	2,3,5,6
VH250444	12	02_00	4	2,3,5,6
VH240048	12	03_00	4	2,3,5,6
VH240049	12	04_00	4	2,3,5,6
VH240050	12	05_00	4	2,3,5,6
VH240763	12	06_00	2	3,4
VH240768	12	06_01	2	3,4
VH240770	12	06_02	2	3,4
VH240767	12	06_03	2	3,4
VH267478	12	07_00	2	1, 2
VH267479	12	07_01	2	1, 2
VH267481	12	07_02	2	1, 2
VH617324	12	07_03	2	1, 2

Accnum	Grade	Grade 12 OMB PDFSequence Number	Number of Grade 12 booklets item appears in	Grade 12 booklets item appears in
VH267485	12	07_04	2	1,2
VH267486	12	07_05	2	1,2
VH267487	12	07_06	2	1,2
VH651872	12	07_07	2	1,2
VH651874	12	07_08	2	1,2
VH731852	12	08_00	2	5,6
VH731853	12	08_01	2	5,6
VH731854	12	08_02	2	5,6
VH731858	12	08_03	2	5,6
VH731855	12	08_04	2	5,6
VH731860	12	08_05	2	5,6
VH731857	12	08_06	2	5,6
VH731859	12	08_07	2	5,6
VH731856	12	08_08	2	5,6
VH240051	12	09_00	4	1,3,4,6
VH350115	12	10_00	4	1,3,4,6
VH350116	12	11_00	4	1,3,4,6
VH266754	12	12_00	4	1,3,4,6
VH336233	12	13_00	4	1,2,4,5
VH266808	12	14_00	4	1,3,4,6
VH266809	12	14_01	4	1,3,4,6
VH266810	12	14_02	4	1,3,4,6
VH589166	12	15_00	4	1,3,4,6
VH267416	12	15_01	4	1,3,4,6
VH267417	12	15_02	4	1,3,4,6
VH588077	12	15_03	4	1,3,4,6
VH267419	12	15_04	4	1,3,4,6
VH336036	12	16_00	4	1,3,4,6
VH336037	12	17_00	4	1,3,4,6
VH617207	12	18_00	4	1,3,4,6

Accnum	Grade	Grade 12 OMB PDF Sequence Number	Number of Grade 12 booklets item appears in	Grade 12 booklets item appears in
VH268936	12	19_00	4	2,3,5,6
VH589204	12	20_00	4	1,2,4,5
VH268946	12	20_01	4	1,2,4,5
VH268949	12	20_02	4	1,2,4,5
VH268961	12	20_03	4	1,2,4,5
VH268962	12	20_04	4	1,2,4,5
VH336085	12	21_00	4	1,2,4,5
VH269037	12	22_00	4	1,2,4,5
VH589192	12	23_00	4	1,2,4,5
VH267674	12	23_01	4	1,2,4,5
VH617317	12	23_02	4	1,2,4,5
VH267679	12	23_03	4	1,2,4,5
VH267681	12	23_04	4	1,2,4,5
VH267682	12	23_05	4	1,2,4,5
VH267683	12	23_06	4	1,2,4,5
VH269048	12	24_00	2	1,2
VH269049	12	24_01	2	1,2
VH269050	12	24_02	2	1,2
VH269053	12	24_03	2	1,2
VH269059	12	24_04	2	1,2
VH269056	12	24_05	2	1,2
VH269060	12	24_06	2	1,2
VH731865	12	25_00	4	3,4,5,6
VH731866	12	25_01	4	3,4,5,6
VH731867	12	25_02	4	3,4,5,6
VH731868	12	25_03	4	3,4,5,6
VH731872	12	25_04	4	3,4,5,6
VH731870	12	25_05	4	3,4,5,6
VH731873	12	25_06	4	3,4,5,6
VH267498	12	26_00	4	1,2,4,5

Spiral Map Grade 12 Mathematics

Accnum	Grade	Grade 12 OMB PDF Sequence Number	Number of Grade 12 booklets item appears in	Grade 12 booklets item appears in
VH267499	12	26_01	4	1,2,4,5
VH267501	12	26_02	4	1,2,4,5
VH267502	12	26_03	4	1,2,4,5
VH267503	12	26_04	4	1,2,4,5
VH267504	12	26_05	4	1,2,4,5
VH267505	12	26_06	4	1,2,4,5
VH460329	12	27_00	4	2,3,5,6
VH460337	12	28_00	4	2,3,5,6
VH460341	12	29_00	4	2,3,5,6
VH613511	12	30_00	4	1,3,4,6
VH460383	12	30_01	4	1,3,4,6
VH460386	12	30_02	4	1,3,4,6
VH460389	12	30_03	4	1,3,4,6
VH460391	12	30_04	4	1,3,4,6
VH613523	12	31_00	4	1,3,4,6
VH460398	12	31_01	4	1,3,4,6
VH460399	12	31_02	4	1,3,4,6
VH460910	12	31_03	4	1,3,4,6
VH460900	12	31_04	4	1,3,4,6
VH460902	12	31_05	4	1,3,4,6
VH460912	12	31_06	4	1,3,4,6
VH460923	12	32_00	4	1,2,4,5
VH460925	12	33_00	4	1,2,4,5
VH460401	12	34_00	4	1,2,4,5
VH460877	12	35_00	4	1,2,4,5

Appendix I-1h: Summary of Revisions Grade 4, 8, and 12 Science

Grade 4 Science Student					
Previous item	2018 item	D/A/ R/NC+	Rationale		
 vC315287 1. In this school year, how often have you done activities or projects in science? ② Never or hardly ever ③ Once every few weeks ③ About once a week ④ Two or three times a week ④ Every day or almost every day (2015 Grade 4) 	N/A	D	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped.		
 Never or hardly ever Once every few weeks About once a week Two or three times a week Every day or almost every day 	N/A	D	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped.		
 vc315249 11. In this school year, how often have you discussed news stories about science? Never or hardly ever Once every few weeks About once a week Two or three times a week Every day or almost every day 	N/A	D	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped.		

Grade 4 Science Student				
Previous item	2018 item	D/A/ R/NC+	Rationale	
(2015 Grade 4)				
vc315270 12. In this school year, how often have you worked with other students on a science activity or project?	N/A	D	To keep student burden low and add new content consistent with	
Never or hardly ever			prior	
Once every few weeks			development for other subjects	
© About once a week			(2017 Math,	
• Two or three times a week			Reading,	
© Every day or almost every day			Writing), this item was	
(2015 Grade 4)			dropped.	
 vcai5259 13. In this school year, how often have you presented what you learned about science to your class? Once every few weeks Once every few weeks Once or three times a week Every day or almost every day (2015 Grade 4) 	N/A	D	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped.	
 vc315256 14. In this school year, how often have you taken a science test or quiz? Never or hardly ever Once every few weeks About once a week Two or three times a week Every day or almost every day 	N/A	D	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped.	

⁺ This column indicates whether the item was dropped (D), added (A), revised (R), or there was no change (NC).

Previous item	2018 item	D/A/ R/NC+	Rationale
(2015 Grade 4)			
 VC315288 15. In this school year, how often have you talked about measurements or results from your science activities or projects? O Never or hardly ever Once every few weeks O About once a week Two or three times a week Every day or almost every day (2015 Grade 4) 	N/A	D	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped.
 I7. In this school year, how often have you been asked to write long answers (several sentences or paragraphs) to questions on tests or assignments for science? Never or hardly ever Once every few weeks About once a week Two or three times a week Every day or almost every day (2015 Grade 4) 	N/A	D	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped.

	Grade 4 Science Student				
Previous item	2018 item	D/A/ R/NC+	Rationale		
 ^{VH157884} 19. In this school year, how often have you used your school library or media center resources for science (such as books, magazines, computers, and audio-video materials)? Once every few weeks Once every few weeks About once a week Two or three times a week Every day or almost every day (2015 Grade 4) 	N/A	D	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped.		
20. In this school year, how often have you used computers for science?	N/A	D	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped.		

Grade 4 Science Student					
Previous item	2018 item	D/A/ R/NC+	Rationale		
 VC315410 21. How often do you do science activities that are not for schoolwork? Mever or hardly ever Sometimes Often Always or almost always (2015 Grade 4) 	N/A	D	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped.		
25. How much do you like studying science?	N/A	D	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped.		
vc315302 26. How often do you feel science is one of your favorite subjects? (a) Never or hardly ever (a) Sometimes (c) Often (c) Always or almost always (2015 Grade 4)	N/A	D	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped.		

	Grade 4 Science Student				
Previous item	2018 item	D/A/ R/NC+	Rationale		
 VF640468 27. In this school year, have you participated in a science club, a science fair, or a science competition? ③ Yes ③ No (2015 Grade 4) 	N/A	D	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped.		
VF633304 28. In this school year, have you visited a museum, zoo, or aquarium to learn about science on a school trip?	N/A	D	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped.		
 VF633276 29. In this school year, have you visited a museum, zoo, or aquarium to learn about science that was not on a school trip? Tes Yes No (2015 Grade 4) 	N/A	D	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped.		

	Grade 4 Science Student				
Previous item	2018 item	D/A/ R/NC+	Rationale		
 30. How hard was this test compared to most other tests you have taken this year in school? ② Easier than other tests ③ About as hard as other tests ③ Harder than other tests ③ Much harder than other tests (2015 Grade 4) 	N/A	NC	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped.		
 31. How hard did you try on this test compared to how hard you tried on most other tests you have taken this year in school? Not as hard as on other tests About as hard as on other tests Harder than on other tests Much harder than on other tests (2015 Grade 4) 	N/A	NC	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped.		

⁺ This column indicates whether the item was dropped (D), added (A), revised (R), or there was no change (NC).

	Grade 4 Science Student					
Previous item	2018 item	D/A/ R/NC+	Rationale			
 32. How important was it to you to do well on this test? Not very important Somewhat important Important Very important (2015 Grade 4) 	 1. How important was it to you to do well on this test? 9. Not very important 9. Very important 9. Very important 	VIELONOF NC	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped from the Science questionnaire and moved to the Core questionnaire (Appendix F1-b). Please note that the purpose of debrief items is not to address an issue identified in the issues paper but to assess students' experience of taking the assessment. As such, this item is not classified by issue.			

	Grade 4 Science Student		
Previous item	2018 item	D/A/ R/NC+	Rationale
 In this school year, how often have you learned about living things (for example. plants. animals. bacteria)? Never or hardly ever Once in a while Sometimes Often Very often (2017 Grade 4) 	 In your science class this year, how often have you learned about living things (for example, plants, animals, or bacteria)? Never or hardly ever Once in a while Sometimes Often Very often Issue: Organization of Instruction	INSTRUCT R	The following revisions were made: (1) In the set leader "In this school year" was changed to "In your science class this year" to create consistency across items and (2) "or" was added to the examples per editorial review.
 vwwwr 2. In this school year, how often have you learned about electricity (for example, circuits, batteries, and light bulbs)? © Never or hardly ever © Once in a while © Sometimes © Often © Very often (2017 Grade 4) 	 In your science class this year, how often have you learned about electricity (for example, circuits, batteries, or light bulbs)? Never or hardly ever Once in a while Sometimes Often Very often Issue: Organization of Instruction	R	The following revisions were made: (1) In the set leader "In this school year" was changed to "In your science class this year" to create consistency across items and (2) "and" was replaced with "or" in the examples per editorial review.

⁺ This column indicates whether the item was dropped (D), added (A), revised (R), or there was no change (NC).

Grade 4 Science Student					
Previous item	2018 item	D/A/ R/NC+	Rationale		
 3. In this school year, how often have you learned about chemicals (for example, mixing sugar or salt in water)? Never or hardly ever Once in a while Sometimes Often Very often (2017 Grade 4) 	 3. In your science class this year, how often have you learned about chemicals (for example, vinegar, baking soda, or hydrogen peroxide)? Never or hardly ever Once in a while Sometimes Often Very often Issue: Organization of Instruction 	R	The following revisions were made: (1) In the set leader "In this school year" was changed to "In your science class this year" to create consistency across items, and (2) the example content was revised based on cognitive interview results.		
 vanoation 4. In this school year, how often have you learned about rocks or minerals (for example, looking at different rocks)? Aver or hardly ever Once in a while Sometimes Often Very often (2017 Grade 4) 	 In your science class this year, how often have you learned about rocks or minerals (for example, diamond, iron, or lava rock)? Never or hardly ever Once in a while Sometimes Often Very often Issue: Organization of Instruction 	R	The following revisions were made: (1) In the set leader "In this school year" was changed to "In your science class this year" to create consistency across items, and (2) the example content was revised based on cognitive interview results and stakeholder feedback.		

	Grade 4 Science Student					
Previous item	2018 item		D/A/ R/NC+	Rationale		
 5. In this school year, how often have you done science activities using scientific tools (for example, microscopes, thermometers, or weighing scales)? © Never or hardly ever © Once in a while © Sometimes © Often © Always or almost always (2017 Grade 4) 	 5. In your science class this year, how often have you done science activities using scientific tools (for example, microscopes, thermometers, beakers, or weighing scales)? © Never or hardly ever © Once in a while © Sometimes © Often © Always or almost always Issue: Organization of Instruction	VIESOA	R	The following revisions were made: (1) In the set leader "In this school year" was changed to "In your science class this year" to create consistency across items, and (2) the example content was revised based on cognitive interview results.		
 once in a while Sometimes Always or almost always (2017 Grade 4) 	 6. In your science class this year, how often have you read from a science textbook (print or digital)? A Never or hardly ever Once in a while Sometimes Often Always or almost always Issue: Organization of Instruction	VIRSION	R	The following revisions were made: (1) In the set leader "In this school year" was changed to "In your science class this year" to create consistency across items, and (2) "(print or digital)" was added based on stakeholder feedback.		

	Grade 4 Science Student		
Previous item	2018 item	D/A/ R/NC+	Rationale
 7. In this school year, how often have you learned about science topics on the Internet? Never or hardly ever Once in a while Sometimes Often Always or almost always (2017 Grade 4) 	 viewees 7. In your science class this year, how often have you learned about science topics on the Internet? ③ Never or hardly ever ④ Once in a while ③ Sometimes ④ Often ④ Always or almost always Issue: Organization of Instruction 	R	The following revision was made: In the set leader "In this school year" was changed to "In your science class this year" to create consistency across items.
 8. In this school year, how often have you watched a short video clip, movie, or video about science topics? O Never or hardly ever Once in a while Sometimes Often Always or almost always (2017 Grade 4) 	 Never or hardly ever Once in a while Sometimes Often Always or almost always 	³⁷ R	The following revision was made: In the set leader "In this school year" was changed to "In your science class this year" to create consistency across items.
 9. In this school year, how often have you been asked to write about science topics? Never or hardly ever Once in a while Sometimes Often Always or almost always (2017 Grade 4) 	VH00000 vucose 9. In your science class this year, how often have you been asked to write about science topics (for example, a science journal, lab report, or essay)? Never or hardly ever Once in a while Sometimes Often Always or almost always Issue: Organization of Instruction	R	The following revisions were made: (1) In the set leader "In this school year" was changed to "In your science class this year" to create consistency across items, and (2) example content was added based on stakeholder feedback.

Previous item							2018 item							D/A/ R/NC+	Rationale		
10. Thinking about scient following? Select one	ce, do you thir answer choice	nk that you wo e on each row.	ould be able t	to do each of th	ie	VH632266	 Thinking about science, do you think that you would be able to do each of the following activities? Select one answer choice on each row. 								The following revision was		
	I definitely can't	I probably can't	Maybe	I probably can	I definitely can			I definitely can't	I probably can't	Maybe	I probably can	I definitely can		made: Sub			
a. Describe the different procedures for heating or cooling a sample of	0	®	0	Θ	θ	VH638868	 a. Describe different ways to heat or cool water 	0	Ð	Ø	۵	Ð	VH638868		"a", "b", "c", "d "e", and "g"		
water b. Design a model showing how the length of a vibrating string affects the	۵	©	0	©	¢	VH638870	b. Describe how the length of a vibrating string affects the sound it makes	Ø	Ð	Q	Θ	Ð	VH638870		were revised based on		
motion of the waves that are produced							c. Design an experiment to show how sunlight affects the growth	Θ	θ	Q	0	Ð	VH638872		editorial, expert committee, and		
c. Design an experiment to show how sunlight affects the growth of a type of plant	(4)	Ð	0	Ð	Θ	VH638872	d. Use examples to show how one living thing								stakeholder feedback.		
d. Use evidence to show how one organism has	@	0	0	Ø	Ø	VH638875	has helped another to survive	0	Φ	O	0	Ð	VH638875		Teeuback.		
helped the other to survive	6	(B)	9	Q	Ð	V1000075	 Describe what would happen to the number 	1					1001				
e. Use a food chain to show how the removal of one animal affects another	0	®	Ø	Ð	Φ	VH638876	of frogs at a pond if all the insects were removed from the pond	0	θ	©	Ø	Φ	VH638876				
f. Decide which tool to use if you want to measure wind speed	0	¢	0	Ø	Ū	VH638883	f. Decide which tool to use if you want to measure wind speed	0	Ð	©	Ø	Ð	VH638883				
g. Predict the season based on a graph that shows the 30-day average temperature	۵	®	0	Ø	Φ	VH638885	g. Describe why the weather in the summer is different than in the winter	0	θ	©	Ð	Φ	VH638885				

Previous item	2018 item								Rationale						
11. How much does each one answer choice on	14. How much does each choice on each row.	R	The following revisions were												
	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me			Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me			made: (1) In the
 I want other students to think I am good at science. 	0	۲	©	Ø	٢	VH639080	 a. I want other students to think I am good at science. 	Θ	Ð	Ø	θ	Ð	VH639080		set leader "describe a
I want to show others that science schoolwork is easy for me.	Θ	۲	٥	Ø	¢	VH639082	b. I want to show others that science schoolwork is easy for me.	٩	Ð	Ø	θ	Φ	VI1639082		person like you was changed to
c. I want to look smart in comparison to the other students in my science class.	۵	6	©	۵	٢	VH639084	c. I want to look smart in comparison to the other students in my science class.	Θ	Ð	Q	θ	Φ	VH639084		"describe you" based on expe
d. I want to learn as much as possible in my science class.	۵	۲	©	Ø	©	VH639086	d. I want to get better science grades than most other students in my class.	θ	Ð	ø	Θ	Φ	VH732329		committee and stakeholder
e. I want to become better in science this year.	0	6	Θ	۵	©	VH639087	e. I want to learn as much as possible in my science class.	۵	Ð	©.	Φ	Φ	VH639086		feedback, and (2) subitems "d
I want to understand as much as I can in my science class.	0	•	Θ	۵	Θ	VH639089	f. I want to become better in science this year.	٩	Ð	٥	Ð	Φ	VH639087		and "h" were
2017 Grade 4)							g. I want to understand as much as I can in my science class.	0	Ð	©.	Ð	Ð	V11639082		consistency
							 I want to master a lot of new science skills in my class. 	8	Ð	©	Ð	Φ	VH782380		across subjects (2018 social
							Issue: Student Fa	actors							studies).

revious item							2018 item								Rationale	
	 How often do you participate in each of the following activities outside of school? Select one answer choice on each row. 							15. In this school year, how often have you done each of the following activities outside of school? Select one answer choice on each row.								
	Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	r		Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day			revisions were made: (1) In th set leader "How	
 Carry out simple science-related projects with friends (for example, growing plants from beans or making sundials) 	Ø	Ð	©.	۵	θ	VH638970	 Work on science-related projects (for example, making a volcano, growing plants from seeds, or building 	Ø	Φ	0	Φ	©	VH638970		often do you participate" wa changed to "In	
 Carry out advanced science-related projects with friends (for example, designing a model of a bridge, building simple rockets, or designing 	Ø	Φ	Ø	Ø	Θ	VH638973	simple rockets) b. Write or blog about science topics c. Use scientific tools (for example, microscopes,	8	Ð	Ø	Ø	Ð	VH638983		this school yea how often hav you done" to	
bird feeders) c. Volunteer with scientific researchers		-					thermometers, beakers, or weighing scales)	Ø	Ð	Q	Ø	Θ	VH638985		ensure consistency	
(for example, recording the types of plants or animals seen in a natural area, testing water samples in the neighborhood, helping	Ø	æ	©	Ø	Θ	¥14638977	 d. Read about science topics in books or magazines (print or digital) e. Attend clubs or programs that include 	Ø	Ð	Ø	Ø	Φ	VE1638987		across items, (subitems "a" a "b" were combined and	
a scientist in a lab) d. Write or blog about science topics	0	æ	©	Ø	Θ	VH638983	science or engineering activities (for example,	0	Ð	0	Ø	Φ	VH638991		the example	
e. Use scientific instruments (for example, telescopes, microscopes, scales)	Ø	Ð	O	Ð	θ	YH638985	chemistry club, robotics club, or coding programs)		-						content was revised based	
 Read about science topics in books, magazines, or on digital devices 	Ø	Ð	©	Ð	θ	VH638987	Issue: Student Fac	tors							cognitive interview stud	
g. Attend clubs or programs that include science activities	۵	æ	Ø	۵	θ	VH638988									results, (3) subitem "c" w	
Attend clubs or programs that include engineering activities (for example, build a robot, coding programs, etc.)	Ø	Ð	Q	٩	θ	VH638991									dropped, (4) subitems "e" and "f" wordir	
2017 Grade 4)															was revised based on stakeholder feedback, and (5) subitems "g and "h" were combined and the example content was revised based cognitive	

Previous item							2018 item								Rationale
														interview study results.	
13. This school year, how class? Select one answ			ring things in ye	our science		VH639149	17. In this school year, how often have you done the following activities in your science class? Select one answer choice on each row.								The following revisions were
	Never or hardly ever	Once in a while	Sometimes	Often	Always or almost always			Never or hardly ever	Once in a while	Sometimes	Often	Always or almost always			made: (1) In the set leader "This
 a. Ask questions based on what you have seen (for example, "Why did that happen?") 	8	θ	Ø	0	Φ	¥H639150	 Made a drawing that explains why or how something happens 	0	Ð	Q	Ø	Θ	VH639156		school year, ho often did you
 b. Made a drawing that explains why or how something happens 	0	Ф	©	Ø	Ð	VH639156	 b. Used a science experiment to answer a question 	θ	θ	Ø	Φ	θ	VH639162		do" was change to "In this scho
c. Used a set of tests or experiments to answer a question	9	Ð	ø	0	Φ	VH639162	c. Put information you collected into a table or graph	\$	⊕	Ø	Ð	Ð	VH639164		year, how ofter
 d. Put information you collected into a table or a graph to look for patterns 	0	θ	0	0	Φ	YH639164	 d. Used evidence to explain why something happens e. Found news articles 	0	Ð	Ø	٩	Ð	VH639165		have you done to create
e. Decided whether to use numbers or words to explain a problem	0	Ð	Ø	۵	Φ	VH639165	about science on the Internet	۵	Ð	©	Ð	Ð	VH639169		consistency across items, (2
f. Used evidence to explain why something happens	0	œ	©	Ø	Ð	VH639166	Issue: Organizatio	on of Inst	ruction						subitems "a", "e", and "g"
g. Using what you learned, picked a side to support in a discussion about a science topic	θ	θ	Ø	۵	θ	VH639167									were dropped based on
h. Found news articles about science on the Internet	8	Ð	Ø	0	Ð	VH639169									cognitive interview study
2017 Grade 4)			δ ₂												results, and (3) subitem "d" wa revised based o stakeholder feedback. This item was
N/A							 18. How often do you talk ab someone in your family? O Never or hardly ever O Once in a while Sometimes O Often Very often 	out things you	have learned i	n science class v	vith	91743458		A	added to align Science with previous development fo Core.

Previous item	2018 item	D/A/	Rationale
		R/NC+	Rationale
 How often do you understand what the teacher talks about in science class? Never or hardly ever Once in a while Sometimes Often Always or almost always (2017 Grade 4) 	 10. In this school year, how often have you understood what the teacher talks about in science class? Never or hardly ever Once in a while Sometimes Often Always or almost always Issue: Student Factors 	KURYY7 R	The following revisions were made: (1) In the set leader "In this school year" was added to ensure consistency across items, and (2) "do you understand" was changed to "have you understood" to create tense consistency across items.
 How often do you do a good job on your science tests? Never or hardly ever Once in a while Sometimes Often Always or almost always (2017 Grade 4) 	 In this school year, how often have you done well on your science tests? Never or hardly ever Once in a while Sometimes Often Always or almost always Issue: Student Factors	R	The following revisions were made: (1) In the set leader "In this school year" was added to ensure consistency across items, and (2) "do you do a good job" was changed to "have you done well" to create tense consistency across items and based on editorial review.

	Grade 4 Science Student									
Previous item	2018 item	D/A/ R/NC+	Rationale							
 16. How often do you do a good job on your science assignments? Once in a while Sometimes Often Always or almost always 	98888 12. In this school year, how often have you done well on your science assignments (for example, projects, homework, or worksheets)? ④ Never or hardly ever ④ Once in a while ⑤ Sometimes ④ Often ④ Always or almost always Issue: Student Factors		The following revisions were made: (1) In the set leader "In this school year was added to ensure consistency across items, (2 "do you do a good job" was changed to "have you done well" to create tense consistency across items an based on editorial review and (3) example content was added based or cognitive interview feedback.							

Previous item	2018 item							D/A/ R/NC+	Rationale
N/A	16. How much does each choice on each row.	16. How much does each of the following statements describe you? Select one answer				V18639115	A	This item was added to align	
		Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me			Science with
	a. I enjoy science activities.	00	Ð	©	Ø	Ð	VH639117		previous development fo
	b. I look forward to my science class.	۲	Ð	©	Ð	Ð	VH689120		other subjects
	c. I am interested in the things I learn in science class.	0	Ð	©	Φ	Φ	VH639122		(2017 Math, Reading,
	d. I think making an effort in science class is worthwhile.	۹	æ	©	Φ	Θ	VH639125		Writing).
	e. I think science will help me even when I am not in school.	٩	Ð	ø	Φ	Ð	VH639127		
	f. I think it is important to do well on science assignments.	0	œ	Ø	Ø	Ð	VH689128		
	Issue: Student Fac	ctors	•						

⁺ This column indicates whether the item was dropped (D), added (A), revised (R), or there was no change (NC).

							Grade 8 Science Student		
Previous item							2018 item	D/A/ R/NC+	Rationale
 In your science class this year one oval on each line. 	r, which of	the follow	ing topics	have been	covered? F	vc:104978 ill in	N/A	D	To keep student burden low and add new content
			Yes						consistent with
 a. Life science (for example, body, or ecology) 	biology, the	human	(8)	®		VC304982			prior
 b. Physical science (for examp chemistry) 	ple, energy,	, physics, o	r ®	€		VC304983			development for other subjects
c. Earth and space science (fo astronomy)	r example,	geology or	۲	₿		VC304984			(2017 Math,
d. Engineering and technolog designing solutions to prob	y (for exam olems)	ple,	۲	₿		VC304985			Reading, Writing), this
(2015 Grade 8)									item was
(2010 Clube of									dropped.
4. In your science class this year	r, how ofte	n do vou de	o each of th	he followin	g? Fill in o	vc304769 ne oval	N/A	D	To keep student
on each line.					0				burden low and
	Never or hardly ever	Once every few weeks	About once a week	Two or three times a week	Every day or almost every day				add new content consistent with
a. Discuss events in the news that are related to what you are learning in science class	(a)	®	©	D	Đ	VC304771			prior development for other subjects (2017 Math,
 Work with other students on a science project or activity 	(3)	₿	Q	0	Ð	VC304772			Reading, Writing), this
c. Present what you learned about science to your class	0	₿	0	0	Ð	VC304778			item was
d. Take a science test or quiz		₿	O	0	©	VC720564			dropped.
(2015 Grade 8)									

							Grade 8 Science Student		1
Previous item							2018 item	D/A/ R/NC+	Rationale
 VH142438 5. In this school year, how often have you been asked to write long answers (several sentences or paragraphs) to questions on tests or assignments for science? (2) Never or hardly ever (3) Once every few weeks (4) Once every few weeks (5) About once a week (6) Every day or almost every day (7) Once every few weeks (7) Two or three times a week (9) Every day or almost every day (7) Once every few weeks (9) Two or three times a week (9) Every day or almost every day (9) Once every few weeks (9) Two or three times a week (9) Every day or almost every day (9) Once every few weeks (9) Forade 8) 							N/A	D	To keep student burden low and add new conten consistent with prior development fo other subjects (2017 Math, Reading, Writing), this item was dropped.
5. In your science class this yea on each line.	nr, how ofter Never or hardly ever	n do you d Once every few weeks	o each of th About once a week	the followin Two or three times a week	g? Fill in o Every day or almost every day		N/A	D	To keep student burden low and add new conten consistent with prior
a. Identify questions that can be addressed through science experiments	۵	₿	Ø	۵	Ð	VC720623			development for other subjects
b. Design a science experiment	(8)	(16)	0	0	Ð	VC720634			(2017 Math, Reading,
c. Talk about measurements you took for your science	(₿	O	٢	Ð	VC720635			Writing), this item was
project or activity	۲	₿	0	۵	Ð	VC720636			dropped.
d. Talk about the results of your science project or activity					1.S. 1				
d. Talk about the results of your science project or	٨	₿	O	0	Ē	VC720638			
 d. Talk about the results of your science project or activity e. Watch your teacher do a science experiment or 	(d)	ഀ	0	0	©	VC720638 VC720639			

Previous item						2018 item	D/A/	Rationale
revious item						2018 item	R/NC+	Rationale
 8. In this school year, how often you used your school library or center resources for science (su books, magazines, computers, audio-video materials)? ③ Never or hardly ever ③ Once every few weeks ④ About once a week ⑤ Two or three times a week ⑤ Every day or almost every	r media 1ch as and	84				N/A	D	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped.
2015 Grade 8)								
 P. In this school year, how often have you used computers for science? In this school year, how often have you used computers for science? In this school year, how often have you weeks In the other of the other of the other of the other oth						N/A	D	To keep student burden low and add new conten consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped.
3. Please indicate how much you DISAGR about science. Fill in one oval on each h	ine.	REE with th	e followin	1111	vC305330 nts	N/A	D	To keep student burden low and
	Strongly disagree	Disagree	Agree	Strongly agree				add new content
a. I do science-related activities that are not for schoolwork.	(4)	(1)	O	۵	VC305348			consistent with prior
b. I like science.	•	₿	0	0	VC305350			development for
c. Science is one of my favorite subjects.	•	B	0	0	VC305351			other subjects
d. I take science only because I have to.	•	B	O	0	VC305352			(2017 Math, Reading,
e. I need to do well in science to get the job I want.	(8)	ـ	0	٢	VH142495			Writing), this
f. I would like a job that involves using science.	(8)	ـ	0	0	VH142499			item was dropped.

				Grade 8 Science Student		
Previous item				2018 item	D/A/ R/NC+	Rationale
14. In this school year, have you partici oval on each line.	pated in any of the foll Yes	owing activities? No	vF633128 Fill in one	N/A	D	To keep student burden low and add new content
a. Science fair	۲	(1)	VF633132			consistent with
b. Science club	۵	ـ	VF633134			prior
c. Science competition	(8)	(1)	VF633135			development for
(2015 Grade 8)						other subjects (2017 Math, Reading, Writing), this item was dropped.
 15. In this school year, have a museum, zoo, or aquari about science on a school Yes No (2015 Grade 8) 	um to learn			N/A	D	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped.
 16. In this school year, have year a museum, zoo, or aquariur about science that was not trip? Yes No (2015 Grade 8) 	m to learn			N/A	D	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped.

	Grade 8 Science Student		
Previous item	2018 item	D/A/ R/NC	
 Provide the second s	 1. How important was it to you to do well on this test? Not very important Somewhat important Important Very important Issue: N/A	viceouti NC	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped from the Science questionnaire and moved to the Core questionnaire (Appendix F1-b). Please note that the purpose of debrief items is not to address an issue identified in the issues paper but to assess students' experience of taking the assessment. As such, this item is not classified by issue.

	Grade 8 Science Student		
Previous item	2018 item	D/A/ R/NC+	Rationale
 18. How hard did you try on this test compared to how hard you tried on most other tests you have taken this year in school? (a) Not as hard as on other tests (b) About as hard as on other tests (c) Harder than on other tests (c) Much harder than on other tests (2015 Grade 8) 	N/A	D	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped.
 VB595182 17. How hard was this test compared to most other tests you have taken this year in school? ② Easier than other tests ③ About as hard as other tests ③ Harder than other tests ④ Much harder than other tests (2015 Grade 8) 	N/A	D	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped.

	0.1					2018 item							D/A/ R/NC+	Rationale
		ou done hands-o swer choice on		or	VH639071	 In your science class t projects on any of the 	 In your science class this year, how often have you done hands-on activities or projects on any of the following topics? Select one answer choice on each row. 							R The following revisions were
Never or hardly ever	Once in a while	Sometimes	Often	Very often			Never or hardly ever	Once in a while	Sometimes	Often	Very often			made: (1) "or"
Θ	₿	Θ	٩	¢	VH639072	a. Living things (for example, plants, animals, or bacteria)	۵	Ф	©	۵	Ð	VH639072		was added to subitem "a"
0	٢	Ø	0	©	VH639074	 Electricity (for example, circuits, batteries, or light 	۲	Φ	Ø	Ø	Φ	VH639074		based on editorial review
Θ	6	0	٢	©	VH639073	c. Chemicals (for example, vinegar, baking soda, or	۵	Ð	Ø	Ø	Ð	VH639073		(2) "and" was replaced with "or" in subitem
۲	8	Θ	0	Ð	VH639077	d. Rocks or minerals (for example, diamond,	۲	Ð	©	0	Ð	VH639077		"b", (3) exampl
Θ	₿	Ø	٩	¢	VH639076	e. Technology and engineering (for example, robots,	@	Ð	Ø	0	Ð	VH639076		content in subitems "c",
Θ	٩	Ø	Ð	œ	VH639075	ramps)	n of Inst	ruction			i in the st			"d", and "e" wa revised based o
Θ	₿	Ø	Ð	©	VH639078			laction						cognitive interview study
														results, and (4) subitems "f" ar "g" were move to VH639311 based on stakeholder
	© © ©	© © © © © © © ©	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	© © © © © © © © © © © © © © © © © © © © © © © © © © © © © © © © © © © © © © ©	Image: constraint of the state of	O O O O O V1639074 O O O O V1639074 O O O O V1639074 O O O O V1639075 O O O O V16439075 O O O O V16439075	Image: Constraint of the system Image: Constraint of the system	Image: Constraint of the system of the sy	Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system	Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constrainton of Instruction <t< td=""><td>Image: Construction of lnstruction Image: Construction Image: Construction</td><td>Image: Constraint of the second state of the second sta</td><td>Image: Construction Image: C</td><td>Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction I</td></t<>	Image: Construction of lnstruction Image: Construction Image: Construction	Image: Constraint of the second state of the second sta	Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction Image: C	Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction I

Previous item							2018 item								Rationale
2. In your science class answer choice on eac		often do you	do each of the f	ollowing? Se	elect one	VH639311	 In your science class t activities? Select one a 	his year, how inswer choice	often have yo on each row.	u done each of	the followin		VH639311	R	The following revisions were
	Never or hardly ever	Once in a while	Sometimes	Often	almost always			Never or hardly ever	Once in a while	Sometimes	Often	Always or almost always			made: (1) In the item stem "do
a. Read from a science textbook b. Read a book or	Θ	٢	0	Ø	©	VH639313	 Read from a science textbook (print or digital) 	Θ	Ð	Ø	Ð	Θ	VH639313		you do" was
magazine about science topics c. Use the Internet to	٩	٢	Ø	Ø	¢	VH639315	Read a book or magazine (print or	0	Ð	ø	Ð	Ð	VH630315		changed to "have you done
learn about science topics	۲	ـ	0	۵	©	VH639314	digital) about science topics c. Used the Internet to		, and the second	-		-			to create tense consistency
 Watch a short video clip, movie, or video about science topics 	۲	ـ	0	Ø	¢	VH639312	learn about science topics	8	Ð	©	Ø	Ð	VH639314		across items, (2
2017 Grade 8)							 d. Watched a short video clip, movie, or video about science topics 	Θ	Ð	©	Ð	Ð	VH639312		"(print or digital)" was
							 Used a magnifying glass or microscope for looking at small things 	0	Ð	©	Φ	Θ	VH639075		added to
							f. Used a thermometer or weighing scale for making measurements	Θ	Ð	©	Ð	Ð	VH639078		subitems "a" ai "b" based on
							Issue: Organizatio	on of Inst	truction			1			stakeholder feedback, and
															(3) subitems "e
															and "f" were
															revised and added from
															VH639071 bas
															on stakeholde
															feedback.

Previous item							2018 item							D/A/ R/NC+	Rationale
3. Thinking about science following? Select one	ce, do you thin answer choice	k that you wo on each row.	uld be able t	o do each of th	ie	VH63S866	6. Thinking about scient following activities? S	e, do you thin elect one answ	k that you wo ver choice on o	uld be able t each row.	o do each of th	e	VH638366	R	The following revision was
	I definitely can't	I probably can't	Maybe	I probably can	I definitely can			I definitely can't	I probably can't	Maybe	I probably can	I definitely can	1.51		made: Subitems
 Describe the different procedures for heating or cooling a sample of water 	(9)	θ	0	Θ	θ	VH638868	 Describe different ways to heat or cool water 	0	Ð	©	Ð	Θ	VH638868		"a", "b", "c", "d "e", and "g"
b. Design a model showing how the length of a vibrating string affects the	۵	0	O	0	©	VH638870	b. Describe how the length of a vibrating string affects the sound it makes	0	Φ	©	Φ	θ	V91688870		were revised based on
motion of the waves that are produced							c. Design an experiment to show how sunlight affects the growth	0	Ð	Ø	Θ	Ð	VH638872.		editorial, exper-
c. Design an experiment to show how sunlight affects the growth of a type of plant	۵	٩	Ø	Ø	©	VH638872	d. Use examples to show how one living thing				1				stakeholder
d. Use evidence to show how one organism has	@	®	Ø	0	Ð	VH638875	has helped another to survive e. Describe what would	۲	Ð	Ō	Ø	Ð	VH638875		feedback.
helped the other to survive			•				happen to the number						18.1		
e. Use a food chain to show how the removal of one animal affects another	۲	٩	Θ	Ð	Φ	VH638876	of frogs at a pond if all the insects were removed from the pond	θ	Ð	©	Φ	Φ	VH638876		
f. Decide which tool to use if you want to measure wind speed	۵	®	Ø	Ð	Ð	VH638883	f. Decide which tool to use if you want to measure wind speed	0	Ф	©	٩	Θ	V71638883		
g. Predict the season based on a graph that shows the 30-day average temperature	Ø	©	Q	Ø	Θ	VH638885	g. Describe why the weather in the summer is different than in the winter	0	Ð	©	Φ	Θ	VH638885		

Previous item							2018 item							D/A/ R/NC+	Rationale
4. How much does each one answer choice on a	of the follow: each row.	ng statement	s describe a po	erson like you	1? Select	VH639079	7. How much does each choice on each row.	of the follow	ving statement	ts describe yo	u? Select one a	inswer	VH630079	R	The following revisions were
6	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me		1	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me			made: (1) In the set leader
 I want other students to think I am good at science. 	۵	₿	Ø	Ø	Ð	VH639080	 a. I want other students to think I am good at science. 	0	Ð	Q	Φ	Ð	VH639080		"describe a
I want to show others that science schoolwork is easy for me.	۵	۵	θ	Ø	¢	VH639082	b. I want to show others that science schoolwork is easy for me.	۵	Φ	Ø	Φ	œ	VH639082		person like you was changed to
c. I want to look smart in comparison to the other students in my science class.	۲	¢	Ø	۵	Ø	VH639084	c. I want to look smart in comparison to the other students in my science class.	۵	Φ	Q	Ø	Φ	VH639084		"describe you" based on expension committee and
 I want to learn as much as possible in my science class. 	۵	٢	O	Ø	©	VH639086	 d. I want to get better science grades than most other students in 	Ø	Ð	ō	۵	Ø	VH732329		stakeholder
 I want to become better in science this year. 	0	(1)	0	Ø	©	VH639087	most other students in my class. e. I want to learn as	_							feedback, and (2) subitems "c
f. I want to understand as much as I can in my	0	0	Q	٥	©	VH639089	much as possible in my science class.	٩	Ф	©	Φ	¢	V2H639086		and "h" were
science class. 2017 Grade 8)							 I want to become better in science this year. 	0	Ð	©	Φ	Ð	V21639087		added to ensur
0.00000							g. I want to understand as much as I can in my science class.	۵	Ð	Ø	Φ	Ð	VH639089		consistency across subjects
							 I want to master a lot of new science skills in my class. 	Ø	Ð	Ø	θ	Ð	VH732330		(2018 social studies).

Previous item							2018 item							D/A/ R/NC+	Rationale
3. Thinking about science following? Select one	ce, do you thin answer choice	k that you wo on each row.	uld be able t	o do each of th	ie	VH633866	6. Thinking about scien following activities? 5	ce, do you thin select one answ	k that you wo ver choice on o	uld be able t each row.	o do each of th	e	VH638366	R	The following revision was
	I definitely can't	I probably can't	Maybe	I probably can	I definitely can			I definitely can't	I probably can't	Maybe	I probably can	I definitely can	1.71		made: Subitems
 a. Describe the different procedures for heating or cooling a sample of water 	Θ	₿	0	Φ	θ	VH638868	a. Describe different ways to heat or cool water	0	Ð	©	Ð	Θ	V11638868		"a", "b", "c", "d' "e", and "g"
b. Design a model showing how the length of a vibrating string affects the	Θ	®	Q	0	Ø	VH638870	 b. Describe how the length of a vibrating string affects the sound it makes 	0	Ð	©	Φ	θ	VH638870		were revised based on
motion of the waves that are produced							c. Design an experiment to show how sunlight affects the growth	Θ	Ð	O	0	Ð	VH638872		editorial, experi
c. Design an experiment to show how sunlight affects the growth of a type of plant	Θ	٢	Ø	Ø	Ø	VH638872	d. Use examples to show how one living thing								committee, and stakeholder
d. Use evidence to show how one organism has	0	®	Q	0	Ð	VH638875	has helped another to survive	۲	Ð	Ō	Ø	Ð	VH638875		feedback.
helped the other to survive	9	[©]	0	w .	Û	Thusday J	e. Describe what would happen to the number of frogs at a pond if all						182.1		
e. Use a food chain to show how the removal of one animal affects another	(6)	®	0	Ð	Φ	VH638876	the insects were removed from the pond	Ø	Ð	©	Ø	Ð	VH638876		
f. Decide which tool to use if you want to measure wind speed	0	®	Ø	Ø	θ	VH638883	f. Decide which tool to use if you want to measure wind speed	۲	Φ	0	Φ	Φ	V31638883		
g. Predict the season based on a graph that shows the 30-day average temperature	Θ	©	Ø	Ø	Φ	VH638885	g. Describe why the weather in the summer is different than in the winter	0	Ð	©	Φ	θ	VH638885		

Previous item							2018 item							D/A/ R/NC+	Rationale
4. How much does each one answer choice on a	of the follow each row.	ing statement	s describe a po	erson like you	1? Select	VH639079	7. How much does each choice on each row.	of the follow	ving statement	ts describe yo	u? Select one a	answer	VH630079	R	The following revisions were
	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me			Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me			made: (1) In the
 a. I want other students to think I am good at science. 	۵	₿	Q	Ø	Φ	VH639080	a. I want other students to think I am good at science.	0	Ð	Ø	Φ	Φ	VH639080		set leader "describe a
b. I want to show others that science schoolwork is easy for me.	۵	®	Q	Φ	Ð	VH639082	b. I want to show others that science schoolwork is easy for me.	۵	Ð	Ø	۵	¢	V7H639082		person like you was changed to
c. I want to look smart in comparison to the other students in my science class.	۵	Ð	Ø	۵	Ø	VH639084	 I want to look smart in comparison to the other students in my science class. 	۵	æ	Θ	Φ	Ð	VH639084		"describe you" and (2) subiten "d" and "h" we
 I want to learn as much as possible in my science class. 	Φ	۲	Ø	Ø	©	VH639086	d. I want to get better science grades than	0	Ð	ō	۵	Ð	VH732529		added to ensur
e. I want to become better in science this	Ø	®	0	Ø	©	VH639087	most other students in my class. e. I want to learn as				<u> </u>				consistency
year. f. I want to understand as much as I can in my	۵	®	O	۵	©	VH639089	much as possible in my science class.	0	Φ	Ø	Φ	٢	V2H639086		across subjects
science class. 2017 Grade 8)				1			 I want to become better in science this year. 	0	Ð	©	Φ	Ð	VH639087		
							g. I want to understand as much as I can in my science class.	0	Ð	Ø	Φ	Ð	VH639089		
							 I want to master a lot of new science skills in my class. 	0	Ð	Q	Φ	Ð	VH732350		

Previous item							2018 item							D/A/ R/NC+	Rationale
 How often do you parti school? Select one answ 	cipate in eac ver choice or	h of the follow h each row.	ving activities	outside of		VH658951	8. In this school year, how of school? Select one an	often have swer choice	you done each e on each row.	of the follow	ing activities (outside	VH658951	R	The following revisions were
	Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day o almost every day			Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day o almost every day	r		made: (1) In th set leader "Ho
a. Carry out simple science-related projects with friends (for example, growing plants from beans or making sundials)	Ø	Ø	Ø	Ø	Ð	VH638970	 Work on science-related projects (for example, making a volcano, growing plants from seeds, or building 	Ø	Ð	Ø	Ø	Θ	V11638970		often do you participate" wa changed to "In
 b. Carry out advanced science-related projects with friends (for example, designing a model of a bridge, 	Ø	œ	Ø	۵	Θ	¥1463897,3	simple rockets) b. Write or blog about science topics c. Use scientific tools	٩	Ð	Q	Ø	Ø	VH638983		this school yea how often hav you done" to
building simple rockets, or designing bird feeders) c. Volunteer with	5.4	-					(for example, microscopes, thermometers, beakers, or weighing	Ø	Φ	Ø	۵	Φ	VH638985		ensure consistency
scientific researchers (for example, recording the types of plants or animals seen in a natural area, testing	۵	.œ	Ø	Ð	Ð	V14638977	scales) d. Read about science topics in books or magazines (print or digital)	0	Ð	©	۵	θ	VH638987		across items, (subitems "a" a "b" were
water samples in the neighborhood, helping a scientist in a lab) d. Write or blog about							e. Attend clubs or programs that include science or engineering activities (for example,	0	Ð	Ø	Ð	Θ	V31638991		combined and the example
science topics e. Use scientific instruments (for example, telescopes,	0	@ @	Q	0	Ð	VH638983 VH638985	chemistry club, robotics club, or coding programs)								content was revised based
microscopes, scales) f. Read about science topics in books, magazines, or on	Ø	æ	Q	Ø	Ð	VH638987	Issue: Student Fac	tors							cognitive interview stud
digital devices g. Attend clubs or programs that include science activities	Ø	.0	©	۵	Ð	V16.39988									results, (3) subitems "c" a
 Attend clubs or programs that include engineering activities (for example, build a robot, coding programs, etc.) 	۵	Φ	Ø	۵	θ	VH63899)									"d" were dropped, (4) subitems "e"
2017 Grade 8)															and "f" wordin was revised based on stakeholder feedback, and
															(5) subitems "g and "h" were
															combined and the example
															content was revised based

Previous item							2018 item							D/A/ R/NC+	Rationale
															interview study results.
6. This school year, how class? Select one answ			ving things in y	our science		VH639733	 In this school year, how or class? Select one answer 			ollowing activi	ties in your	science	VU639733	R	The following revisions were
	Never or hardly ever	Once in a while	Sometimes	Often	Always or almost always		I ha	Never or ardly ever	Once in a while	Sometimes	Often	Always or almost always			made: (1) In the set leader "In"
 Came up with research questions that could help explain how something works 	0	Ø	Φ	۵	Φ	VH639744	a. Came up with research questions to explore how something works	0	Ð	Q	Ð	Ð	VH639744		was added to ensure
Made labeled drawings or models that explain why or how something happens	Θ	Φ	Ø	Ø	Φ	VH639749	b. Made drawings that explain why or how something happens	8	Ð	©	Φ	Φ	V11639749		consistency across items, (2
 c. Evaluated the quality of a set of tests that you use to answer a research question 	0	œ	ø	۵	Φ	VH639753	c. Came up with experiments that you could use to answer a research question	Ø	Ð	0	Φ	Φ	VH639753		"did you do" wa changed to
d. Used tables, graphs, or statistics to identify relationships between variables	۵	œ	Ø	۵	Φ	V11639760	d. Used tables or graphs to identify relationships between variables	Θ	Φ	0	Θ	Ð	VH639760		"have you done", and (3)
e. Used mathematical representations to explain or support scientific conclusions	θ	Φ	Ø	Ø	Φ	VH639763	e. Used math equations to explain or support scientific conclusions	Θ	Ð	ø	Φ	Ð	VH639763		subitems "a", "b", "c", "d", "e
f. Used evidence from experiments and measurements of variables to explain why something	Θ	Φ	©	۵	θ	VH639765	f. Used evidence from experiments to explain why something happens g. Used information to	Ø	Ð	©	Ð	Ð	VH639765		"f", "g", and "h were revised.
happens	L. E.				11		disagree with someone about a scientific idea	Θ	Ð	O	Φ	Φ	VH639770		
g. Responded to disagreement about a scientific idea by using information you learned in class	Θ	Φ	Ø	Ø	Φ	VP6-39770	 h. Combined information about science from multiple sources (for example, books, websites, or articles) 	8	Φ	©	Φ	Ð	VH639777		
 Combined information about science from multiple sources for an assignment 	0	Φ	Q	0	Θ	VH639777	for an assignment	of Inst	ruction						
2017 Grade 8)							_								
 7. In this school year, how are doing in science? D Never or hardly ever D Once in a while Sometimes O Often Always or almost all 		approach yo	our teacher to ta	alk about ho	w you	¥H688979	N/A							D	This item was dropped based on stakeholder feedback.

	Grade 8 Science Student			
Previous item	2018 item		D/A/ R/NC+	Rationale
 9. How often do you understand what the teacher talks about in science class? (a) Never or hardly ever (b) Once in a while (c) Sometimes (c) Often (c) Always or almost always (2017 Grade 8)	 In this school year, how often have you understood what the teacher talks about in science class? Never or hardly ever Once in a while Sometimes Often Always or almost always Issue: Student Factors	V163897	R	The following revisions were made: (1) In the set leader "In this school year" was added to ensure consistency across items, and (2) "do you understand" was changed to "have you understood" to create tense consistency across items.
 9. How often do you do a good job on your science tests? O Never or hardly ever Once in a while Sometimes Often Always or almost always (2017 Grade 8) 	 2. In this school year, how often have you done well on your science tests? Never or hardly ever Once in a while Sometimes Often Always or almost always Issue: Student Factors 	V16.3590	R	The following revisions were made: (1) In the set leader "In this school year" was added to ensure consistency across items, and (2) "do you do a good job" was changed to "have you done well" to create tense consistency across items and based on editorial review.

Previous item		2018 item							D/A/ B/NC+	Rationale
 10. How often do you do a good job on your science assignments? Never or hardly ever Once in a while Sometimes Often Always or almost always (2017 Grade 8) 	79567903	 In this school year, ho example, projects, hor Never or hardly ex Once in a while Sometimes Often Always or almost Issue: Student Failed and the second sec	nework, or w rer always		ell on your se	cience assign	ments (for	98639033	R/NC+	The following revisions were made: (1) In the set leader "In this school year" was added to ensure consistency across items, (2) "do you do a good job" was changed to "have you done well" to create tense consistency across items and based on editorial review, and (3) example content was added based on cognitive interview
N/A		9. How much does each choice on each row.	ı of the follov	ving statemen	ts describe yo	u? Select one	answer	VH639115	A	feedback. This item was added to align
			Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me			Science with
		 a. I enjoy science activities. 	Ø	Ð	0	θ	Θ	VH639117		previous
		b. I look forward to my science class.	٩	Ð	Q	Ð	Ð	VH639120		development fo other subjects
		c. I am interested in the things I learn in science class.	۵	Ð	Ø	٩	θ	VH639122		(2017 Math,
		d. I think making an effort in science class is worthwhile.	۲	Ð	Θ	θ	θ	VH639715		Reading, Writing).
		e. I think science will help me even when I	٩	Ð	ø	Ø	Θ	VH639127		
		am not in school. f. I think it is important								

	Grade 8 Science Student		
Previous item	2018 item	D/A/ R/NC+	Rationale
N/A	 11. How often do you talk about things you have learned in science class with someone in your family? Never or hardly ever Once in a while Sometimes Often Very often Issue: Student Factors 	A	This item was added to align Science with previous development for Core based on stakeholder feedback.

Previous item								2018 item								D/A/ R/NC+	Rationale
1. Which courses have your of the second sec	urse more INCLUD	e than once, E courses ta	give the m	nost recent nmer schoo	year you to ol, but DO	ook it. Fill NOT INC	vc305768 in LUDE	 Which courses hav than once, give the INCLUDE courses as part of a longer 	most recent taken in su	t year you to	ook it. Selec	t one answer	choice on e	ach row.		NC	Please note the inline directions are different
	Course not taken	I took this course in Grade 8	I took this course in Grade 9	I took this course in Grade 10	course in Grade 11	I am taking or have taken this course in Grade 12			I did not take this course.	I took this course in Grade 8.	I took this course in Grade 9.	I took this course in Grade 10.	I took this course in Grade 11.	I am taking or have taken this course in Grade 12.			given the transition from PPT to DBA and
 Earth and space science 	Ø	®	0	0	Ð	©	(Calcard	a. General science	0	Ð	Ø	Ø	Ð	Ð	VH241150		they have been
b. Life science (other than biology)	Ø	๎®	0	Ø	Ð	Ð	VC305814	 b. First-year biology c. Second-year biology 	9 9	0) (1)	0	0	0	®	VH241151 VH241159		moved to a different part of
c. Physical science (other than	9	®	0	Ø	Ð	Ð	VC305815	d. Life science (other than biology)	٩	¢D.	Q	٩	Ð	ø	VH241148		the stem. Also,
chemistry or physics)								e. First-year chemistry	0	Φ	Ø	Ø	Ð	Ð	VH241154		have been
d. General science	0	©	0	0	Ð	Ð	VC.305817	f. Second-year chemistry	θ	Φ	Ø	0	Φ	Ð	VH241155		rearranged in
e. First-year biology	3	®	O	Ø	Ð	Ð	VC305819	g. First-year physics h. Second-year	0	Φ	Ø	0	Ð	©	VH241156		order to group
f. Second-year biology	8	⊛	0	0	Ð	Ð	VC305820	physics i. Physical science	0	Ð	0	Ø	Φ	®	VH241157		them by area o
g. First-year chemistry	3	۲	0	0	Ð	Ð	VC305821	(other than chemistry or physics)	Ø	Ð	Ø	0	Φ	Ð	VH241140		science based of stakeholder
h. Second-year chemistry	•	®	0	0	Ð	Ð	VC1305822	 j. Earth and space science k. Engineering and 	θ	Ð	Ø	٩	Φ	Ð	VH241147		feedback. Give
i. First-year physics	(8)	®	0	Ø	Ð	©	VC305813	technology	0	Φ	Ø	Ø	Ð	Ð	VH241158		nature of these
j. Second-year physics	9	®	©	0	Ð	Ð	VC305825	 Other science course (Please specify): 	Ø	æ	ø	0	Ð	Ð	VH241153		revisions they
k. Engineering and technology	(3)	ـ	0	Ø	Ð	Ð	VC130582.6	Issue: Organiza	tion of	Instruc	tion						are classified as NC.
I. Other science course	(8)	ـ	0	Ø	Ð	Ð	VC305829										
2015 Grade 12)																	

							Grade 12 Science Student		
Previous item							2018 item	D/A/ R/NC+	Rationale
 Are you currently enrolled in a science? Yes 	or have y	you taken i	Internatio	mal Baccal	aureate® co	mmare ourses in	N/A	D	To keep student burden low and add new content
I No									consistent with
(2015 Grade 12)									prior development for other subjects (2017 Math, Reading, Writing), this item was dropped.
5. Please indicate how much you about science. Fill in one oval o	DISAGE on each l	REE or AGI line.	REE with t	the followi	ng stateme	vc305330 nts	N/A	D	To keep student burden low and
		Strongly disagree	Disagree	Agree	Strongly agree				add new content consistent with
 a. I do science-related activities are not for schoolwork. 	s that	٩	⊕	0	٩	VC305348			prior
b. I like science.		•	Ð	0	0	VC305350			development for
c. Science is one of my favorite	subjects	s. 👁	⊕	0	0	VC205351			other subjects
d. I take science only because I	have to.	(3)	B	0	0	VC305352			(2017 Math, Reading,
e. I need to do well in science to job I want.	o get the	©	٢	0	Θ	VH142495			Writing), this
f. I would like a job that involve science.	es using	Ø	9	0	⊕	VH142498			item was dropped.
(2015 Grade 12)									
9. In your science class this year, h on each line.	iow ofter Never	n do you do Once	o each of th		ng? Fill in o Every day	vc304769 ne oval	N/A	D	To keep student burden low and add new content
or		every few weeks		three times a week					consistent with
	3	٢	©	۵	Ð	VC304771			prior development for other subjects
 Work with other students on a science project or activity 	0	ـ	Ø	0	©	VC304772			(2017 Math, Reading,
c. Present what you learned about science to your class	•	ـ	Ø	0	٢	VC304778			Writing), this item was
d. Take a science test or quiz	0	•	0	0	Φ	VC720564			dropped.
(2015 Grade 12)									

Duranta and Italia							Grade 12 Science Student		Detterrele
Previous item							2018 item	D/A/ R/NC+	Rationale
 In your science class this yea on each line. 	ır, how ofte	n do you c	lo each of t	he followir	ıg? Fill in o	vc720622 ne oval	N/A	D	To keep student burden low and
	Never or hardly ever	Once every few weeks	About once a week	Two or three times a week	Every day or almost every day				add new content consistent with prior
a. Identify questions that can be addressed through science experiments	(3)	®	Ø	0	©	VC720623			development for other subjects
b. Design a science experiment	Θ	ـ	0	0	Ð	VC720634			(2017 Math, Reading,
c. Talk about measurements you took for your science project or activity	0	Ð	0	0	Ð	VC720635			Writing), this item was
d. Talk about the results of your science project or activity	0	₿	0	0	Ð	VC720636			dropped.
 e. Watch your teacher do a science experiment or activity 	0	G	0	0	Ð	VC720638			
f. Make graphs or charts of the results from your science project or activity	۲	®	©	0	©	VC720639			
g. Write about your science activities or projects (such as reports, science journals, or lab write-ups)	0	₿	0	0	Ð	V7633111			
(2015 Grade 12)									
11. In this school ye you been asked t (several sentence questions on test science?	o write s or par	long an agraph	nswers ns) to				N/A	D	To keep student burden low and add new conten consistent with prior development fo
Never or har	dly eve	r							other subjects (2017 Math,
[®] Once every f	ew wee	ks							Reading,
© About once	a week								Writing), this item was
[©] Two or three	times a	a week							dropped.
© Every day or	almost	every	day						
(2015 Grade 12)									

		Grade 12 Science Student		
Previous item		2018 item	D/A/ R/NC+	Rationale
 13. In this school year, how of you used your school libra center resources for science books, magazines, comput audio-video materials)? Never or hardly ever Once every few weeks About once a week Two or three times a v Every day or almost ev (2015 Grade 12) 	ry or media e (such as ers, and veek	N/A	D	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped.
 14. In this school year, how used computers for scien ③ Never or hardly even ③ Once every few weee ③ About once a week ④ Two or three times a ④ Every day or almost (2015 Grade 12) 	nce? r ks a week	N/A	D	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped.
 18. In this school year, have you particip oval on each line. a. Science fair b. Science club c. Science competition (2015 Grade 12) 	ated in any of the following activities? I Yes No O D O D O O	VF633125 N/A VF633123 VF633124 VF633135	D	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped.

	Grade 12 Science Student		
Previous item	2018 item	D/A/ R/NC+	Rationale
 VF633304 19. In this school year, have you visited a museum, zoo, or aquarium to learn about science on a school trip? ③ Yes ⑤ No (2015 Grade 12) 	N/A	D	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped.
 VF633276 20. In this school year, have you visited a museum, zoo, or aquarium to learn about science that was not on a school trip? ① Yes ③ No (2015 Grade 12) 	N/A	D	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped.
 21. How hard was this test compared to most other tests you have taken this year in school? ② Easier than other tests ③ About as hard as other tests ③ Harder than other tests ③ Much harder than other tests (2015 Grade 12) 	N/A	D	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped.

⁺ This column indicates whether the item was dropped (D), added (A), revised (R), or there was no change (NC).

	Grade 12 Science Student		
Previous item	2018 item	D/A/ R/NC	
viewill on this test? A How important was it to you to do well on this test? Somewhat important Upportant Very important (2015 Grade 12)	 1. How important was it to you to do well on this test? Not very important Somewhat important Important Very important Issue: N/A		 To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped from the Science questionnaire and moved to the Core questionnaire (Appendix F1-b). Please note that the purpose of debrief items is not to address an issue identified in the issues paper but to assess students' experience of taking the assessment. As such, this item is not classified by issue.

Previous item							2018 item							D/A/ R/NC+	Rationale
 22. How hard did you compared to how most other tests y year in school? ① Not as hard as ① About as hard ① Harder than c ① Much harder (2015 Grade 12)	hard you th ou have tal s on other t l as on othe on other tes	ried on ken this rests r tests ts					N/A							D	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was dropped.
 In your science class t projects with any of th 	ne following? S	Select one ans	wer choice on	each row.		VH839071	 In your science class t projects on any of the 	his year, how following top	often have yo ics? Select on	ou done hands- e answer choic	on activities e on each roy	or w.	VD639071	R	The following revisions were
	Never or hardly ever	Once in a while	Sometimes	Often	Very often		1.01	Never or hardly ever	Once in a while	Sometimes	Often	Very often	1		made: (1) "or" was added to
 a. Living things (for example, plants, animals, bacteria) 	٩	٩	٥	۵	Φ	V14639072	 a. Living things (for example, plants, animals, or bacteria) 	٩	Φ	Ø	0	Ð	VH639072		subitem "a"
b. Electricity (for example, circuits, batteries, and light bulbs)	۹	٢	0	0	θ	VH639074	 b. Electricity (for example, circuits, batteries, or light 	0	Ð	0	Ð	Ð	VH639074		based on editorial review
c. Chemicals (for example, mixing or dissolving sugar or salt in water)	۵	0	Ø	۵	Φ	V14639073	bulbs) c. Chemicals (for example, vinegar, baking soda, or	۵	8	Ø	۵	θ	VH639073		(2) "and" was replaced with
Rocks or minerals (for example, identifying types)	Θ	⊕	0	Θ	θ	VI1639077	hydrogen peroxide) d. Rocks or minerals (for example, diamond,	Ø	Ð	0	0	Ð	VH639077		"or" in subitem "b", (3) example
e. Technology and engineering (for example, pulleys and levers)	θ	θ	0	θ	θ	V14639076	e. Technology and engineering (for example, robots,	0	Ð	0	۵	Ð	¥H639076		content in subitems "c",
Magnifying glass or microscope (for looking at small things)	Ø	Ð	Ø	Ø	Ð	V14639075	pulley systems, or ramps)	on of Ins	truction						"d", and "e" was revised based o
g. Thermometer or barometer (for making measurements)	۵	۲	0	0	θ	V14639078	issue: organizatio		li detion						cognitive interview study
2017 Grade 12)															results, and (4) subitems "f" and "g" were moved to VH639311 based on stakeholder feedback.

revious item							2018 item							D/A/ R/NC+	Rationale
2. In your science class answer choice on eac		often do you	do each of the fe	ollowing? Se	lect one	23636313	5. In your science class t activities? Select one a			ou done each of	the followin	g	VD#99311	R	The following revisions were
	Never or hardly ever	Once in a while	Sometimes	Often	Always or almost always			Never or hardly ever	Once in a while	Sometimes	Often	Always or almost always			made: (1) In the item stem "do
a. Read from a science textbook b. Read a book or	۵	0	Ø	0	Φ	V16639313	 Read from a science textbook (print or digital) 	Ø	9	Ø	٩	Θ	VH639313		you do" was changed to
magazine about science topics c. Use the Internet to learn about science	0	0	9	0	0	VH63R315 VH63R314	Read a book or magazine (print or digital) about science trains	Ø	Φ	Q	0	Θ	VH639315		"have you done to create tense
topics d. Watch a short video clip. movie. or video	0	•	Q	0	Φ	V16639312	topics c. Used the Internet to learn about science topics	0	Ð	ø	٩	Θ	VH639314		consistency across items, (2
about science topics 2017 Grade 12)							 Watched a short video clip, movie, or video about science topics 	0	Ð	0	0	Φ	¥H639312		"(print or digital)" was
							 Used a magnifying glass or microscope for looking at small things 	0	₿	Ø	٩	Ð	YH639075		added to
							f. Used a thermometer or weighing scale for making measurements	Θ	9	0	0	Θ	VH639078		subitems "a" and "b" based on
							Issue: Organizatio	on of Inst	truction						stakeholder feedback, and (3) subitems "e and "f" were revised and added from VH639071 base on stakeholder

Previous item							2018 item							D/A/ R/NC+	Rationale
3. Thinking about science following? Select one :			ould be able t	o do each of th	ie	VHASING	 Thinking about science following activities? S 				do each of th	e	VH651609	R	The following revisions were
	I definitely can't	I probably can't	Maybe	I probably can	I definitely can			I definitely can't	I probably can't	Maybe	I probably can	I definitely can			made: (1)
 Describe the different procedures for heating or cooling a sample of water 	8	θ	0	۵	Ð	VH638558	a. Describe different ways to heat or cool water	8	0	Ø	Ø	θ	VH635868		Subitems "a", "b", "c", "d",
b. Design a model showing how the length of a vibrating string affects the	9	Ð	0	Ø	Ð	VH638870	b. Describe how the length of a vibrating string affects the sound it makes	\$	æ	Ø	Φ	Ð	VH638870		"e", "g" and "j were revised based on
motion of the waves that are produced c. Design an experiment				1			c. Design an experiment to show how sunlight affects the growth	0	Φ	O	۵	Ð	VH638872		editorial, expe
to show how sunlight affects the growth of a type of plant	00	Φ	0	۵	Φ	VH638872	of a plant d. Use examples to show how one living thing	0	Ð	0	0	Ð	VH638875		committee, an stakeholder
 Use evidence to show how one organism has helped the other to survive 	9	θ	0	θ	θ	VH638875	has helped another to survive e. Describe what would happen to the number	•	-			-			feedback, and (2) subitems "
 Use a food chain to show how the removal of one animal affects another 	0	θ	0	Φ	Φ	VH638876	of frogs at a pond if all the insects were removed from the pond	Ø	Ð	Ø	٢	Ð	VH638876		through "j" we reordered to
f. Design an experiment that allows a fair test of how the growth of a	0	9	9	Φ	Φ	VH638877	f. Decide which tool to use if you want to measure wind speed	8	Φ	0	Φ	Ð	VH635883		create consistency in
plant is affected by light, water, and soil quality	•	,					 g. Describe why the weather in the summer is different 	8	θ	Ð	Ð	θ	VH638885		presentation o cross-grade
g. Create a diagram that shows how bees and plants both depend on one another for survival through pollination	۵	9	0	۵	Φ	VH638878	than in the winter h. Design an experiment to test how the growth of a plant is affected by light, water, and soil quality	۵	Ð	Ø	Ð	Ð	VH635577		subitems (i.e., subitems "a" to "e", "i" and "j"
h. Describe how the combination of parental genes can result in different combinations of traits	0	θ	9	Φ	θ	VH638879	i. Create a diagram that shows how bees and plants need each other for survival	Ø	Ð	Θ	Ø	Ð	VH638878		
in their offspring, such as eye or hair color i. Decide which tool to use if you want to measure wind speed	0	Ð	Ø	Ø	Ð	VH638683	 Describe how the combination of parental genes can result in different traits in their offspring 	Θ	œ	Ø	Ø	Φ	YH638870		
 Predict the season based on a graph that shows the 30-day average temperature 	0	θ	0	Ø	Ð	VH638885	(for example, eye or hair color)	ctors							

Previous item							2018 item							D/A/ R/NC+	Rationale
4. How much does each one answer choice on a	of the follow each row.	ing statements	s describe a pe	erson like you	? Select	¥H639029	 How much does each choice on each row. 	of the follow	ring statement	ts describe yo	u? Select one a	answer	VH639(79	R	The following revisions were
	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me			Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me	1		made: (1) In the set leader
 I want other students to think I am good at science. 	θ	θ	0	Ø	θ	V1639080	 a. I want other students to think I am good at science. 	0	Ð	9	θ	Φ	VH639080		"describe a
 I want to show others that science schoolwork is easy for me. 	θ	θ	0	۵	Φ	VH639382	 I want to show others that science schoolwork is easy for me. 	0	æ	0	Φ	Φ	VH639082		person like you was changed to
c. I want to look smart in comparison to the other students in my science class,	Φ	œ	Θ	۵	Φ	VH539084	 c. I want to look smart in comparison to the other students in my science class. 	Ø	æ	9	Ø	Φ	VH639084		"describe you" based on expendence committee and
d. I want to learn as much as possible in my science class.	٩	99	0	۵	Φ	VH639086	d. I want to get better science grades than	Ø	æ	Q	Ø	Φ	VH731329		stakeholder
e. I want to become better in science this	Ø	Ð	0	Ø	Φ	VH639087	most other students in my class.	÷							feedback, and
year. f. I want to understand as much as I can in my	Ø	æ	©	۵	Φ	VH639089	e. I want to learn as much as possible in my science class.	Ø	00	0	Ð	Φ	VH639086		(2) subitems "c and "h" were
science class. 2017 Grade 12)							 I want to become better in science this year. 	0	æ	0	0	Φ	VH639087		added to ensur consistency
							g. I want to understand as much as I can in my science class.	Ø	Φ	9	Ø	Φ	VH639089		across subjects
							h. I want to master a lot of new science skills in my class.	0	Ð	θ	Ø	Ð	VH732330		(2018 social studies).

Previous item							2018 item							D/A/ R/NC+	Rationale
5. How often do you part school? Select one ans	icipate in ea wer choice o	ch of the follow n each row.	ving activities	outside of		VH638951	12. In this school year, how of school? Select one an	often have swer choice	you done each e on each row.	of the followi	ng activities o	outside	VH638951	R	The following revisions were
	Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	ſ		Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day			made: (1) In the set leader "How
 Carry out simple science-related projects with friends (for example, growing plants from beans or making sundials) 	Ø	Q D	Q	۵	Φ	¥H638970	 Work on science-related projects (for example, making a volcano, growing plants from seeds, or building 	Ø	œ.	9	Φ	θ	VH638970		often do you participate" wa changed to "In
 b. Carry out advanced science-related projects with friends (for example, designing 							simple rockets) b. Write or blog about science topics	Ø	Ð	0	Ð	Φ	VH638983		this school yea how often have
a model of a bridge, building simple rockets, or designing bird feeders)	Ø	0	Ø	٩	θ	VH638973	c. Use scientific tools (for example, microscopes, thermometers,	Ø	æ	0	Θ	Φ	VH638985		you done" to ensure
c. Volunteer with scientific researchers (for example, recording the types of plants or animals seen in a natural area, testing	۲	Ð	Ø	Ø	θ	VH638977	beakers, or weighing scales) d. Read about science topics in books or magazines (print or digital)	۵	0	Ø	۵	Θ	VH638987		consistency across items, (2 subitems "a" a "b" were
water samples in the neighborhood, helping a scientist in a lab) d. Write or blog about							e. Attend clubs or programs that include science or engineering			1.21			VH638991		combined and the example
science topics e. Use scientific instruments (for example, telescopes,	8	9 9	0	0	0 0	VH638985	activities (for example, chemistry club, robotics club, or coding programs)	0	D.	0	Φ	Ð	VH638991		content was revised based of
microscopes, scales) f. Read about science topics in books, magazines, or on	٩	œ	Ø	۵	θ	VHE38987	Issue: Student Fac	tors							cognitive interview study
digital devices g. Attend clubs or programs that include science activities	٩	Ð	Ø	۵	Φ	V1638988									results, (3) subitems "c" a
 Attend clubs or programs that include engineering activities (for example, build a robot, coding programs, etc.) 	٩	θ	Ø	θ	Φ	VH638991									"d" were dropped, (4) subitems "e"
2017 Grade 12)															and "f" wording was revised based on stakeholder feedback, and (5) subitems "g and "h" were combined and the example content was revised based of

Previous item							2018 item							D/A/ R/NC+	Rationale
															interview study results.
6. This school year, how class? Select one answ			ving things in ye	our science	27	VH69982)	14. In this school year, ho class? Select one answ			following activi	ties in your	science	VERGITAL	R	The following revisions were
5	Never or hardly ever	Once in a while	Sometimes	Often	Always or almost always			Never or hardly ever	Once in a while	Sometimes	Often	Always or almost always			made: (1) In the set leader "In"
 Came up with testable research questions, based on observation or investigation, that can explain how 	θ	θ	Ø	Ø	Φ	VH639834	a. Came up with research questions to explore how something works	Θ	₽	Ø	Ø	Ð	VH639744		was added to ensure
something works b. Made a detailed			1 2				Made drawings that explain why or how something happens	θ	9	ø	Ø	Ð	VIH639749		consistency across items, (2
physical or computer simulated model to show how an outcome is based on several factors	0	œ	Ø	۵	Φ	V14639835	c. Came up with experiments that you could use to answer a research question	0	θ	ø	۵	Ð	VH639753		"did you do" wa changed to
c. Evaluated the accuracy of a set of tests as part of a scientific investigation	θ	₽	Ø	Ø	Φ	VH639837	d. Used tables or graphs to identify relationships between variables	Θ	θ	۵	Ø	Φ	VH639760		"have you done", and (3) subitems "a",
 Evaluated the ethical concerns of a set of tests as part of a scientific investigation 	θ	Ð	ø	0	Φ	VI4639838	 Used math equations to explain or support scientific conclusions 	Θ	Ð	ø	Ø	Ð	VH639763		"b", "c", "d", "e
 Used multiple kinds of tables, graphs, or statistics to identify relationships between variables 	0	æ	Ø	Ø	Ð	VH639840	f. Used evidence from experiments to explain why something happens g. Used information to	0	0	0	Φ	Ð	VH639765		"f", "g", and "h were revised.
f. Used sets of mathematical rules to explain or support	θ	œ	Ø	۵	Φ	VH639842	disagree with someone about a scientific idea h. Combined information	0	Ð	Q	۵	Φ	VH639770		
g. Used evidence from experiments, measurements of variables, and known	0	æ	Ø	Ø	Φ	V14639843	about science from multiple sources (for example, books, websites, or articles) for an assignment	0	œ	Q	۵	Ð	VH630777		
scientific theories to explain why something happens							Issue: Student Fa	ctors							
 Responded to disagreement about a scientific idea by pointing out facts and theories that support the idea 	0	Φ	Ø	۵	Φ	V14639845									
 Combined information about science from multiple sources for an assignment, placing more emphasis on the sources that provide more credible information 	8	Φ	Ø	Ø	Φ	V1 1 639848									

Previous item				2018 item				D/A/ R/NC+	Rationale
 7. How likely are you to pursue a career in science Not at all likely Not likely Somewhat likely Quite likely Extremely likely 	eĭ		YH6A9971	 15. How likely are you to pursue a career in science Not at all likely Not likely Somewhat likely Quite likely Extremely likely Issue: Student Factors	27		VIRGERTI	NC	
 In this school year, have you done any of the for a career in science? Select one answer choice of 	ollowing to learn abo on each row.	ut or prepare for	¥H648721	 In this school year, have you done any of the fo career in science? Select one answer choice on 		o prepare for a	V0640721	R	The following revisions were
	Yes	No			Yes	No			made: (1) The
a. Attended a career fair	Ø	Φ	¥H640739	a. Attended a career fair	0	0	VH640739		word "interest",
Answered questions on a career test (for example, the Vocational Interest Inventory, the Career Interest Test, or the Strong Interest Inventory)	Ø	θ	VH640746	b. Answered questions on a career interest survey (for example, the Vocational-Interest Inventory, the Career Interest Test, or the Strong Interest Inventory [®])	Ø	œ	VH640746		a hyphen, and a trademark logo
c. Taken a science course in addition to what you need to graduate	0	9	VH640748	c. Taken a science course in addition to what	Ø	æ	VH640748		were added to
d. Learned about science-related careers on your own	۵	Φ	VH640749	you need to graduate d. Collected information about science-related careers on your own	0	•	VH640749		subitem "b"
e. Learned about science-related college programs on your own	Ø	Ð	¥H640750	e. Collected information about science-related college programs on your	0	Ð	VH640750		based on editorial and
f. Spoken with a guidance counselor or teacher about science-related careers	Ø	Ð	VH640754	own f. Spoken with a guidance counselor or					stakeholder
 g. Spoken with a guidance counselor or teacher about science-related college programs 	Ø	00	VH640757	teacher about science-related careers g. Spoken with a guidance counselor or	۵	Φ	VH640754		feedback, (2)
 Spoken with a family member or family friend who works in a scientific field about his/her iob 	Ø	69	VH640758	teacher about science-related college programs h. Spoken with a family member or family	۵	Ð	VH640757		"Learned" was changed to
i. Spoken with an adult at school who works in a scientific field about his/her job	Ø	Ð	VH640760	friend who works in a scientific field about his or her job	0	œ.	VH640758		"Collected
j. Shadowed a person who does science-related work at his/her job	0	θ	VH540771	 Shadowed a person who does science-related work at his or her job 	0	Ð	VH640771		information" in
k. Worked as an intern or employee doing science-related work	۲	Ð	VH640773	j. Worked as an intern or employee doing science-related work	۵	Φ	VH640773		subitems "c" an "d" based on
1. Other (Please specify):	0	θ	VH640776	k. Other (Please specify):	Ø	Ð	¥1640776		stakeholder
2017 Grade 12)				Issue: Student Factors					feedback, and subitem "i" was dropped for redundancy based on cognitive interview study results.

	Grade 12 Scie	nce St	udent						
Previous item	2018 item							D/A/ R/NC+	Rationale
 9. In this school year, how often did you approach your teacher to talk about how you are doing in science? Once in a while Sometimes Often Always or almost always 	N/A							D	This item was dropped based on stakeholder feedback.
(2017 Grade 12) 10. How often do you understand what the teacher talks about in science class? (a) Never or hardly ever (b) Once in a while (c) Sometimes (c) Often (c) Always or almost always (2017 Grade 12)	 I. In this school year, h science class? O Never or hardly of Once in a while Sometimes Often Always or almos Issue: Student I 	ever t always	ve you under	stood what t	the teacher t	alks about ir		R	The following revisions were made: (1) In the set leader "In this school year" was added to ensure consistency across items, and (2) "do you understand" was changed to "have you understood" to create tense
N/A	 How much does each choice on each row. 	h of the follow	ving statemen	ts describe yo	ou? Select one	answer	VD69913	A	consistency across items. This item was added to align
		Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like	1		Science with
	a. I enjoy science activities.	©	D D	©	©	me D	VH639117		previous
	b. I look forward to my science class.	۵	æ	ø	۵	Ð	VH639120		development for
	c. I am interested in the things I learn in science class.	Ø	Ð	Ø	۵	Ð	VH639122		other subjects (2017 Math,
	d. I think making an effort in science class is worthwhile.	۲	æ	Ø	۵	Ð	¥H639125		Reading, Writing).
	 e. I think science will help me even when I am not in school. f. I think it is important 	۲	œ	0	۵	œ	VH639127		
	 I think it is important to do well on science assignments. 	۲	Φ	Q	Ø	Ð	YH639128		
	Issue: Student	Factors							

	Grade 12 Science Student		
Previous item	2018 item	D/A/ R/NC+	Rationale
 11. How often do you do a good job on your science tests? Never or hardly ever Once in a while Sometimes Often Always or almost always (2017 Grade 12) 	 In this school year, how often have you done well on your science tests? Never or hardly ever Once in a while Sometimes Often Always or almost always Issue: Student Factors	V184.589990 R	The following revisions were made: (1) In the set leader "In this school year" was added to ensure consistency across items, and (2) "do you do a good job" was changed to "have you done well" to create tense consistency across items and based on editorial review.
N/A	 17. How often do you talk about things you have learned in science class with someone in your family? Never or hardly ever Once in a while Sometimes Often Very often Issue: Student Factors	VIII-DES A	This item was added to align Science with previous development for Core.
 3. Are you currently enrolled in or have you taken any online science courses for high school or college credit? ② Yes ③ No (2015 Grade 12) 	 7. Are you currently enrolled in or have you taken any online science courses for high school or college credit? ③ Yes ④ No Issue: Organization of Instruction 	NC	

	Grade 12 Science Student		
Previous item	2018 item	D/A/ R/NC+	Rationale
 12. How often do you do a good job on your science assignments? Never or hardly ever Once in a while Sometimes Often Always or almost always (2017 Grade 12) 	 3. In this school year, how often have you done well on your science assignments (for example, projects, homework, or worksheets)? Once in a while Sometimes Often Always or almost always Issue: Student Factors	R	The following revisions were made: (1) In the set leader "In this school year" was added to ensure consistency across items, (2) "do you do a good job" was changed to "have you done well" to create tense consistency across items and based on editorial review, and (3) example content was added based on cognitive interview feedback.
 6. Are you currently taking a science course? 	9. Are you currently taking a science course? ④ Yes ● No Issue: Organization of Instruction	NC	Please note the skip pattern information is no longer present given the transition from PPT to DBA. This item is classified as NC given the minute nature of this revision.

Previous item	2018 item	D/A/ R/NC+	Rationale
 4. Are you currently enrolled in or have you taken an Advanced Placement course in science? Fill in ovals for all that apply. Yes, I am enrolled in or have taken Advanced Placement Biology. Yes, I am enrolled in or have taken Advanced Placement Environmental Science. Yes, I am enrolled in or have taken Advanced Placement Chemistry. Yes, I am enrolled in or have taken Advanced Placement Physics B or C. Yes, I am enrolled in or have taken Advanced Placement Computer Science A or AB. No, I have never taken an Advanced Placement science course. (2015 Grade 12) 	 ************************************	R	The following revisions were made: (1) A trademark logo has been added to the item stem, (2), "Physics B" has been removed from response option D as it has been discontinued, (3) "Computer Science AB" has been removed from response option E as it has been discontinued, and 3 additional subitems have been added to account for new AP course offerings.

Appendix I-1i: Pilot Grade 4 Science

In the pilot assessments, not all questions presented in the questionnaire will be administered to an individual student. Rather, students will receive a subset of the questions, as indicated in the spiral map presented after the questionnaire.

Note that pilot items are labeled as 2019 pilot which indicates that they will be piloted in 2018 for operational use in 2019.

- Never or hardly ever
- ③ Once in a while
- © Sometimes
- Often
- C Very often

- **2.** In your science class this year, how often have you learned about electricity (for example, circuits, batteries, or light bulbs)?
 - Never or hardly ever
 - ③ Once in a while
 - © Sometimes
 - Often
 - © Very often

- **3.** In your science class this year, how often have you learned about chemicals (for example, vinegar, baking soda, or hydrogen peroxide)?
 - Never or hardly ever
 - ③ Once in a while
 - © Sometimes
 - Often
 - © Very often

146

- Never or hardly ever
- Once in a while
- © Sometimes
- Often
- © Very often

VH639037

- **5.** In your science class this year, how often have you done science activities using scientific tools (for example, microscopes, thermometers, beakers, or weighing scales)?
 - Never or hardly ever
 - [®] Once in a while
 - © Sometimes
 - Often
 - © Always or almost always

- **6.** In your science class this year, how often have you read from a science textbook (print or digital)?
 - O Never or hardly ever
 - [®] Once in a while
 - © Sometimes
 - Often
 - © Always or almost always

7. In your science class this year, how often have you learned about science topics on the Internet?

- Never or hardly ever
- Once in a while
- © Sometimes
- Often
- © Always or almost always

- **8.** In your science class this year, how often have you watched a short video clip, movie, or video about science topics?
 - Never or hardly ever
 - ③ Once in a while
 - © Sometimes
 - Often
 - © Always or almost always

- **9.** In your science class this year, how often have you been asked to write about science topics (for example, a science journal, lab report, or essay)?
 - Never or hardly ever
 - ③ Once in a while
 - © Sometimes
 - Often
 - © Always or almost always

- **10.** In this school year, how often have you understood what the teacher talks about in science class?
 - Never or hardly ever
 - Once in a while
 - © Sometimes
 - Often
 - © Always or almost always

- 11. In this school year, how often have you done well on your science tests?
 - Never or hardly ever
 - ③ Once in a while
 - © Sometimes
 - Often
 - © Always or almost always

- **12.** In this school year, how often have you done well on your science assignments (for example, projects, homework, or worksheets)?
 - Never or hardly ever
 - [®] Once in a while
 - © Sometimes
 - Often
 - © Always or almost always

		I definitely can't	I probably can't	Maybe	I probably can	I definitely can	
a.	Describe different ways to heat or cool water	Ø	ß	Ø	Ø	Ē	VH638868
b.	Describe how the length of a vibrating string affects the sound it makes	Ø	(9	0	Ø	¢	VH638870
c.	Design an experiment to show how sunlight affects the growth of a plant	Ø	ß	Ø	Ø	¢	VH638872
d.	Use examples to show how one living thing has helped another to survive	Ø	ഀ	Ø	Ø	¢	VH638875
e.	Describe what would happen to the number of frogs at a pond if all the insects were removed from the pond	0	θ	0	Ø	¢	VH638876
f.	Decide which tool to use if you want to measure wind speed	۵	₿	Q	Ø	Ē	VH638883
g.	Describe why the weather in the summer is different than in the winter	۵	₿	Ö	Ø	Ē	VH638885

13. Thinking about science, do you think that you would be able to do each of the following activities? Select **one** answer choice on each row.

		Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me	
a.	I want other students to think I am good at science.	Ø	®	O	Ø	Ē	VH639080
b.	I want to show others that science schoolwork is easy for me.	0	©	Ø	Ø	Ē	VH639082
c.	I want to look smart in comparison to the other students in my science class.	0	®	Ø	Ø	Ē	VH639084
d.	I want to get better science grades than most other students in my class.	Ø	ß	Ø	Ø	Ē	VH732329
e.	I want to learn as much as possible in my science class.	Ø	ß	Ø	Ø	Ē	VH639086
f.	I want to become better in science this year.	Ø	ß	Ø	Ø	Ē	VH639087
g.	I want to understand as much as I can in my science class.	Ø	ß	O	Ø	Ē	VH639089
h.	I want to master a lot of new science skills in my class.	Ø	®	Ø	Ø	Ē	VH732330

14. How much does each of the following statements describe you? Select **one** answer choice on each row.

VH638951

15.	In this school year, how often have you done each of the following activities outside
	of school? Select one answer choice on each row.

		Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	
a.	Work on science-related projects (for example, making a volcano, growing plants from seeds, or building simple rockets)	Ø	®	O	Ø	¢	VH638970
b.	Write or blog about science topics	A	ß	0	Ø	Ē	VH638983
C.	Use scientific tools (for example, microscopes, thermometers, beakers, or weighing scales)	0	®	Ø	Ø	¢	VH638985
d.	Read about science topics in books or magazines (print or digital)	0	®	Ø	Ø	¢	VH638987
e.	Attend clubs or programs that include science or engineering activities (for example, chemistry club, robotics club, or coding programs)	0	©	O	Ø	¢	VH638991

		Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me	
	ijoy science ivities.	Ø	B	0	Ø	Ē	VH639117
	ok forward to my ence class.	Ø	B	0	Ø	Ē	VH639120
thi	n interested in the ngs I learn in ence class.	0	B	Ø	Ø	Ē	VH639122
effc	nink making an ort in science class worthwhile.	0	B	Ø	Ø	Ē	VH639125
hel	nink science will p me even when I not in school.	0	B	Ø	Ø	Ē	VH639127
to c	nink it is important do well on science ignments.	A	B	O	Ø	Ē	VH639128

16. How much does each of the following statements describe you? Select **one** answer choice on each row.

		Never or hardly ever	Once in a while	Sometimes	Often	Always or almost always	
a.	Made a drawing that explains why or how something happens	(8)	®	O	Θ	Ē	VH639156
b.	Used a science experiment to answer a question	Ø	®	Ø	Ø	Ē	VH639162
c.	Put information you collected into a table or graph	Ø	®	Ø	Ø	Ē	VH639164
d.	Used evidence to explain why something happens	ß	®	O	Ø	Ē	VH639166
e.	Found news articles about science on the Internet	A	ß	©	Ø	Ē	VH639169

17. In this school year, how often have you done the following activities in your science class? Select **one** answer choice on each row.

VH743438

VH639149

18. How often do you talk about things you have learned in science class with someone in your family?

- (Never or hardly ever
- [®] Once in a while
- © Sometimes
- Often
- © Very often

Accnum Grade		Grade 4 OMB PDF Sequence Number	Number of Grade 4 booklets item appears in	Grade 4 booklets item appears in
VH639012	4	01_00	2	1, 2
VH639027	4	02_00	2	1, 2
VH639033	4	03_00	2	1, 2
VH639037	4	04_00	2	1, 2
VH639043	4	05_00	2	1, 2
VH639047	4	06_00	2	1, 2
VH639055	4	07_00	2	1, 2
VH639057	4	08_00	2	1, 2
VH639060	4	09_00	2	1, 2
VH638997	4, 8, 12	10_00	2	1, 2
VH638999	4, 8, 12	11_00	2	1, 2
VH639003	4, 8, 12	12_00	2	1, 2
VH638866	4, 8	13_00	2	1, 2
VH638868	4, 8, 12	13_01	2	1, 2
VH638870	4, 8, 12	13_02	2	1, 2
VH638872	4, 8, 12	13_04	2	1, 2
VH638875	4, 8, 12	13_05	2	1, 2
VH638876	4, 8, 12	13_06	2	1, 2
VH638883	4, 8, 12	13_07	2	1, 2
VH638885	4, 8, 12	13_08	2	1, 2
VH639079	4, 8, 12	14_00	2	1, 2
VH639080	4, 8, 12	14_01	2	1, 2
VH639082	4, 8, 12	14_02	2	1, 2
VH639084	4, 8, 12	14_03	2	1, 2
VH732329	4, 8, 12	14_04	2	1, 2
VH639086	4, 8, 12	14_05	2	1, 2
VH639087	639087 4, 8, 12 14_06		2	1, 2
VH639089	4, 8, 12	14_07	2	1, 2
VH732330	4, 8, 12	14_08	2	1, 2

Accnum	Grade	Grade 4 OMB PDFSequence Number	Number of Grade 4 booklets item appears in	Grade 4 booklets item appears in
VH638951	4, 8, 12	15_00	2	1, 2
VH638970	4, 8, 12	15_01	2	1, 2
VH638983	4, 8, 12	15_02	2	1, 2
VH638985	4, 8, 12	15_03	2	1, 2
VH638987	4, 8, 12	15_04	2	1, 2
VH638991	4, 8, 12	15_05	2	1, 2
VH639115	4, 8, 12	16_00	2	1, 2
VH639117	4, 8, 12	16_01	2	1, 2
VH639120	4, 8, 12	16_02	2	1, 2
VH639122	4, 8, 12	16_03	2	1, 2
VH639125	4, 8, 12	16_04	2	1, 2
VH639127	4, 8, 12	16_05	2	1, 2
VH639128	4, 8, 12	16_06	2	1, 2
VH639149	4	17_00	2	1, 2
VH639156	4	17_01	2	1, 2
VH639162	4	17_02	2	1, 2
VH639164	4	17_03	2	1, 2
VH639166	4	17_04	2	1, 2
VH639169	4	17_05	2	1, 2
VH743438	4, 8, 12	18_00	2	1, 2

Appendix I-1j: Pilot Grade 8 Science

In the pilot assessments, not all questions presented in the questionnaire will be administered to an individual student. Rather, students will receive a subset of the questions, as indicated in the spiral map presented after the questionnaire.

Note that pilot items are labeled as 2019 pilot which indicates that they will be piloted in 2018 for operational use in 2019.

- **1.** In this school year, how often have you understood what the teacher talks about in science class?
 - Never or hardly ever
 - Once in a while
 - © Sometimes
 - Often
 - © Always or almost always

VH638997

- 2. In this school year, how often have you done well on your science tests?
 - Never or hardly ever
 - ③ Once in a while
 - © Sometimes
 - Often
 - © Always or almost always

- **3.** In this school year, how often have you done well on your science assignments (for example, projects, homework, or worksheets)?
 - Never or hardly ever
 - [®] Once in a while
 - © Sometimes
 - Often
 - © Always or almost always

4. In your science class this year, how often have you done hands-on activities or projects on any of the following topics? Select **one** answer choice on each row.

		Never or hardly ever	Once in a while	Sometimes	Often	Very often	
a.	Living things (for example, plants, animals, or bacteria)	Ø	ß	O	Ø	Ē	VH639072
b.	Electricity (for example, circuits, batteries, or light bulbs)	0	℗	0	0	¢	VH639074
c.	Chemicals (for example, vinegar, baking soda, or hydrogen peroxide)	Ø	ഀ	0	0	¢	VH639073
d.	Rocks or minerals (for example, diamond, iron, or lava rock)	Ø	ß	Ø	0	Ē	VH639077
e.	Technology and engineering (for example, robots, pulley systems, or ramps)	0	℗	Ø	Ø	¢	VH639076

5. In your science class this year, how often have you done each of the following activities? Select **one** answer choice on each row.

		Never or hardly ever	Once in a while	Sometimes	Often	Always or almost always	
а.	Read from a science textbook (print or digital)	Ø	ß	O	0	Ē	VH639313
b.	Read a book or magazine (print or digital) about science topics	0	₿	0	Ø	Ē	VH639315
c.	Used the Internet to learn about science topics	Ø	ß	0	0	Ē	VH639314
d.	Watched a short video clip, movie, or video about science topics	0	B	Ø	Ø	Ē	VH639312
e.	Used a magnifying glass or microscope for looking at small things	Ø	ß	Ø	Θ	Ē	VH639075
f.	Used a thermometer or weighing scale for making measurements	0	ß	Ø	Ø	Ē	VH639078

- VH638866
- 6. Thinking about science, do you think that you would be able to do each of the following activities? Select **one** answer choice on each row.

		I definitely can't	I probably can't	Maybe	I probably can	I definitely can	
a.	Describe different ways to heat or cool water	Ø	ß	O	Ø	Ē	VH638868
b.	Describe how the length of a vibrating string affects the sound it makes	(9)	Θ	0	0	¢	VH638870
c.	Design an experiment to show how sunlight affects the growth of a plant	Ø	6	Ø	Ø	¢	VH638872
d.	Use examples to show how one living thing has helped another to survive	Ø	B	Ø	Ø	Ē	VH638875
e.	Describe what would happen to the number of frogs at a pond if all the insects were removed from the pond	Ø	ഀ	0	Ø	¢	VH638876
f.	Decide which tool to use if you want to measure wind speed	Ø	B	Q	Ø	Ē	VH638883
g.	Describe why the weather in the summer is different than in the winter	0	₿	Ø	Ø	¢	VH638885

7. How much does each of the following statements describe you? Select **one** answer choice on each row.

		Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me	
a.	I want other students to think I am good at science.	Ø	ß	Ø	Ø	Ē	VH639080
b.	I want to show others that science schoolwork is easy for me.	(9	6	0	Θ	Θ	VH639082
c.	I want to look smart in comparison to the other students in my science class.	9	6	0	Θ	e	VH639084
d.	I want to get better science grades than most other students in my class.	(9)	ß	Ø	Θ	Ē	VH732329
e.	I want to learn as much as possible in my science class.	Ø	ß	Ø	0	Ē	VH639086
f.	I want to become better in science this year.	(9)	ß	Ø	0	Ē	VH639087
g.	I want to understand as much as I can in my science class.	Ø	ß	Ø	Ø	Ē	VH639089
h.	I want to master a lot of new science skills in my class.	Ø	ß	O	Ø	Ē	VH732330

8. In this school year, how often have you done each of the following activities **outside of school**? Select **one** answer choice on each row.

		Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	
a.	Work on science-related projects (for example, making a volcano, growing plants from seeds, or building simple rockets)	0	®	O	Ø	¢	VH638970
b.	Write or blog about science topics	Ø	ß	0	Ø	Ē	VH638983
C.	Use scientific tools (for example, microscopes, thermometers, beakers, or weighing scales)	0	®	Ø	Ø	¢	VH638985
d.	Read about science topics in books or magazines (print or digital)	0	®	Ø	Ø	©	VH638987
e.	Attend clubs or programs that include science or engineering activities (for example, chemistry club, robotics club, or coding programs)	0	®	Ø	Ø	¢	VH638991

	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me	
a. I enjoy science activities.	Ø	®	O	Ø	Ē	VH639117
b. I look forward to my science class.	Ø	®	O	Ø	Ē	VH639120
c. I am interested in the things I learn in science class.	æ	®	Ø	Ø	Ē	VH639122
d. I think making an effort in science class is worthwhile.	Ø	®	O	Ø	Œ	VH639125
e. I think science will help me even when I am not in school.	Ø	®	O	Ø	Ē	VH639127
f. I think it is important to do well on science assignments.	Ø	®	O	Ø	Ē	VH639128

9. How much does each of the following statements describe you? Select **one** answer choice on each row.

		Never or hardly ever	Once in a while	Sometimes	Often	Always or almost always	
a.	Came up with research questions to explore how something works	Ø	6	Q	Ø	Ē	VH639744
b.	Made drawings that explain why or how something happens	Ø	ß	O	0	Ē	VH639749
c.	Came up with experiments that you could use to answer a research question	Ø	ß	O	Ø	¢	VH639753
d.	Used tables or graphs to identify relationships between variables	Ø	®	Ø	Ø	Ē	VH639760
e.	Used math equations to explain or support scientific conclusions	Ø	B	Ø	0	Ē	VH639763
f.	Used evidence from experiments to explain why something happens	Ø	®	Ø	Ø	Ē	VH639765
g.	Used information to disagree with someone about a scientific idea	Ø	ß	Ø	0	Ē	VH639770
h.	Combined information about science from multiple sources (for example, books, websites, or articles) for an assignment	Ø	®	Ø	Ø	Ē	VH639777

10. In this school year, how often have you done the following activities in your science class? Select **one** answer choice on each row.

11. How often do you talk about things you have learned in science class with someone in your family?

- (a) Never or hardly ever
- [®] Once in a while
- © Sometimes
- Often
- © Very often

Accnum Grade		Grade 8 OMB PDF Sequence Number	Number of Grade 8 booklets item appears in	Grade 8 booklets item appears in
VH638997	VH638997 4, 8, 12 01		2	1, 2
VH638999	4, 8, 12	02_00	2	1, 2
VH639003	4, 8, 12	03_00	2	1, 2
VH639071	8, 12	04_00	2	1, 2
VH639072	8, 12	04_01	2	1, 2
VH639074	8, 12	04_02	2	1, 2
VH639073	8, 12	04_03	2	1, 2
VH639077	8, 12	04_04	2	1, 2
VH639076	8, 12	04_05	2	1, 2
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VH639313	8, 12	05_01	2	1, 2
VH639315	8, 12	05_02	2	1, 2
VH639314	8, 12	05_03	2	1, 2
VH639312	8, 12	05_04	2	1, 2
VH639075	8, 12	05_05	2	1, 2
VH639078	8, 12	05_06	2	1, 2
VH638866	4, 8	06_00	2	1, 2
VH638868	4, 8, 12	06_01	2	1, 2
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VH638872	4, 8, 12	06_03	2	1, 2
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VH638876	4, 8, 12	06_05	2	1, 2
VH638883	4, 8, 12	06_06	2	1, 2
VH638885	4, 8, 12	06_07	2	1, 2
VH639079	4, 8, 12	07_00	2	1, 2
VH639080	4, 8, 12	07_01	2	1, 2
VH639082	4, 8, 12	07_02	2	1, 2
VH639084	4, 8, 12	07_03	2	1, 2
VH732329	4, 8, 12	07_04	2	1, 2

Accnum Grade		Grade 8 OMB PDFSequence Number	Number of Grade 8 booklets item appears in	Grade 8 booklets item appears in
VH639086	4, 8, 12	07_05	2	1, 2
VH639087	4, 8, 12	07_06	2	1, 2
VH639089	4, 8, 12	07_07	2	1, 2
VH732330	4, 8, 12	07_08	2	1, 2
VH638951	4, 8, 12	08_00	2	1, 2
VH638970	4, 8, 12	08_01	2	1, 2
VH638983	4, 8, 12	08_02	2	1, 2
VH638985	4, 8, 12	08_03	2	1, 2
VH638987	4, 8, 12	08_04	2	1, 2
VH638991	4, 8, 12	08_05	2	1, 2
VH639115	4, 8, 12	09_00	2	1, 2
VH639117	4, 8, 12	09_01	2	1, 2
VH639120	4, 8, 12	09_02	2	1, 2
VH639122	4, 8, 12	09_03	2	1, 2
VH639125	4, 8, 12	09_04	2	1, 2
VH639127	4, 8, 12	09_05	2	1, 2
VH639128	4, 8, 12	09_06	2	1, 2
VH639733	8, 12	10_00	2	1, 2
VH639744	8, 12	10_01	2	1, 2
VH639749	8, 12	10_02	2	1, 2
VH639753	8, 12	10_03	2	1, 2
VH639760	8, 12	10_04	2	1, 2
VH639763	8, 12	10_05	2	1, 2
VH639765	8, 12	10_06	2	1, 2
VH639770	8, 12	10_07	2	1, 2
VH639777	8, 12	10_08	2	1, 2
VH743438	4, 8, 12	11_00	2	1, 2

Appendix I-1k: Pilot Grade 12 Science

In the pilot assessments, not all questions presented in the questionnaire will be administered to an individual student. Rather, students will receive a subset of the questions, as indicated in the spiral map presented after the questionnaire.

Note that pilot items are labeled as 2019 pilot which indicates that they will be piloted in 2018 for operational use in 2019.

- **1.** In this school year, how often have you understood what the teacher talks about in science class?
 - Never or hardly ever
 - Once in a while
 - © Sometimes
 - Often
 - © Always or almost always

VH638997

- 2. In this school year, how often have you done well on your science tests?
 - Never or hardly ever
 - ③ Once in a while
 - © Sometimes
 - Often
 - © Always or almost always

- **3.** In this school year, how often have you done well on your science assignments (for example, projects, homework, or worksheets)?
 - Never or hardly ever
 - [®] Once in a while
 - © Sometimes
 - Often
 - © Always or almost always

4. In your science class this year, how often have you done hands-on activities or projects on any of the following topics? Select **one** answer choice on each row.

		Never or hardly ever	Once in a while	Sometimes	Often	Very often	
a.	Living things (for example, plants, animals, or bacteria)	Ø	ß	O	Ø	Ē	VH639072
b.	Electricity (for example, circuits, batteries, or light bulbs)	0	®	O	Ø	¢	VH639074
c.	Chemicals (for example, vinegar, baking soda, or hydrogen peroxide)	0	®	Ø	0	¢	VH639073
d.	Rocks or minerals (for example, diamond, iron, or lava rock)	(9)	6	Ø	0	Ē	VH639077
e.	Technology and engineering (for example, robots, pulley systems, or ramps)	0	6	O	Ø	Ē	VH639076

5. In your science class this year, how often have you done each of the following activities? Select **one** answer choice on each row.

		Never or hardly ever	Once in a while	Sometimes	Often	Always or almost always	
а.	Read from a science textbook (print or digital)	Ø	ß	O	0	Ē	VH639313
b.	Read a book or magazine (print or digital) about science topics	(9)	(9	Ø	Θ	G	VH639315
c.	Used the Internet to learn about science topics	Ø	®	0	0	Ē	VH639314
d.	Watched a short video clip, movie, or video about science topics	0	ß	0	0	Ē	VH639312
e.	Used a magnifying glass or microscope for looking at small things	Ø	ß	Ø	Ø	Ē	VH639075
f.	Used a thermometer or weighing scale for making measurements	(9)	ß	Ø	Ø	Ē	VH639078

6. Which courses have you taken from eighth grade to the present? If you have taken a course more than once, give the most recent year you took it. Select **one** answer choice on each row. INCLUDE courses taken in summer school, but DO NOT INCLUDE topics that were only taught as part of a longer course.

		I did not take this course.	I took this course in Grade 8.	I took this course in Grade 9.	I took this course in Grade 10.	I took this course in Grade 11.	I am taking or have taken this course in Grade 12.	
a.	General science	Ø	®	O	D	Ē	Ē	VH241150
b.	First-year biology	A	®	©	D	Ē	Ð	VH241151
c.	Second-year biology	A	®	O	D	Ē	Ē	VH241159
d.	Life science (other than biology)	A	®	O	D	Ē	Ē	VH241148
e.	First-year chemistry	A	®	O	Ø	Ē	Ð	VH241154
f.	Second-year chemistry	A	®	O	Ø	Ē	Ð	VH241155
g.	First-year physics	A	®	©	O	Ē	Ē	VH241156
h.	Second-year physics	A	®	O	Ø	Ē	Ē	VH241157
i.	Physical science (other than chemistry or physics)	Ø	®	Ø	Ø	Ē	Ē	VH241149
j.	Earth and space science	A	B	0	D	Ē	Ē	VH241147
k.	Engineering and technology	A	®	O	D	Ē	Ē	VH241158
1.	Other science course (Please specify):	Ø	®	Q	Ø	¢	Ē	VH241153

VH240111

- 7. Are you currently enrolled in or have you taken any online science courses for high school or college credit?
 - (D) Yes

B No

- 8. Are you currently enrolled in or have you taken an Advanced Placement[®] course in science? Select **all** that apply.
 - Tes, I am enrolled in or have taken Advanced Placement Biology.
 - (1) Yes, I am enrolled in or have taken Advanced Placement Environmental Science.
 - © Yes, I am enrolled in or have taken Advanced Placement Chemistry.
 - ^(D) Yes, I am enrolled in or have taken Advanced Placement Physics C.
 - © Yes, I am enrolled in or have taken Advanced Placement Physics 1.
 - © Yes, I am enrolled in or have taken Advanced Placement Physics 2.
 - © Yes, I am enrolled in or have taken Advanced Placement Computer Science A.
 - (D) Yes, I am enrolled in or have taken Advanced Placement Computer Science Principles.
 - No, I have never taken an Advanced Placement science course.

- 9. Are you currently taking a science course?
 - (A) Yes
 - B No

10. Thinking about science, do you think that you would be able to do each of the following activities? Select **one** answer choice on each row.

		I definitely can't	I probably can't	Maybe	I probably can	I definitely can	
a.	Describe different ways to heat or cool water	0	B	Ø	Ø	Ē	VH638868
b.	Describe how the length of a vibrating string affects the sound it makes	0	θ	0	Ø	¢	VH638870
c.	Design an experiment to show how sunlight affects the growth of a plant	0	6	Ø	Ø	Ē	VH638872
d.	Use examples to show how one living thing has helped another to survive	0	ß	Ø	Ø	Ē	VH638875
	Describe what would happen to the number of frogs at a pond if all the insects were removed from the pond	0	Θ	Ø	Ø	Ē	VH638876
f.	Decide which tool to use if you want to measure wind speed	Ø	ß	Ø	Ø	Ē	VH638883
g.	Describe why the weather in the summer is different than in the winter	0	(9	Ø	Ø	¢	VH638885
h.	Design an experiment to test how the growth of a plant is affected by light, water, and soil quality	0	ഀ	Ø	Ø	¢	VH638877
i.	Create a diagram that shows how bees and plants need each other for survival	(9	Θ	0	Ø	¢	VH638878
j.	Describe how the combination of parental genes can result in different traits in their offspring (for example, eye or hair color)	0	®	©	Ø	¢	VH638879

11. How much does each of the following statements describe you? Select or	ie answer
choice on each row.	

		Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me	
a.	I want other students to think I am good at science.	Ø	ß	Ø	Ø	Ē	VH639080
b.	I want to show others that science schoolwork is easy for me.	0	6	0	Θ	Ē	VH639082
c.	I want to look smart in comparison to the other students in my science class.	0	6	0	Θ	Θ	VH639084
d.	I want to get better science grades than most other students in my class.	0	ß	Ø	Θ	Ē	VH732329
e.	I want to learn as much as possible in my science class.	(9	ß	Ø	Θ	Ð	VH639086
f.	I want to become better in science this year.	8	ß	Ø	0	Ē	VH639087
g.	I want to understand as much as I can in my science class.	Ø	ß	Ø	Ø	Ē	VH639089
h.	I want to master a lot of new science skills in my class.	Ø	ß	Ø	Ø	Ē	VH732330

12. In this school year, how often have you done each of the following activities **outside of school**? Select **one** answer choice on each row.

		Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	
a.	Work on science-related projects (for example, making a volcano, growing plants from seeds, or building simple rockets)	0	®	O	Ø	¢	VH638970
b.	Write or blog about science topics	Ø	B	0	Ø	Ē	VH638983
C.	Use scientific tools (for example, microscopes, thermometers, beakers, or weighing scales)	0	®	Ø	Ø	¢	VH638985
d.	Read about science topics in books or magazines (print or digital)	0	®	Ø	Ø	©	VH638987
e.	Attend clubs or programs that include science or engineering activities (for example, chemistry club, robotics club, or coding programs)	0	℗	Ø	Ø	¢	VH638991

	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me	
a. I enjoy science activities.	۵	®	O	Ø	Ē	VH639117
b. I look forward to m science class.	y 🔊	®	O	Ø	Ē	VH639120
c. I am interested in things I learn in science class.	he 🖉	®	O	Ø	Ē	VH639122
d. I think making an effort in science cla is worthwhile.	ss 💿	®	O	Ø	Ē	VH639125
e. I think science will help me even when am not in school.		®	O	Ø	Ē	VH639127
f. I think it is importa to do well on science assignments.		®	O	©	Ē	VH639128

13. How much does each of the following statements describe you? Select **one** answer choice on each row.

		Never or hardly ever	Once in a while	Sometimes	Often	Always or almost always	
a.	Came up with research questions to explore how something works	Ø	®	Ø	Ø	Ē	VH639744
b.	Made drawings that explain why or how something happens	0	6	Ø	0	Ē	VH639749
c.	Came up with experiments that you could use to answer a research question	Ø	ß	O	Ø	¢	VH639753
d.	Used tables or graphs to identify relationships between variables	Ø	₿	Ø	Ø	Ē	VH639760
e.	Used math equations to explain or support scientific conclusions	Ø	B	Ø	Ø	Ē	VH639763
f.	Used evidence from experiments to explain why something happens	Ø	₿	Ø	Ø	Ē	VH639765
g.	Used information to disagree with someone about a scientific idea	Ø	ß	Ø	Ø	Ē	VH639770
h.	Combined information about science from multiple sources (for example, books, websites, or articles) for an assignment	0	®	Ø	Ø	Ē	VH639777

14. In this school year, how often have you done the following activities in your science class? Select **one** answer choice on each row.

15. How likely are you to pursue a career in science?

- Not at all likely
- Not likely
- © Somewhat likely
- O Quite likely
- © Extremely likely

VH640721

16. In this school year, have you done any of the following activities to prepare for a career in science? Select **one** answer choice on each row.

		Yes	No	
a.	Attended a career fair	Ø	®	VH640739
b.	Answered questions on a career interest survey (for example, the Vocational-Interest Inventory, the Career Interest Test, or the Strong Interest Inventory [®])	0	®	VH640746
c.	Taken a science course in addition to what you need to graduate	0	®	VH640748
d.	Collected information about science-related careers on your own	0	(6)	VH640749
e.	Collected information about science-related college programs on your own	0	®	VH640750
f.	Spoken with a guidance counselor or teacher about science-related careers	Ø	(6)	VH640754
g.	Spoken with a guidance counselor or teacher about science-related college programs	0	(6)	VH640757
h.	Spoken with a family member or family friend who works in a scientific field about his or her job	Ø	(6)	VH640758
i.	Shadowed a person who does science-related work at his or her job	Ø	®	VH640771
j.	Worked as an intern or employee doing science-related work	0	(6)	VH640773
k.	Other (Please specify):	Ø	(6)	VH640776

17. How often do you talk about things you have learned in science class with someone in your family?

- (a) Never or hardly ever
- [®] Once in a while
- © Sometimes
- Often
- © Very often

Accnum	Grade	Grade 12 OMB PDF Sequence Number	Number of Grade 12 booklets item appears in	Grade 12 booklets item appears in
VH638997	4, 8, 12	01_00	3	1, 3, 4, 6
VH638999	4, 8, 12	02_00	3	1, 3, 4, 6
VH639003	4, 8, 12	03_00	3	1, 3, 4, 6
VH639071	8, 12	04_00	3	1, 3, 4, 6
VH639072	8, 12	04_01	3	1, 3, 4, 6
VH639074	8, 12	04_02	3	1, 3, 4, 6
VH639073	8, 12	04_03	3	1, 3, 4, 6
VH639077	8, 12	04_04	3	1, 3, 4, 6
VH639076	8, 12	04_05	3	1, 3, 4, 6
VH639311	8, 12	05_00	3	1, 3, 4, 6
VH639313	8, 12	05_01	3	1, 3, 4, 6
VH639315	8, 12	05_02	3	1, 3, 4, 6
VH639314	8, 12	05_03	3	1, 3, 4, 6
VH639312	8, 12	05_04	3	1, 3, 4, 6
VH639075	8, 12	05_05	3	1, 3, 4, 6
VH639078	8, 12	05_06	3	1, 3, 4, 6
VH241146	12	06_00	4	1, 2, 4, 5
VH241150	12	06_01	4	1, 2, 4, 5
VH241151	12	06_02	4	1, 2, 4, 5
VH241159	12	06_03	4	1, 2, 4, 5
VH241148	12	06_04	4	1, 2, 4, 5
VH241154	12	06_05	4	1, 2, 4, 5
VH241155	12	06_06	4	1, 2, 4, 5
VH241156	12	06_07	4	1, 2, 4, 5
VH241157	12	06_08	4	1, 2, 4, 5
VH241149	12	06_09	4	1, 2, 4, 5
VH241147	12	06_10	4	1, 2, 4, 5
VH241158	12	06_11	4	1, 2, 4, 5
VH241153	12	06_12	4	1, 2, 4, 5

Accnum	Grade	Grade 12 OMB PDFSequence Number	Number of Grade 12 booklets item appears in	Grade 12 booklets item appears in
VH240111	12	07_00	4	1, 2, 4, 5
VH240377	12	08_00	4	1, 2, 4, 5
VH240112	12	09_00	4	1, 3, 4, 6
VH638866	4, 8	10_00	4	1, 3, 4, 6
VH651609	12	10_00	4	1, 3, 4, 6
VH638868	4, 8, 12	10_01	4	1, 3, 4, 6
VH638870	4, 8, 12	10_02	4	1, 3, 4, 6
VH638872	4, 8, 12	10_03	4	1, 3, 4, 6
VH638875	4, 8, 12	10_04	4	1, 3, 4, 6
VH638876	4, 8, 12	10_05	4	1, 3, 4, 6
VH638883	4, 8, 12	10_06	4	1, 3, 4, 6
VH638885	4, 8, 12	10_07	4	1, 3, 4, 6
VH638877	12	10_08	4	1, 3, 4, 6
VH638878	12	10_09	4	1, 3, 4, 6
VH638879	12	10_10	4	1, 3, 4, 6
VH639079	4, 8, 12	11_00	4	1, 2, 4, 5
VH639080	4, 8, 12	11_01	4	1, 2, 4, 5
VH639082	4, 8, 12	11_02	4	1, 2, 4, 5
VH639084	4, 8, 12	11_03	4	1, 2, 4, 5
VH732329	4, 8, 12	11_04	4	1, 2, 4, 5
VH639086	4, 8, 12	11_05	4	1, 2, 4, 5
VH639087	4, 8, 12	11_06	4	1, 2, 4, 5
VH639089	4, 8, 12	11_07	4	1, 2, 4, 5
VH732330	4, 8, 12	11_08	4	1, 2, 4, 5
VH638951	4, 8, 12	12_00	4	1, 2, 4, 5
VH638970	4, 8, 12	12_01	4	1, 2, 4, 5
VH638983	4, 8, 12	12_02	4	1, 2, 4, 5
VH638985	4, 8, 12	12_03	4	1, 2, 4, 5
VH638987	4, 8, 12	12_04	4	1, 2, 4, 5

Accnum	Grade	Grade 12 OMB PDFSequence Number	Number of Grade 12 booklets item appears in	Grade 12 booklets item appears in
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VH639117	4, 8, 12	13_01	4	2, 3, 5, 6
VH639120	4, 8, 12	13_02	4	2, 3, 5, 6
VH639122	4, 8, 12	13_03	4	2, 3, 5, 6
VH639125	4, 8, 12	13_04	4	2, 3, 5, 6
VH639127	4, 8, 12	13_05	4	2, 3, 5, 6
VH639128	4, 8, 12	13_06	4	2, 3, 5, 6
VH639733	8, 12	14_00	4	2, 3, 5, 6
VH639744	8, 12	14_01	4	2, 3, 5, 6
VH639749	8, 12	14_02	4	2, 3, 5, 6
VH639753	8, 12	14_03	4	2, 3, 5, 6
VH639760	8, 12	14_04	4	2, 3, 5, 6
VH639763	8, 12	14_05	4	2, 3, 5, 6
VH639765	8, 12	14_06	4	2, 3, 5, 6
VH639770	8, 12	14_07	4	2, 3, 5, 6
VH639777	8, 12	14_08	4	2, 3, 5, 6
VH639871	12	15_00	4	2, 3, 5, 6
VH640721	12	16_00	4	2, 3, 5, 6
VH640739	12	16_01	4	2, 3, 5, 6
VH640746	12	16_02	4	2, 3, 5, 6
VH640748	12	16_03	4	2, 3, 5, 6
VH640749	12	16_04	4	2, 3, 5, 6
VH640750	12	16_05	4	2, 3, 5, 6
VH640754	12	16_06	4	2, 3, 5, 6
VH640757	12	16_07	4	2, 3, 5, 6
VH640758	12	16_08	4	2, 3, 5, 6
VH640771	12	16_09	4	2, 3, 5, 6
VH640773	12	16_10	4	2, 3, 5, 6

Spiral Map Grade 12 Science

Accnum	Grade	Grade 12 OMB PDFSequence Number	Number of Grade 12 booklets item appears in	Grade 12 booklets item appears in
VH640776	12	16_11	4	2, 3, 5, 6
VH743438	4, 8, 12	17_00	4	1, 3, 4, 6

Appendix I-1I: Summary of Revisions Grade 8 Civics

Previous item							2018 item							D/A/ R/NC+	Rationale
1. In which of the follow government? Select of				ics and/or Unite	d States	VIMBERT	I. In which of the followin government? Select 01				cs and/or United	States	VILLAUTY	R	Subitem "a" was dropped given
	Yes, I t class or mai focuse civics a United govern	ook a course nly d on ind/or States go	es, I took a ss or course at included ome civics d/or United States wernment topics.	No, I did not take a class or course that taught civics and/or United States government topics.	I don' t remember.			Yes, I to class or i main focuse civics a United 3 govern	d on states	Yes, I took a lass or course hat included some civics nd/or United States government topics.	No, I did not take a class or course that taught civics and/or United States government topics.	I don't remember.			the high frequency percentage for the response "I
a. 5th grade	a	x 1	٢	Ø	ø	¥19457393	a. 6th grade	0		Ø	ø	¢.	VILLATING		don't know".
b. 6th grade	a		®	0	Ð	V19457394	b. 7th grade	۵		Ð	ø	¢	VIBLITIN.		
e. 7th grade d. 8th grade	3		0	0	@ @	VHALT596	c. 8th grade	0		Ð	ø	0	VIIII: SP		
									1	L Lander	E. Like City		V11297950		
2. In your social studies	class this year	, how much	i have you st	udied the follow:	ing	VI842735	 In your social studies of topics? Select one ansy 	ver choice on	each row.	_			vicinie	R	
2. In your social studies topics? Select one ans	class this year wer choice on Not at all	, how much each row. Very little		udied the follow	ng A lot	VUMETIN	topics? Select ODE ans a. The United States	ass this year, wer choice on Not at all ®	how much each row. Very litt D	_	died the followin Quite a bit	S A lot	VILISTRO VILISTRO VILISTRO	R	Subitem "e" wa dropped given that United
topics? Select one ans a. The United States Constitution	wer choice on	each row.				VI141735) \$79457358	a. The United States Constitution b. The three branches of the United States	ver choice on Not at all	each row. Very litt	tle Some	Quite a bit	A lot		R	dropped given that United States
topics? Select one ans a. The United States Constitution b. The three branches of the United States government (executive, judicial,	wer choice on Not at all	each row. Very little	2 Some	Quite a bit	A lot	VI845155 979457354 979457354	a. The United States Constitution b. The three branches of the United States government (executive, judicial, and legislative branches)	wer choice on Not at all co	each row. Very litt D	tle Some	Quite a bit	A lot	VIB/730	R	dropped given that United States government is already being
topics? Select one ans a. The United States Constitution b. The three branches of the United States government	wer choice on Not at all D	each row. Very little ®	2 Some	Quite a bit	A lot D	VIBATIS) 976657336 976657336	a. The United States Constitution b. The three branches of the United States government (executive, judicial, and legislative branches) c. How laws are made	ver choice on Not at all 30 00	each row. Very litt D D	tle Some © ©	Quite a bit	A lot © ©	VIBSTUR VIBSTUR	R	that United States government is already being captured in
topics? Select one ans a. The United States Constitution b. The three branches of the United States government (executive, judicial, and legislative branches) c. How laws are made	wer choice on Not at all D	each row. Very little ®	2 Some	Quite a bit	A lot D	VILIETEM 979457328. 979457329	a. The United States Constitution b. The three branches of the United States government (executive, judicial, and legislative branches)	wer choice on Not at all co	each row. Very litt D	tle Some	Quite a bit	A lot	VIB/730	R	dropped given that United States government is already being captured in subitems "a" ar
topics? Select one ans constitution b. The three branches of the United States government (executive, judicial, and legislative branches) c. How laws are made d. Political parties, elections, and voting	wer choice on Not at all	each row. Very little ® ® @ @	2 Some © © © © ©	Quite a bit	A lot (D) (D) (D) (D) (D) (D) (D) (D)	979457338 979457338 979457358 979457368	a. The United States Constitution b. The three branches of the United States government (executive, judicial, and legislative branches) c. How laws are made d. Political parties, elections, and voting e. Other countries' governments (for	ver choice on Not at all 30 00	each row. Very litt D D	tle Some © ©	Quite a bit	A lot © ©	VIBSTUR VIBSTUR	R	dropped given that United States government is already being captured in subitems "a" ar "b". State and
topics? Select one ans constitution b. The United States Constitution b. The three branches of the United States government (executive, judicial, and legislative branches) c. How laws are made d. Political partics, elections, and voting e. State government and local government f. Other countries'	wer choice on Not at all	each row. Very little ® ®	2 Some © ©	Quite a bit	A lot © © ©	¥79457338 ¥79457338 ¥79457339	a. The United States Constitution b. The three branches of the United States government (executive, judicial, and legislative branches) c. How laws are made d. Political parties, elections, and voting e. Other countries' governments (for example, their structure, how they are run, or interactions	ver choice on Not at all 30 00	each row. Very litt D D	tle Some © ©	Quite a bit	A lot © ©	VIBSTUR VIBSTUR	R	dropped given that United States government is already being captured in subitems "a" ar
topics? Select one ans constitution b. The United States Constitution b. The three branches of the United States government (executive, judicial, and legislative branches) c. How laws are made d. Political parties, elections, and voting e. State government and local government f. Other countries' governments (for example, their structure, how they are run, or interactions with the United States)	wer choice on Not at all	each row. Very little ® ® @ @	2 Some © © © © ©	Quite a bit	A lot (D) (D) (D) (D) (D) (D) (D) (D)	979457338 979457338 979457358 979457368	a. The United States Constitution b. The three branches of the United States government (executive, judicial, and legislative branches) c. How laws are made d. Political parties, elections, and voting e. Other countries governments (for example, their structure, how they are run, or interactions with the United States) f. International organizations (for example, the United Nations, World Bank,	ver choice on Not at all 60 60 60 60	each row. Very litt Φ Φ Φ Φ	ele Some	Quite a bit	A lot © © © ©	Visiona Visiona Visiona Visiona	R	dropped given that United States government is already being captured in subitems "a" ar "b". State and local government is
topics? Select one ans constitution b. The United States constitution b. The three branches of the United States government (executive, judicial, and legislative branches) c. How laws are made d. Political parties, elections, and voting e. State government and local government f. Other countries' governments (for example, their structure, how they are run, or interactions with the United	wer choice on Not at all	very little	2 Some © © © © ©	Quite a bit	A lot © © © © © ©	979452334 979452334 979452334 979452344 979452346 979452346	topics? Select one ans a. The United States Constitution b. The three branches of the United States government (executive, judicial, and legislative branches) c. How laws are made d. Political parties, elections, and voting e. Other countries' governments (for example, their structure, how they are run, or interactions with the United States) f. International organizations (for example, the United	ver choice on Not at all o o o o o o o o o o o o o o o o o o	each row. Very litt D D D D	tle Some	Quite a bit	A lot © © © © © ©	91867167 91867169 91867169 91867169 91867169	R	dropped given that United States government is already being captured in subitems "a" an "b". State and local government is also captured in VH457506 and

Previous item							2018 item							D/A/ R/NC+	Rationale
 During this school year choice on each row. 	, how often o	do you do each	of the followi	ng? Select one	answer	VIMITARI	3. During this school year, one answer choice on e	how often o ach row.	lo you do each	of the fallowi	ng activities?	Select	ALLER	R	The item stem
i 1	Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day			Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day			per Translatability
a. Read material from a civics and/or United States government textbook	60	Ð	9	⊕	Ð	V35457410	 Read material from a civics and/or United States government textbook (print or 	æ	ø	9	θ	θ	ALLINES		Review to add "activities" after
Read extra material about civics and/or United States government not in the regular textbook (for example, newspapers, magazines, or online sources)	Ø	œ	0	θ	Ð	979457411	digital) b. Read extra material about civics and/or United States government not in the regular textbook (for example, newspapers, magazines, or online	8	Φ	9	æ	Ð	WP/LACO		"the following". Revisions were made to subiter
c. Discuss material about civics and/or United States government with peers or teachers	Ø	Ð	0	Ð	Ð	VHA57413	sources) c. Conduct research about civics and/or					-			"a" to include print or digital
d. Conduct research about civics and/or United States government topics (for example, in a library	æ	æ	Ø	θ	Ð	¥79457415	United States government topics (for example, online, in a library, or through interviews)	dp.	Φ	9	₽	θ	VIPLES		books, and to maintain consistency wit
or through interviews or observations) e. Listen to or watch movies, videos, or online content about civics and/or United States government	æ	æ	Ø	æ	Ð	¥19457817	d. Listen to or watch movies, videos, or online content about civics and/or United States government topics	æ	Φ	Ø	æ	æ	varlase.		changes made to other survey questionnaires.
2017 Grade 8)							Issue: Organizatio	n of Ins	struction						Subitem "c" wa dropped to reduce burden.
															Revisions were made to subite "d" to clarify th examples given

revious item							2018 item							D/A/ R/NC+	Rationale
 During this school yea one answer choice on 		often have ye	ou done each of	the following	Select	WHEN DI	 During this school year activities? Select one at 	so far, how of aswer choice	ften have you on each row	a done each of	the following	1	Variation	R	The item stem has been revise
	Never	Once	Two or three times	Four or five	More than five times			Never	Once	Two or three times	Four or five times	More than five times	111		per
 a. Gone on class field trips to learn about civics and/or United States government topics 	đĐ	Ð	ø	œ	æ	VH457429	 Cone on class field trips to learn about civics and/or United States government topics 	8	Φ	Ø	Ð	Ð	VIII ⁰ 16068		Translatability Review to add "activities" afte
 b. Given class presentations on civics and/or United States government topics 	Ø	æ	Ø	æ	æ	V1457431	b. Given class presentations on civics and/or United States government topics	ø	Φ	Ø	9	Ð	VIII ILIKO		"the following"
c. Written about your opinion on a community problem or social issue (for example, in a letter, e-mail, or blog post)	ġ	Ð	Ø	æ	Ð	\$76457456	c. Written about your opinion on a community problem or social issue (for example, in a letter, e-mail, or blog post)	¢Þ.	Φ	0	Ф	B	yır inin		
d. Taken part in political debates or panel discussions	ø	Ð	Ø	⊕	Ð	971457487	 d. Taken part in political debates or panel discussions 	\$	æ	0	θ	Ð	MALININ		
e. Taken part in role-playing, mock trials, or dramas about civics and/or United States government topics	Ø	Ð	Ø	₿	Ð	¥19457483	e. Taken part in role-playing, mock trials, or dramas about civics and/or United States government topics	8	Ð	9	Ð	θ	унглама		

evious item							2018 item							D/A/ R/NC+	Rationale
5. During this school yea civics and/or United S	ar, how often d states governm	o you do each ent? Select o	h of the followi ne answer choi	ng when you ce on each ro	ı study ow.	VIMITINZ	 During this school year you study civics and/o row. 						Avertualer	R	The item stem has been revised
	Never or hardly ever	Once in a while	Sometimes	Often	Always or almost always			Never or hardly ever	Once in a while	Sometimes	Often	Always or almost always			per Translatability
 Study the roles and functions of the three branches of the United States government 	B	Ð	Ø	Φ	Φ	VH457503	 a. Study the rights and responsibilities of United States citizens 	60	Ф	ø	Φ	¢	WIP1szig.		Review to add "activities" afte
Study the rights and responsibilities of United States citizens	Ø	Ð	Ø	Ð	Ð	VH457504	Examine how the United States influences and is	69	Ð	0	9	Φ	WE later.		"the following"
Examine how the United States influences and is influenced by events in other countries	8	œ	Ø	θ	Ð	VHASISIS	influenced by events in other countries c. Compare the roles and responsibilities of								Subitem "a" wa dropped due to
 Compare the roles and responsibilities of local, state, and national governments 	Ø	œ	ø	Ð	Ð	¥19457506	local, state, and national governments in the United States d, Study why it is important to pay	æ	Ð	Ø	¢	¢	41.97 San 11.		overlap with VH457359.
in the United States Study why it is important to pay attention to the	æ	œ.	0	Ð	Ð	¥1945/308	attention to the political process and government c. Study why it is	æ	Φ	ø	æ	Φ	VEP land		Subitem "g" wa dropped based
political process and government Study why it is			1-1-1		1	=	important for individuals to participate in the	as	æ	ø		æ	112219.19		on pilot
important for individuals to participate in the political process and government	æ	Ð	Ø	Ф	Ð	VH457510	political process and government								response data, and given that the wording is
Support an opinion about an issue or problem with reasons and examples	8	œ	Ø	Φ	Ð	¥1945/524	Issue: Organizati	on of Ins	truction	1					more general compared to th
Discuss the political process and government with others	Ø	œ	Ø	Ð	Ð	¥H487525									rest of the subitems in the matrix.
017 Grade 8)															Subitem "h" wa dropped given that talking about the political proces and governmen is already being captured through other items including VH457356 (b-e and VH716857

revious item							2018 item							D/A/ R/NC+	Rationale
17. In your social studies assignments? Select 0	class this year ne answer cho	r, how often de sice on each re	o you get the fo	ollowing		VINSTERI	 In your social studies cl assignments? Select 0 	ass this year, ne answer cho	how often do ice on each re	you get the fol w.	lowing		VILLSTRE	NC	N/A
	Never or hardly ever	Less than half of the lessons	About half of the lessons	More than half of the lessons	All or almost all of the lessons			Never or handly ever	Less than half of the lessons	About half of the lessons	More than half of the lessons	All or almost all of the lessons			
 Assignments that you have to complete together with other students 	æ	۵	φ	θ	Ð	V1467532	 Assignments that you have to complete together with other students 	æ	Φ	Ð	₿	æ	VILLOVER.		
b. Short written responses (for example, a paragraph or less)	00	œ	0	Φ	Ð	V196575437	b. Short written responses (for example, a paragraph or less)	89	Ð	0	Ð	¢	ymerszi		
c. Assignments that use different forms of media (for example, photos, videos, or music)	8	œ	0	θ	Ð	¥19457534	 Assignments that use different forms of media (for example, photos, videos, or music) 	8	θ	6	Ð	æ	утылық		
d. Long written responses (for example, several paragraphs)	ø	œ	9	Ð	Ð	VH457540	d. Long written responses (for example, several paragraphs)	80	Φ	Ð	Φ	æ	VIBICIAN		
e. Responses to questions based on information from several sources (for example, letters, cartoons, or maps)	æ	ø	Ø	Ф	¢	V19457342	e. Responses to questions based on information from several sources (for example, letters, carboons, or maps)	8	Φ	θ	₿	æ	(ambette		

revious item							2018 item							D/A/ R/NC+	Rationale
 When you study social devices to do the follow homework assignment 	wing? For th	is question, inc	lude both sch	oolwork and	tal	VIMETHO	 When you study social s devices to do the follow homework assignment 	ving? For thi	is question, inc	lude both sch	or other digita oolwork and	1	waarsel	NC	N/A
	Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day			Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day			
 Organize information about civics and/or United States government topics by creating tables, charts, or graphs 	0	Ø	ø	Ð	θ	97945754R	 a. Organize information about civics and/or United States government topics by creating tables, charts, or graphs 	æ	Ð	0	θ	Ð	APPORT		
b. Create reports or projects about civics and/or United States government using different forms of media (for example, a slide presentation that combines text and video clips)	68	Ð	Ø	Φ	¢	¥76457549	b. Create reports or projects about civics and/or United States government using different forms of media (for example, a slide presentation that combines text and video clipa)	80	æ	Ð	Ð	¢	411124242		
 Participate in online discussions about civics and/or United States government on a website (for example, in forums or social media) 	60	œ	Q	Ð	Ð	979457550	c. Participate in online discussions about civics and/or United States government on a website (for example, in forums or social media)	æ	Ð	Ð	9	æ	W3457440		
d. Use the Internet to look for evidence or sources (for example, text documents, photographic images, or films)	80	œ	Ø	θ	Ð	¥19457531	d. Use the Internet to look for evidence or sources (for example, text documents, photographic images, or films)	æ	æ	ġ.	ŧ	₿	W8951		

							2018 item							D/A/ R/NC+	Rationale
9. How much does each one answer choice on		ing statements	s describe a pe	erson <mark>l</mark> ike you	? Select	VINCTION	 How much does each or choice on each row. 	f the followi	ng statements	s describe you	? Select one a	answer	An LYNNE,	R	Revisions were made to the
	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me			Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me			item stem per
I believe I can make a difference in my community.	60	æ	Ø	Ð	Ð	¥15457831	 I think I can make a difference in my community. 	æ	Ф	0	Φ	ø	VEPLAND		recommendat n of the
By working with others in the community, I can help make things better.	60	œ	Ø	Ф	Ð	VHASTICIZ	b. I think being actively involved in community issues is my responsibility.	œ	Φ	9	θ	æ	Yumuwa		Questionnaire Standing
Being actively involved in community issues is my responsibility.	60	œ	0	Ð	æ	¥19457833	 c. I think being concerned about state and local issues is an important 	æ	Ð	0	æ	Ð	YUTUMA		Committee fro
Being concerned about state and local issues is an important responsibility for	æ	æ	Ø	Φ	Ð	V194571134	responsibility for everybody. d. 1 have good ideas for								findings for a similarly word
everybody. I have good ideas for programs and projects that would help solve	20	œ	Ø	Φ	æ	¥19457835	programs and projects that would help solve problems in my community.	æ	Ð	9	æ	æ	TETLET		item. Subitem "b" v
problems in my community. Three years from now, I expect to be involved in improving my	00	œ	Ø	Φ	œ	¥19457826	 e. I expect to be involved in improving my community three years from now. 	ap	Φ	Ø	æ	æ	V1171-0000		dropped giver that it loaded
															VH457831 wil
															be used instea of subitem "b" (VH457832) given that it avoids the use the word "things" (for other subjects, NCES commented avoiding the us of the word "things" if possible).

revious item							2018 item							D/A/ R/NC+	Rationale
															across subitem wording within this matrix, subitem c was revised so that the sentence structure did no begin with a clause.
															For subitem "a" the phrase "I believe" was revised to "I think" to avoid appearing as psychological
 Do you think that you choice on each row. 	u would be abl	e to do each o	of the followi	ing? Select one	answer	VIMBIER	 Do you think that you choice on each row. 	would be able	to do each of	the followin	g? Select one a	nswei	VILLITET	NC	profiling. N/A
 Do you think that you choice on each row. 	u would be abl I definitely can't	e to do each o I probably can't	of the followi Maybe	ing? Select one I probably can	answer I definitely can	VIMSTE??	 Do you think that you choice on each row. 	would be able I definitely can't	to do each of I probably Can't	the followin Maybe	g? Select one a I probably can	nswer I definitely can	VILLING?	NC	profiling.
 Do you think that you choice on each row. Explain the roles and functions of the three branches of the United States government 	I definitely	I probably		I probably	I definitely	VIMSTELT	 Do you think that you choice on each row. Explain the roles and functions of the three branches of the United States government 	I definitely can't	I probably	_	I probably	I definitely	VILLEY MAR	NC	profiling.
a. Explain the roles and functions of the three branches of the United States government b. Explain the rights and responsibilities of United States citizens	I definitely can't	I probably can't	Maybe	I probably can	I definitely can		a. Explain the roles and functions of the three branches of the United	I definitely can't	I probably can't	Maybe	I probably can	I definitely can		NC	profiling.
 choice on each row. Explain the roles and functions of the three branches of the United States government Explain the rights and responsibilities of United States citizens Explain how the United States influences and is influenced by events in other countries 	I definitely can't	I probably can't ©	Maybe	I probably can	I definitely can ©	V194578778	a. Explain the roles and functions of the three branches of the United States government b. Explain the rights and responsibilities of	I definitely can't @	I probably can't	Maybe ©	I probably can	I definitely can	V186-7928	NC	profiling.
a. Explain the roles and functions of the three branches of the United States government b. Explain the rights and responsibilities of United States citizens c. Explain how the United States influenced by events in other countries d. Compare the roles and responsibilities of local, state, and national governments in the United States	I definitely can't ©	I probably can't ©	Maybe ©	t probably can ©	I definitely can ©	V19457879 V19457879	chnice on each row. a. Explain the roles and functions of the three branches of the United States government b. Explain the rights and responsibilities of United States citizens c. Explain how the United States citizens influences and is influences	l definitely can't ©	t probably can't Φ	Maybe ©	1 probably can (D) (D) (D) (D) (D) (D) (D) (D)	1 definitely can D	VIRCOM	NC	profiling.
 choice on each row. a. Explain the roles and functions of the three branches of the United States government b. Explain the rights and responsibilities of United States citizens c. Explain how the United States influences and is influenced by events in other countries d. Compare the roles and responsibilities of local, state, and national governments 	I definitely can't co co	I probably can't ©	Maybe © ©	L probably can	D D D	179457878 179457878 179457878	a. Explain the roles and functions of the three branches of the United States government b. Explain the rights and responsibilities of United States citizens c. Explain how the United States influences and is influences and is influences and is influences and responsibilities of local, state, and	I definitely can't & &	I probably can't Ф Ф	Maybe © ©	1 probably can	t definitely can can can can can can can can can can	91267909 91267909 91267990	NC	profiling.

evious item							2018 item							D/A/ R/NC+	Rationale
 How much does each one answer choice on 		ng statements A little bit	s describe a po	rson like you Quite a bit	Select	vitisestri	 How much does each choice on each row. 	of the follow	ring statement	ts describe yo	u? Select one	answer	MITTARK	R	Revisions were made to the item stem per
	like me	like me	like me	like me	me	1.1.1		Nos as all	A little bit	Somewhat	Quite a bit	Exactly like			recommendati
 I want other students to think I am a good civics and/or United States government student. 	æ	Ð	ø	Ф	Ð	V12565719	a. I want other students to think I am a good	Not at all like me	like me	like me	like me	me			n of the Questionnaire
 I want to show others that my civics and/or United States government 	8	Ð	Ø	Ð	Ð	V11565730	civics and/or United States government student. b. I want to show others	ap.	æ.	ø	Φ	æ	VIE' 14496		Standing Committee fro
schoolwork is easy for me. I want to look smart in comparison to the				- 14 			that my civics and/or United States government schoolwork is easy for	æ	Ð	0	Φ	¢	ytar Gara		science cog lat findings for a
other students in my social studies, civics, and/or United States government class.	æ	۲	Ø	Φ	æ	V15565721	me. c. 1 want to look smart in comparison to the other students in my	æ	Ð	0		Ð	VIII 1489		similarly word item. Inclusior
I want to get better civics and/or United States government grades than most other	Ø	Ð	Q	œ	Ð	V11565722	social studies, civics, and/or United States government class. d. I want to get better civics and/or United	-41							of this item is also recommended
students in my class.							States government	dp	Ø	ø	Ð	œ	VIET MARK		for creating
							grades than most other students in my class.	<u>)</u>		1	,				for creating content
							grades than most other	ctors					VIE MERS		content consistency
017 Grade 8) 15. How much does each one answer choice on		ing statement	\$ describe a p	erson like you	13 Select	91556729	grades than most other students in my class.		ving statemen	ts describe ve	u? Select 088	answet	NIDAR	R	content
017 Grade 8) 15. How much does each		ing statement A little bit like me	s describe a p Somewhat like me		1? Select Exactly like me	_	grades than most other students in my class.		ving statemen	ets describe ye	ou? Select One	answer	NITHER	R	content consistency across subjects Revisions were made to the item stem per
017 Grade 8) 15. How much does each one answer choice on a. I want to learn as much as possible about civics and/or	each row.	A little bit	Somewhat	Quite a bit	Exactly like	_	grades than most other students in my class. Issue: Student Fac 11. How much does each choice on each row.		ring statemen A little bit like me	somewhat Bike me	Quite a bit Ilke me			R	content consistency across subjects Revisions were made to the item stem per recommendat n of the
017 Grade 8) 15. How much does each one answer choice on a. I want to learn as much as possible about civics and/or United States government in my class. b. I want to master a lot	cach row. Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me	•	grades than most other students in my class. Issue: Student Fac 11. How much does each choice on each row.	of the follow	A little bit	Somewhat	Quite a bit	Exactly lik		R	content consistency across subject Revisions were made to the item stem per recommendat n of the Questionnaire Standing
017 Grade 8) 15. How much does each one answer choice on a. I want to learn as much as possible about civics and/or United States government in my class.	cach row. Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me	•	a. I want to learn as much as possible about civics and/or United States government in my class. b. I want to master a lot of new civics and/or	of the follow Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly lik me	e 11000	R	content consistency across subjects Revisions were made to the item stem per recommendat n of the Questionnaire Standing Committee fro science cog lab
017 Grade 8) 15. How much does each one answer choice on a. I want to learn as much as possible about civics and/or United States government skills in my class. b. I want to master a lot of new civics and/or United States government skills in my class. c. I want to become a better civics and/or United States government skills in my class. c. I want to become a better civics and/or United States government skills in	cach row. Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me	VIESAGTZE	grades than most other students in my class. Issue: Student Fac 11. How much does each choice on each row. a. I want to learn as much as possible about civics and/or United States government in my class. b. I want to master a lot of new civics and/or United States government akills in my class. c. I want to become a	of the follow Not at all like me	A little bit like me	Somewhat Like me	Quite a bit like me	Exactly lik me	e	R	content consistency across subjects Revisions were made to the item stem per recommendat n of the Questionnaire Standing Committee fro science cog lab findings for a similarly word
 O17 Grade 8) How much does each one answer choice on I want to learn as much as possible about civics and/or United States government in my class. I want to master a lot of new civics and/or United States government skills in my class. I want to become a better civics and/or United States 	each row. Not at all like me	A little bit like me	Somewhat like me ©	Quite a bit like me	© ©	2 V18540738	grades than most other students in my class. Issue: Student Fac 11. How much does each choice on each row. a. I want to learn as much as possible about civics and/or United States government in my class. b. I want to master a lot of new civics and/or United States government skills in my class.	of the follow Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly lik me	e 11000	R	content consistency across subject Revisions were made to the item stem per recommendat n of the Questionnaire Standing Committee fro science cog lat findings for a similarly word item. Inclusior of this item is
 017 Grade 8) 15. How much does each one answer choice on one answer choice on answer choice on the second seco	each row. Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	© ©	2 V1846728 V1846728	grades than most other students in my class. Issue: Student Fac 11. How much does each choice on each row. a. I want to learn as much as possible about civics and/or United States government in my class. b. I want to master a lot of new civics and/or United States government skills in my class. c. I want to become a better civics and/or United States government student this year. d. I want to understand as much as I can about civics and/or United	of the follow Not at all like me	A little bit like me Φ	Somewhat like me	Quite a bit like me m	Exactly lik D D	11271490 11271490	R	content consistency across subjects Revisions were made to the item stem per recommendati n of the Questionnaire Standing Committee fro science cog lab findings for a similarly word item. Inclusion of this item is also recommended
 O17 Grade 8) How much does each one answer choice on a. I want to learn as much as possible about civics and/or United States government in my class. I want to master a lot of new civics and/or United States government skills in my class. I want to become a better civics and/or United States government student this year. I want to get good grades in my civics and/or United States government schoolwork. I want to understand 	each row. Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	© ©	2 V1846728 V1846728	grades than most other students in my class. Issue: Student Fac 11. How much does each choice on each row. a. I want to learn as much as possible about civics and/or United States government in my class. b. I want to master a lot of new civics and/or United States government skills in my class. c. I want to become a better civics and/or United States government skills in my class. c. I want to understand as much as I can about	of the follow Not at all like me op op op	A little bit like me Φ Φ	Somewhat like me	Quite a bit like me o	Exactly lik me © ©	105,1950 115,1950 115,1950	R	content consistency across subjects Revisions were made to the item stem per recommendati n of the Questionnaire Standing Committee fro science cog lab findings for a similarly word item. Inclusion of this item is also

revious item							2018 item							D/A/ R/NC+	Rationale
															Subitem "d" wa dropped in orde to keep 4 items each from the mastery and performance facets of the achievement goals items.
7. How much does each one answer choice on		ing statement	s describe a pe Somewhat	rson like you Quite a bit	Exactly like	¥10457559	 How much does each of choice on each row. 	Not at all	A little bit	Somewhat	Quite a bit	Exactly like	(nmalen	R	Revisions were made to the item stem per
a. Civics and/or United States government are my favorite topics to study.	like me	like me	like me	like me	æ	VH457540	 Civics and/or United States government are my favorite topics to study. 	ilke me	like me	Ф	tike me	æ	VIETLENTE		recommendation n of the Questionnaire
 b. Schoolwork about civics and/or United States government is easy for me. 	60	æ	Ø	ø	æ	VH457561	b. I enjoy doing schoolwork about civics and/or United States government.	æ	Ф	9	ф	æ	VIE/IER-P		Standing Committee from
e. I enjoy doing schoolwork about civics and/or United States government.	æ	æ	0	₿	æ	VH457543	c. I enjoy discussing civics and/or United States government topics with others.	8	Ð	9	8	θ	512° (4877		science cog lab findings for a
d. I enjoy discussing civics and/or United States government topics with others.	60	œ	Ø	9	æ	¥19457570	d. I think that civics and/or United States government achoolwork helps me	8	Ð	.0	8	θ	VIII LANK		similarly worde item.
e. I think that civics and/or United States government schoolwork helps me	68	æ	Θ	Φ	æ	¥19467571	understand what is happening in the world around me. c. I think that learning about civics and/or United States government topics	8	æ	9	æ	æ	V12* (#8%)		Subitem "b" wa dropped to maintain
understand what is happening in the world around me.		· · · · · · · · · ·	1 71	1	1		will be important for my future.		-	1		1211	1		consistency across subjects

							2018 item							D/A/ R/NC+	Rationale
8. During this school yea school? Select one ans			of the follow	ing outside of		VINANTACI	13. During this school year,			of the follow	ing activities (outside	Vitylater	R	Subitems "c" was dropped
	Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day		of school? Select one an	swer choice	About once	About once	About once				given that due 62% of
a. Read about current political events in the	æ	œ	Ø	æ	œ	VHAST782		Never	of twice a year	or twice a month	or twice a week	Every day or almost every day			respondents
media b. Watch movies, videos, and/or TV programs about current political	æ	Ð	0	æ	æ	V194677702	 a. Read about current political events in the media b. Watch movies, videos, 	æ	Ð	9	θ	Ð	Aza, rear		chose "Never" a a response
events c. Communicate with government officials (for example, mayor,	1.		17.1	1	-		and/or TV programs about current political events	æ	æ	Ð		œ	VIT/Lane		option.
council member, or governor) about an issue or problem	80	œ	Ø	Ð	Ð	VHALT772	 Participate in volunteer activities within a community 	æ	Ð	Ð	θ	θ	VII ⁺ (MME		Subitem "e" wa dropped due to
d. Participate in volunteer activities in your community	ø	œ	9	8	θ	VH457773	d. Discuss current political events or issues with others (for	80	æ	Ð	Ð	æ	VILIT LAMES		overlap with a similar item in
 Talk about the political process and government with others 	60	æ	ø	₽	Ð	¥19457775-	example, people in my home or friends)						_		the self-efficac set (VH457897
f. Discuss current political events or issues with others (for example, people in my home or friends)	æ	æ	9	Ð	Ð	WH457776-	Issue: Student Fac	tors							Set (V11437837
2017 Grade 8)															
 How often do you recei studies outside of school Never 	ol or after sch	a tutor, family 100l?	y member, or f	riend with so	zial	V16457761	14. How often do you recei studies outside of scho			y member, or	friend with so	ial	villativi:	NC	N/A
 About once or twic About once or twic 							Ø Never								
 About once of twice About once of twice 							D About once or twice	e a year							
D Every day or almost							About once or twice About once or twice								
							About once of twice About once of twice								
D Every day of annos							Every day or almos	t every day							
C Every day of almos															
							Issue: Resources f					_			
2017 Grade 8) 18. Approximately how ma	ny hours a da	ay do you spen	d on your soc	ial studies		VILLENATI	15. Approximately how r homework?	nany hour				lies		NC	N/A
2017 Grade 8) 18. Approximately how ma homework?		ay do you spen	d on your soc	ial studies		VILLENGT	15. Approximately how r homework?	nany hour utes a day	s a day do you			lies		NC	N/A
2017 Grade 8) 18. Approximately how ma homework? © Less than 30 minute	es a day	ay do you spen	d on your soc	ial studies		ารมองสาร	 15. Approximately how r homework? D Less than 30 mini D 30 minutes up to 	nany hour utes a day 1 hour a d	s a day do you			lies		NC	N/A
2017 Grade 8) 18. Approximately how ma homework? © Less than 30 minute © 30 minutes up to 11	es a day hour a day	ay do you spen	d on your soc	ial studies		Alfragelia	 15. Approximately how r homework? D Less than 30 min D 30 minutes up to I up to 2 hours a 	nany hour utes a day 1 hour a d day	s a day do you			lies		NC	N/A
2017 Grade 8) 18. Approximately how ma homework? © Less than 30 minute	es a day hour a day y	ay do you spen	d on your s oc	ial studies		(TEORED)	 15. Approximately how r homework? D Less than 30 min D 30 minutes up to I up to 2 hours a 2 up to 3 hours a 	nany hour utes a day 1 hour a d day day	s a day do you			lies		NC	N/A
2017 Grade 8) 18. Approximately how ma homework? © Less than 30 minute © 30 minutes up to 1 H © 1 up to 2 hours a day	es a day hour a day y	ay do you spen	d on your SOC	ial studies		Altraoth	 15. Approximately how r homework? D Less than 30 min D 30 minutes up to I up to 2 hours a 2 up to 3 hours a 3 up to 4 hours a 	nany hour utes a day 1 hour a d day day day	s a day do you			lies		NC	N/A
2017 Grade 8) 18. Approximately how ma homework? © Less than 30 minute © 30 minutes up to 1 H © 1 up to 2 hours a day © 2 up to 3 hours a day	es a day hour a day y y	ay do you spen	d on your soc	ial studies		VILISOUT	 15. Approximately how r homework? D Less than 30 min D 30 minutes up to I up to 2 hours a 2 up to 3 hours a 	nany hour utes a day 1 hour a d day day day	s a day do you			lies		NC	N/A

revious item							2018 item	D/A/ Rationale R/NC+
 Do you think that you choice on each row. 	u would be ab	le to do each o	of the followin	ng? Select one	answer	VIMITERS	N/A	D This item was dropped in ord
12 22 2	I definitely can't	I probably can't	Maybe	I probably can	I definitely can			to reduce
 Support an opinion about an issue or problem with reasons and examples 	80	œ	9	Φ	Φ	VH457096		burden. Similar items for self- efficacy from
b. Discuss the political process and government with others	Ø	œ	Ø	₿	Ð	VH457897		VH457877 wer kept in its place
Understand other people's perspectives on social issues (for example, neighborhood safety, Internet privacy, or environmental conservation)	Ø	æ	Ø	Ð	Ð	¥19457909		given that the wording for thi item is general and does not
d. Form an effective plan				1				
for addressing social issues	Ø	٩	Ø	Ð	¢	¥1966,7905		specify social studies specific content.
for addressing social issues	s and/or Unite nts describe a	ed States gover petson like you	rnment, how r a? Select one a	nuch does ea inswer choice	ch of on each	vi(26807	N/A	D This item was dropped and the version which
for addressing social issues 017 Grade 8) 12. When you study civic the following stateme row.	s and/or Units	ed States gover	rament, how r	nuch does eau	ch of	vi(26807	N/A	D This item was dropped and the version which includes specific
for addressing social issues 017 Grade 8) 12. When you study civic the following stateme	s and/or Unite nts describe a	ed States gover person like you A little bit	rnment, how r u? Select one a Somewhat	nuch does eas inswer choice Quite a bit	ch of on each Exactly like	vi(26807	N/A	D This item was dropped and the version which
for addressing social issues 017 Grade 8) 12. When you study civic the following stateme row. a. I want other students to think I am a good	s and/or Units nts describe a Not at all like me	ed States gover person like you like me	roment, how r u? Select one a Somewhat like me	nuch does ea nswer choice Quite a bit like me	ch of on each Exactly like me	vi(26807	N/A	D This item was dropped and th version which includes specifi subject reference in th subitems was
for addressing social issues 2017 Grade 8) 12. When you study civic the following stateme row. a. 1 want other students to think I am a good student. b. I want to show others that my schoolwork is	s and/or Unite nts describe a Not at all like me Ø	ed States gover person like you like me Ø	rnment, how r a? Select one a Somewhat like me ©	much does ea inswer choice Quite a bit like me @	ch of on each Exactly like me ©	191956007	N/A	D This item was dropped and th version which includes specifies subject reference in th

revious item							2018 item	D/A/ R/NC+	Rationale
 When you study geogr describe a person like 	aphy, how mu you? Select 01	ich does each 1e answer cho	of the followi	ng statements ow.	5	91583907	N/A	D	This item was dropped and th
	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me	e			version which includes specifi
I want to learn as much as possible in my class.	99	œ	ø	θ	æ	V15562300			subject
I want to master a lot of new skills in my class.	æ	æ	ø	Ð	æ	W155638087			reference in th subitems was
I want to become a better student this year.	00	æ	ø	Ð	Ð	VESKOVI			retained. This will also create
I want to get good grades in my	æ	Ð	0	θ	Ð	VHS60912			content
SCHOOLWOLK.				1					consistency
schoolwork. I want to understand as much as I can in my class. 017 Grade 8) 19. In your social studies following? Select one	Ø class this scho answer choice	Dol year, how of on each row.	© often have you	a done each of	æ	WHESCOPID WHESCOPID	N/A	D	This item has
I want to understand as much as I can in my class. 017 Grade 8) 9. In your social studies	class this scho	ool year, how o				NEEDNY	N/A	D	This item has been dropped
I want to understand as much as I can in my class. 017 Grade 8) 9. In your social studies	class this scho answer choice Never or	ool year, how o on each row. Less than half of the	often have you	done each of More than half of the	the All or almost all of	NEEDNY	N/A	D	been dropped given that Self- Control items are already
I want to understand as much as I can in my class. 017 Grade 8) 9. In your social studies following? Select one studies class prepared. I remembered and followed directions from my social studies	class this scho answer choice Never or hardly ever	ool year, how o on each row. Less than half of the time	often have you About half of the time	a done each of More than half of the time	the All or almost all of the time	NEEDNY	N/A	D	This item has been dropped given that Self- Control items are already
I want to understand as much as I can in my class. 017 Grade 8) 9. In your social studies following? Select one studies class prepared. I remembered and followed directions from my social studies teacher. I started working on social studies assignments right away rather than waiting until the last	class this scho answer choice Never or hardly ever @	ool year, how on each row. Less than half of the dme	About hali of the time ©	a done each of More than half of the time \$\product{T}\$	the All or almost all of the time Φ	NEEDNY	N/A	D	This item has been dropped given that Self- Control items
I want to understand as much as I can in my class. 017 Grade 8) 9. In your social studies following? Select one studies class prepared. I remembered and followed directions from my social studies teacher. I started working on social studies assignments right away rather than	class this sch answer choice Never or hardly ever @ @	ool year, how o on each row. Less than half of the time ©	About half of the time ©	n done each of More than half of the time	All or almost all of the time	91447994 97945.7928 97946.7928	N/A	D	This item has been dropped given that Self- Control items are already

Appendix I-1m: 2018 Operational Grade 8 Civics

1. In which of the following grades have you learned about civics and/or United States government? Select **one** answer choice on each row.

	Yes, I took a class or course mainly focused on civics and/or United States government.	Yes, I took a class or course that included some civics and/or United States government topics.	No, I did not take a class or course that taught civics and/or United States government topics.	I don't remember.	
a. 6th grade	Ø	®	Ö	Ø	VH457394
b. 7th grade	A	®	Ö	Ø	VH457396
c. 8th grade	A	®	Ö	0	VH457397

2. In your social studies class this year, how much have you studied the following topics? Select **one** answer choice on each row.

		Not at all	Very little	Some	Quite a bit	A lot	
a.	The United States Constitution	Ø	®	O	Ø	Ē	VH457358
b.	The three branches of the United States government (executive, judicial, and legislative branches)	۵	®	O	Ø	Ē	VH457359
c.	How laws are made	A	®	Ô	O	Ē	VH457363
d.	Political parties, elections, and voting	A	®	O	Ø	Ē	VH457366
e.	Other countries' governments (for example, their structure, how they are run, or interactions with the United States)	Ø	®	Ø	Ø	Ē	VH457368
f.	International organizations (for example, the United Nations, World Bank, or World Health Organization)	۵	®	O	Ø	¢	VH457369
g.	Current political and social issues	Ø	®	O	Ø	Ē	VH457372

201

VH456753

VH457356

1

3. During this school year, how often do you do each of the following activities? Select **one** answer choice on each row.

		Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	
a.	Read material from a civics and/or United States government textbook (print or digital)	0	℗	Ø	Ø	¢	VH716852
b.	Read extra material about civics and/or United States government not in the regular textbook (for example, newspapers, magazines, or online sources)	0	Θ	0	Ø	¢	VH716853
C.	Conduct research about civics and/or United States government topics (for example, online, in a library, or through interviews)	0	ഀ	0	Ø	¢	VH716855
d.	Listen to or watch movies, videos, or online content about civics and/or United States government topics	0	℗	Ø	۵	¢	VH716854

		Never	Once	Two or three times	Four or five times	More than five times	
a.	Gone on class field trips to learn about civics and/or United States government topics	0	®	O	Ø	¢	VH716858
b.	Given class presentations on civics and/or United States government topics	(9	6	O	Θ	Ē	VH716859
C.	Written about your opinion on a community problem or social issue (for example, in a letter, e-mail, or blog post)	0	®	O	Ø	¢	VH716862
d.	Taken part in political debates or panel discussions	0	6	O	Ø	Ē	VH716861
e.	Taken part in role-playing, mock trials, or dramas about civics and/or United States government topics	0	®	Ø	Ø	Ē	VH716860

4. During this school year so far, how often have you done each of the following activities? Select **one** answer choice on each row.

VH716863

5. During this school year, how often do you do each of the following activities when you study civics and/or United States government? Select **one** answer choice on each row.

		Never or hardly ever	Once in a while	Sometimes	Often	Always or almost always	
a.	Study the rights and responsibilities of United States citizens	Ø	ß	O	0	Ē	VH716865
b.	Examine how the United States influences and is influenced by events in other countries	Ø	℗	O	Ø	¢	VH716866
c.	Compare the roles and responsibilities of local, state, and national governments in the United States	Ø	₿	Ø	Ø	¢	VH716871
d.	Study why it is important to pay attention to the political process and government	Ø	℗	Ø	Φ	¢	VH716868
e.	Study why it is important for individuals to participate in the political process and government	Ø	℗	O	Ø	¢	VH727879

		Never or hardly ever	Less than half of the lessons	About half of the lessons	More than half of the lessons	All or almost all of the lessons	
a.	Assignments that you have to complete together with other students	Ø	®	Q	Ø	¢	VH457532
b.	Short written responses (for example, a paragraph or less)	Ø	ഀ	Ø	Ø	¢	VH457533
c.	Assignments that use different forms of media (for example, photos, videos, or music)	Ø	®	Ø	Ø	¢	VH457534
d.	Long written responses (for example, several paragraphs)	Ø	ഀ	Ø	Ø	¢	VH457540
e.	Responses to questions based on information from several sources (for example, letters, cartoons, or maps)	(9)	℗	0	Ø	¢	VH457542

6. In your social studies class this year, how often do you get the following assignments? Select **one** answer choice on each row.

VH457547

7. When you study social studies, how often do you use computers or other digital devices to do the following? For this question, include both schoolwork and homework assignments. Select **one** answer choice on each row.

		Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	
a.	Organize information about civics and/or United States government topics by creating tables, charts, or graphs	0	6	0	Ø	ß	VH457548
b.	Create reports or projects about civics and/or United States government using different forms of media (for example, a slide presentation that combines text and video clips)	0	®	0	Ø	Θ	VH457549
C.	Participate in online discussions about civics and/or United States government on a website (for example, in forums or social media)	0	®	Q	Ø	©	VH457550
d.	Use the Internet to look for evidence or sources (for example, text documents, photographic images, or films)	0	®	Q	Ø	Θ	VH457551

Not at all A little bit Somewhat Quite a bit Exactly like like me like me like me like me me a. I think I can make a difference in my VH716888 Ø B © \bigcirc Ð community. b. I think being actively involved in VH716893 A B O \odot Ð community issues is my responsibility. c. I think being concerned about state and local issues is an VH716891 A B O \bigcirc Ð important responsibility for everybody. d. I have good ideas for programs and projects that would help solve VH716892 Ø B © \odot Ð problems in my community. e. I expect to be involved in improving my VH716890 A O \odot Ð B community three years from now.

8. How much does each of the following statements describe you? Select **one** answer choice on each row.

I definitely I definitely I probably I probably Maybe can't can't can can a. Explain the roles and functions of the three VH457878 A B O D Ð branches of the United States government b. Explain the rights and responsibilities of A B O \bigcirc Ð VH457879 United States citizens c. Explain how the United States influences and is VH457880 A B \odot \odot Ð influenced by events in other countries d. Compare the roles and responsibilities of local, state, and VH457882 A © Ð B \bigcirc national governments in the United States e. Explain why it is important to pay attention to the VH457884 A B \odot \bigcirc Ð political process and government f. Explain why it is important for individuals to VH457885 A B O \odot Ð participate in the political process and government

9. Do you think that you would be able to do each of the following? Select **one** answer choice on each row.

Not at all A little bit Somewhat Quite a bit Exactly like like me like me like me like me me a. I want other students to think I am a good civics and/or United VH716895 A B O Đ \odot States government student. b. I want to show others that my civics and/or United States VH716898 A B O \odot Đ government schoolwork is easy for me. c. I want to look smart in comparison to the other students in my A B O D Đ VH716897 social studies, civics, and/or United States government class. d. I want to get better civics and/or United States government VH716896 A B O \odot Ð grades than most other students in my class.

10. How much does each of the following statements describe you? Select **one** answer choice on each row.

		Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me	
a.	I want to learn as much as possible about civics and/or United States government in my class.	0	®	0	Φ	¢	VH716900
b.	I want to master a lot of new civics and/or United States government skills in my class.	0	ഀ	Ø	Ø	©	VH716901
c.	I want to become a better civics and/or United States government student this year.	0	(6)	Ø	Ø	©	VH716904
d.	I want to understand as much as I can about civics and/or United States government in my class.	0	®	Q	Ø	¢	VH716902

11. How much does each of the following statements describe you? Select **one** answer choice on each row.

Not at all A little bit Somewhat Quite a bit Exactly like like me like me like me like me me a. Civics and/or United States government are VH716874 A B O D Ð my favorite topics to study. b. I enjoy doing schoolwork about Ø O Ð VH716879 B \bigcirc civics and/or United States government. c. I enjoy discussing civics and/or United VH716877 A B O \bigcirc Ð States government topics with others. d. I think that civics and/or United States government schoolwork helps me VH716878 A B © \odot Ð understand what is happening in the world around me. e. I think that learning about civics and/or United States VH716876 A B © \odot Ð government topics will be important for my future.

12. How much does each of the following statements describe you? Select **one** answer choice on each row.

About once About once About once Every day or Never or twice a or twice a or twice a almost month week every day year a. Read about current political events in the VH716881 A B D Đ O media b. Watch movies, videos, and/or TV programs A VH716882 B O D Ð about current political events c. Participate in volunteer activities VH716884 A B O \odot Ð within a community d. Discuss current political events or issues with others (for VH716883 A Ð B \odot \odot example, people in my home or friends)

13. During this school year, how often do you do each of the following activities **outside of school**? Select **one** answer choice on each row.

14. How often do you receive help from a tutor, family member, or friend with social studies **outside of school or after school**?

- Never
- About once or twice a year
- © About once or twice a month
- About once or twice a week
- © Every day or almost every day

VH716880

15. Approximately how many hours a day do you spend on your **social studies** homework?

- (Less than 30 minutes a day
- [®] 30 minutes up to 1 hour a day
- © 1 up to 2 hours a day
- ① 2 up to 3 hours a day
- © 3 up to 4 hours a day
- (D) More than 4 hours a day

Appendix I-1n: Summary of Revisions Grade 8 Geography

revious item						2018 item 25. In which of the following grades have you learned about geography? Select one answer choice on each row.								Rationale Subitem "a" was dropped given
1. In which of the followin choice on each row.	ng grades have you	learned about geo	graphy? Select or	e answer	VH459042									
	Yes, I took a class or cour mainly focused on geography.		No, I did not take a class or course that taught geography topics.	I don't remember.			Yes, I took class or cou mainly focused o geography	a class of that in so geogr	or course t	No, I did not take a class or course that taught geography topics.	I don't remember.			the high frequency percentage for
a. 5th grade	٩	Ð	Q	0	VE1459043	a. 6th grade		-			-	VH459044		the response "
b. 6th grade	0	٩	O	٢	V31459044	 b. 7th grade 	0		0	0 0	0	VH459044 VH459045		don't know".
c. 7th grade	Ø	Ð	Ø	٢	VH459045	0			0	0	0	VH459046		
					V91459046 VH459048	c. sth grade Issue: Organizatio 26. In your social studies of topics? Select one answ	class this year, he wer choice on eac	w much ha		udied the follow	ing	VE49048	NC	N/A
topics? Select one ansv a. Using physical or	lass this year, ho ver choice on eacl	/ much have you	studied the follow	ring		26. In your social studies of topics? Select one answ	n of Instru class this year, ho wer choice on ear	uction			ing		NC	N/A
 In your social studies c topics? Select one answ Using physical or digital maps (for example, a road map, MapQuest, or Google 	lass this year, ho ver choice on eacl	/ much have you row.	studied the follow	ring		Issue: Organizatio 26. In your social studies of topics? Select one answ a. Use of physical or digital maps (for example, a road map, MapQuest, or Google	n of Instru class this year, ho wer choice on ear	w much ha	ave you stu	udied the follow	ing		NC	N/A
2. In your social studies of topics? Select one answ a. Using physical or digital maps (for example, a road map,	elass this year, how ver choice on each Not at all Ve	/ much have you row. ry little Son	studied the follov e Quite a bi	ring : A lot	VH459648	Issue: Organizatio 26. In your social studies of topics? Select one ansy a. Use of physical or digital maps (for example, a road map,	n of Instru class this year, he wer choice on eac Not at all	w much ha h row.	ave you stu Some	udied the follow Quite a bit	ing A lot	V849048	NC	N/A
2. In your social studies of topics? Select one ansy a. Using physical or digital maps (for example, a road map, MapQuest, or Google Maps) and globes b. Natural resources (for example, oil, forests,	lass this year, ho ver choice on eacl Not at all Ve	y much have you row. ry little Son	e Quite a bi	ring t A lot D	VH459948 VH459949	26. In your social studies or topics? Select one answ a. Use of physical or digital maps (for example, a road map, MapQuest, or Google Maps) and globes b. Natural resources (for example, oil, forests,	n of Instru class this year, hi wer choice on ear Not at all	w much ha h row.	ave you stu Some	udied the follow Quite a bit ©	ng A lot D	V1849846	NC	N/A

Previous item					2018 item							D/A/ R/NC+	Rationale		
 During this school year, how often do you do each of the following? Select one answer choice on each row. 							27. During this school year, how often do you do each of the following activities? Select one answer choice on each row.							R	The item stem has been revised
	Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day			Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day			per Translatability
a. Read material from a geography textbook	0	Ð	©	٢	Ð	VH459128	a. Read material from a geography textbook	0	Ð	Q	Ø	Ð	VH717181		Review to add
b. Read extra material about geography not in the regular textbook (for example, newspapers, magazines, or online sources)	۵	Ð	Ø	٢	Ð	VH459129	(print or digital) b. Read extra material about geography not in the regular textbook (for example, newspapers,	0	Ð	Q	Ø	Ð	VH717182		"activities" after "the following" Revisions were
c. Discuss material about geography with peers or teachers	Ø	Ð	Ø	Ø	Θ	VH459130	magazines, or online sources) c. Conduct research						_		made to subite
 d. Conduct research about geography topics (for example, in a library or through 	Ø	Ð	ø	Ø	Ð	V11459134	about geography topics (for example, online, in a library, or through interviews)	0	Ð	Q	Ð	Φ	VH717184		"a" to include print or digital
interviews or observations)		· · · · · · · · · · · · · · · · · · ·					 Listen to or watch movies, videos, or online content about 	0	Ð	0	Ø	Ð	V31717183		books, and to maintain
e. Listen to or watch movies, videos, or online content about geography topics	0	Ð	O	Ð	θ	V21459135	geography topics								consistency wi changes made
2017 Grade 8)							Issue: Organizatio	n of Ins	truction						other survey questionnaires
															Subitem "c" wa dropped to reduce burden
															Revisions were
															made to subitem "d" to
															clarify the
															examples give

revious item							2018 item							D/A/ R/NC+	Rationale
 During this school year one answer choice on e 		ften have you	1 done each of	the following	? Select	VH459147	 During this school yea activities? Select one a 			u done each of	the following		VH717245	R	The item stem has been revised
	Never	Once	Two or three times	Four or five times	More than five times		1	Never	Once	Two or three times	Four or five times	More than five times			per
 Gone on class field trips to learn about geography topics 	@	Φ	Ø	۵	Ð	VH459148	 Gone on class field trips to learn about geography topics 	Ø	Ð	Q	θ	Ð	VH717246		Translatability Review to add
 Given class presentations on geography topics 	۲	Ð	Ø	۵	θ	VH459149	b. Given class presentations on geography topics	Ø	θ	0	θ	Θ	VH717249		"activities" afte "the following"
c. Written about your opinion on geographic problems or issues (for example, in a letter, e-mail, or blog post)	0	θ	0	θ	θ	VH459156	c. Written about your opinion on geographic problems or issues (for example, in a letter, e-mail, or blog post)	Ø	Φ	Ø	θ	Ð	VH717248		
 Taken part in environmental debates or panel discussions 	0	Ð	Ø	θ	θ	VH459157	d. Taken part in environmental debates or panel discussions	Ø	θ	0	θ	Ð	VH717247		
2017 Grade 8)	r how also a	la unu da saal	h of the fellow	ina mban nan		VH459162	Issue: Organizatio	- C 2 1 1			ine additition	when	94717200	P	The item stem
 During this school yea geography? Select one 				ing when you		-	29. During this school ye you study geography?				ing activities			R	has been revise
	Never or hardly ever	Once in a while	Sometimes	Often	Always or almost always			Never or hardly ever	Once in a while	Sometimes	Often	Always or almost always			
a. Use a map (for							a. Use a map (for								
example, a road map, MapQuest, or Google Maps), atlas, or globe to locate different cities, countries, and continents	۵	Ð	ø	Ø	Ð	VH459163	example, a road map, MapQuest, or Google Maps), atlas, or globe to locate different cities, countries, and	Ø	Φ	Ø	Ø	Φ	VH71720)		
example, a road map, MapQuest, or Google Maps), atlas, or globe to locate different cities, countries, and	0	Ð	0	Ð	Ð	VI1459163 VI1459165	MapQuest, or Google Maps), atlas, or globe to locate different cities, countries, and continents b. Examine how natural features of Earth (for example, rivers or	Ø	@ @	Q	Ð	Ð	VH717203 VH717202		"the following" Subitem "c" wa
example, a road map, MapQuest, or Google Maps), atlas, or globe to locate different cities, countries, and continents b. Examine how natural features of the Earth (for example, rivers or							MapQuest, or Google Maps), atlas, or globe to locate different cities, countries, and continents b. Examine how natural features of Earth (for example, rivers or mountains) are formed c. Examine why groups								"the following" Subitem "c" wa dropped based
example, a road map, MapQuest, or Google Maps), atlas, or globe to locate different cities, countries, and continents b. Examine how natural features of the Earth (for example, rivers or mountains) are formed c. Measure distances and	۵	Φ	Q	Ð	Ð	VH459165	MapQuest, or Google Maps), atlas, or globe to locate different cities, countries, and continents b. Examine how natural features of Earth (for example, rivers or mountains) are formed c. Examine why groups of people migrate to different parts of the world								"activities" after "the following" Subitem "c" was dropped based on a low response rate i
example, a road map, MapQuest, or Google Maps), atlas, or globe to locate different cities, countries, and continents b. Examine how natural features of the Earth (for example, rivers or mountains) are formed c. Measure distances and sizes of areas on maps d. Examine what makes different regions in the United States unique e. Examine why groups of people migrate to different parts of the	0	θ	0	0	Ð	VI4459165 VH459168	MapQuest, or Google Maps), atlas, or globe to locate different cities, countries, and continents b. Examine how natural features of Earth (for example, rivers or mountains) are formed c. Examine why groups of people migrate to different parts of the world d. Examine how humans affect the natural environment	Ø	Đ	Q	Ð	Ð	VH717202		"the following" Subitem "c" wa dropped based on a low response rate i the pilot data (i.e., less than
example, a road map, MapQuest, or Google Maps), aclas, or globe to locate different cities, countries, and continents b. Examine how natural features of the Earth (for example, rivers or mountains) are formed c. Measure distances and sizes of areas on maps d. Examine what makes different regions in the United States unique e. Examine why groups of people migrate to different parts of the world f. Examine how humans affect the natural	© ©	© ©	0	© ©	D D D	V14459165 V14459168 V14459169	MapQuest, or Google Maps), atlas, or globe to locate different cities, countries, and continents b. Examine how natural features of Earth (for example, rivers or mountains) are formed c. Examine why groups of people migrate to different parts of the world d. Examine how humans affect the natural environment e. Examine how humans adjust to the natural environment	0	© ©	Q	0	Ð	VH717202 VH7717202		"the following" Subitem "c" wa dropped based on a low response rate i the pilot data
example, a road map, MapQuest, or Google Maps), atlas, or globe to locate different cities, countries, and continents b. Examine how natural features of the Earth (for example, rivers or mountains) are formed c. Measure distances and sizes of areas on maps d. Examine what makes different regions in the United States unique e. Examine why groups of people migrate to different parts of the world f. Examine how humans affect the natural environment g. Examine how humans adjust to the natural	@ @ @	© © ©	0 0 0	0	Ð Ð Ð	V14459166 V14459166 V14459168 V14459169	MapQuest, or Google Maps), atlas, or globe to locate different cities, countries, and continents b. Examine how natural features of Earth (for example, rivers or mountains) are formed c. Examine why groups of people migrate to different parts of the world d. Examine how humans affect the natural environment e. Examine how humans adjust to the natural	© ©	© ©	0 0	0	0	VH717202 VH7717202		"the following" Subitem "c" wa dropped based on a low response rate i the pilot data (i.e., less than 10%) to the response optio "Often" and
example, a road map, MapQuest, or Google Maps), atlas, or globe to locate different cities, countries, and continents b. Examine how natural features of the Earth (for example, rivers or mountains) are formed c. Measure distances and sizes of areas on maps d. Examine what makes different regions in the United States unique e. Examine why groups of people migrate to different parts of the world f. Examine how humans affect the natural environment g. Examine how humans	@ @ @	© © ©	0 0 0	© © ©	0	V1449165 V1449169 V1449169 V1449169	MapQuest, or Google Maps), atlas, or globe to locate different cities, countries, and continents b. Examine how natural features of Earth (for example, rivers or mountains) are formed c. Examine why groups of people migrate to different parts of the world d. Examine how humans affect the natural environment e. Examine how humans adjust to the natural environment f. Examine why different food and energy resources are traded	@ @ @	© © ©	0 0 0	@ @ @	0 0 0	V91717203 V91717203 V917(7209 V917(7206		"the following" Subitem "c" wa dropped based on a low response rate i the pilot data (i.e., less than 10%) to the response optio

Previous item							2018 item							D/A/ R/NC+	Rationale
2017 Grade 8)															(i.e., less than 10%) to the response optior "Always or almost always".
 In your social studies assignments? Select or 	class this year ne answer cho	oice on each ro	w.		[VH457531	 In your social studies assignments? Select σ 	class this year ne answer cho	oice on each ro	iw.		18	VIMSTERI	NC	N/A
	Never or hardly ever	Less than half of the lessons	About half of the lessons	More than half of the lessons	All or almost all of the lessons		1	Never or hardly ever	Less than half of the lessons	About half of the lessons	More than half of the lessons	All or almost all of the lessons			
 Assignments that you have to complete together with other students 	Ø	Ð	Ø	Ð	θ	VH457532	 Assignments that you have to complete together with other students 	æ	œ	Q	Ð	Φ	¥H417572		
 Short written responses (for example, a paragraph or less) 	0	Ð	0	θ	Φ	VH457533	b. Short written responses (for example, a paragraph or less)	æ	œ	ø	Φ	Φ	VH457523		
c. Assignments that use different forms of media (for example, photos, videos, or music)	۵	Ð	Ø	θ	Φ	VH457534	c. Assignments that use different forms of media (for example, photos, videos, or music)	60	œ	ø	θ	Φ	¥11457334		
d. Long written responses (for example, several paragraphs)	Ø	Ð	Ø	Θ	Ð	V21457540	 d. Long written responses (for example, several paragraphs) 	Ø	۵	0	Ð	Φ	911457240		
Responses to questions based on information from several sources (for example, letters,	۵	Ð	0	Ø	Ð.	VH457542	e. Responses to guestions based on information from several sources (for example, letters,	æ	œ	Ø	Φ	æ	¥39457242		

Previous item							2018 item							D/A/ R/NC+	Rationale
 When you study social devices to do the follow homework assignment 	wing? For thi	s question, inc	lude both sch	s or other digi oolwork and	tal	VH499263	 When you study social devices to do the follow homework assignments 	ing? For thi	s question, inc	lude both scho	s or other digit oolwork and	al	VI9499263	R	Subitem "a" wa revised for
	Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day			Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day			clarity as per Fresh Eyes
 Use games or apps in which you play a role (for example, an explorer, geographer, or historian) 	۵	Φ	9	θ	Φ	VI1459265	 Play games or use apps in which you play a role (for example, an explorer, geographer, or historian) 	٩	Ð	Ø	θ	Φ	¥H737929		review, from "Use games or apps" to "Play
b. Organize information about geography topics by creating tables, charts, or graphs	۵	Ð	0	0	Ð	VH459268	b. Organize information about geography topics by creating tables, charts, or graphs	θ	Ð	0	θ	Θ	VH459268		games or use apps".
Create reports or projects about geography using different forms of media (for example, a slide presentation that combines text and video clips)	۵	Ð	0	θ	θ	VH459269	c. Create reports or projects about geography using different forms of media (for example, a slide presentation that combines text and video clips)	٩	Đ	0	θ	Φ	V31459269		
 d. Participate in online discussions about geography on a website (for example, in forums or social media) 	۵	Ð	Ø	Φ	Ð	VH459270	 d. Participate in online discussions about geography on a website (for example, in forums or social media) 	۹	Ð	9	θ	Φ	V21459270		
Use the Internet to look for evidence or sources (for example, text documents, photographic images, or films)	۵	Ð	Ø	Φ	Φ	VI(45927)	e. Use the Internet to look for evidence or sources (for example, text documents, photographic images, or films)	9	Ð	0	θ	θ	VH459271		
2017 Grade 8)							Issue: Organizatio	n of Ins	truction						

Previous item							2018 item							D/A/ R/NC+	Rationale
 Do you think that you choice on each row. 	1 would be ab	le to do each o	f the followin	ng? Select one	answer	VH459340	 Do you think that you choice on each row. 	u would be ab	le to do each o	of the followi	ing? Select one	answer	V16459340	R	Subitems "c" and "d" were
	I definitely can't	I probably can't	Maybe	1 probably can	I definitely can			I definitely can't	I probably can't	Maybe	I probably can	I definitely can			dropped to reduce burden.
 Use a map (for example, a road map, MapQuest, or Google Maps), atlas, or globe to locate different cities, countries, and continents 	Ø	Φ	Ø	Ø	Ð	VI(459342	a. Use a map (for example, a road map, MapQuest, or Google Maps), atlas, or globe to locate different cities, countries, and continents	Ø	Ð	9	Ð	Θ	VH459342		reduce burden.
b. Describe how natural features of the Earth (for example, rivers or mountains) are formed	8	Ð	Q	Ø	Ð	VI{459344	b. Describe how natural features of Earth (for example, rivers or mountains) are formed	Ø	Ð	0	Ø	Ð	VH728006		
c. Measure distances and sizes of areas on maps	0	Ð	0	0	Θ	VH459345	c. Explain why groups of people migrate to	1.5	1.000		1.23				
d. Describe what makes different regions in the	9	Ð	Ø	Ð	Φ	VH459346	different parts of the world	0	Ð	e	0	Ð	VH459357		
United States unique e. Explain why groups of people migrate to different parts of the	Ø	Ð	©	Φ	Ð	VH459357	d. Explain how humans affect the natural environment	Ø	Ð	Ø	٩	Ð	VH459358		
world f. Explain how humans	12						 Explain how humans adjust to the natural environment 	Ø	Ð	Ø	Ð	Φ	VH602980		
affect the natural environment	Ø	Ð	©	۵	Φ	VH459358	f. Explain why different food and energy	1.		1.7.5	1000				
 Explain how humans adjust to the natural environment 	0	Ð	ø	0	Ø	VH602980	resources are traded globally	Ø	Ð	Q	0	Φ	VH459359		
h. Explain why different food and energy resources are traded globally	۵	Ð	0	Φ	Ø	V11459359	g. Use geographic information (for example, maps, satellite images, or population data) to	Ø	Ð	0	Θ	Ð	VH459361		
 Use geographic information (for example, maps, satellite images, or population data) to answer a question or 	8	æ	0	θ	Φ	VI(459361	answer a question or solve a problem								
solve a problem 2017 Grade 8)						VHS65916	Issue: Student Fac	and the state		dooribo	a) Colore and		VII717290	R	Revisions were
 How much does each one answer choice on 		ing statements	describe a po	erson like you	? Select	TILAUNA	choice on each row.	or the following	ng statements	describe yo	us select one	answei		IX .	made to the
	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like		[Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me			item stem per
 I want other students to think I am a good geography student. 	Ø	Ð	Q	Ð	Ð	VH566917	 a. I want other students to think I am a good geography student. 	Ø	Ð	Ø	Θ	Ð	VH717291		recommendatio n of the
b. I want to show others that my geography schoolwork is easy for me.	8	θ	Q	Ð	Φ	VH566918	b. I want to show others that my geography schoolwork is easy for me.	Ø	Ð	©	ø	θ	VH717294		Questionnaire Standing
c. I want to look smart in comparison to the other students in my social studies or geography class.	۵	Ð	Ø	Ø	Ð	¥H566922	c. I want to look smart in comparison to the other students in my social studies or geography class.	Ø	Ð	©	Ø	Φ	VH717292		Committee from science cog lab findings for a
 I want to get better geography grades than most other students in 	8	Ð	Ø	Ð	θ	VH56692D	d. I want to get better geography grades than most other students in	Ø	Ð	O	Ð	Ð	VH717293		similarly worded item. Inclusion

revious item							rade 8 Geograg 2018 item	-						D/A/ R/NC+	Rationale
2017 Grade 8)															recommended for creating content consistency across subjects
 How much does each one answer choice on 	each row.	A little bit	Somewhat	Quite a bit	7 Select Exactly like	VHS63926	 How much does each choice on each row. 	of the follow	ving statemen	ts describe yo	u? Select one Quite a bit		VH717301	R	Revisions were made to the item stem per
 I want to learn as much as possible about geography in my class. 	like me	like me T	like me ©	like me ©	me D	VH565927	 a. I want to learn as much as possible about geography in my class. 	like me	Tike me	like me	like me	©	VH717302		recommendati n of the Questionnaire
b. I want to master a lot of new geography skills in my class.	Ø	Ð	0	θ	Ð	VH565928	b. I want to master a lot of new geography skills in my class.	۵	Ð	o	Ø	Ð	VH717303		Standing
 c. I want to become a better geography student this year. d. I want to get good 	۵	Ð	Q	Ð	Φ	VH565930	 c. I want to become a better geography student this year. 	Ø	Ð	©	Ð	Ð	VH717305		Committee fro science cog la
grades in my geography schoolwork. e. I want to understand	0	Ð	Q	0	Φ	V71565931	d. I want to understand as much as I can about geography in my class.	0	Φ	0	Ð	Φ	VH717306		findings for a similarly word
017 Grade 8)							Issue : Student Fa	ctors							of this item is also
															recommended for creating content consistency across subject

revious item							2018 item							D/A/ R/NC+	Rationale
 How much does each one answer choice on 	of the follow each row. Not at all	ing statement	s describe a pe Somewhat	erson like you Ouite a bit	i? Select Exactly like	VH459275	 How much does each choice on each row. 						911717299	R	Revisions were made to the
	like me	like me	like me	like me	me			Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me			item stem per
 Geography is one of my favorite subjects to study. 	Ø	Ð	Q	Φ	Φ	VH459276	 Geography is one of my favorite subjects to study. 	0	Ð	Ø	Ð	Φ	VH717260		recommendation n of the
b. Schoolwork about geography is easy for me.	0	Ð	0	θ	θ	V13459277	 b. I enjoy doing schoolwork about geography. 	Ø	Ð	Ø	Ð	Ð	VH717265		Questionnaire Standing
c. I enjoy doing schoolwork about geography.	Φ	Ð	0	Φ	Φ	VH459280	c. I enjoy discussing geography topics with others.	0	Ð	Ø	۵	Ð	931717263		Committee from
 I enjoy discussing geography topics with others. 	0	Ð	0	۵	Ð	VH459283	 d. I think that geography schoolwork helps me understand what is 	60	æ	Q	Ð	Φ	VH717264		science cog lab findings for a
 I think that geography schoolwork helps me understand what is happening in the 	Ø	Ð	0	Ø	Ð	VH459284	happening in the world around me.	Q.	¢.	0		ŵ.	11111220		similarly worde item. Inclusion
world around me.	1.00		1.10	1.0		100	about geography topics	(1)	Ð	Ø	Ø	Ð	VH717262		of this item is
f. I think that learning about geography topics will be important for my future.	Ø	Ð	Ø	۵	Ð	VH459285	will be important for my future.								also
	0						Issue: Student Fac	rtors							recommended
0.17 Crede (0)							issue. Student rad								for creating
2017 Grade 8)															content
															consistency
															across subjects
															Subitem "b" wa
															dropped in ord
															to maintain
															consistency
															across subjects
															for items in the
															Interest index.

							2018 item							D/A/ R/NC+	Rationale
8. During this school yea school? Select one ans	ar, how often swer choice or	do you do each 1 each row.	ı of the follow	ing outside of		VH459292	36. During this school year of school? Select one ar	r, how often nswer choic	do you do eacl e on each row.	ı of the follow	ing activities	outside	V11717389	R	Revisions were made to the
	Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day			Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day			item stem per recommendati
 Use online maps (for example, Google Maps, MapQuest, or Bing Maps) 	Ø	Φ	0	θ	Φ	VH459293	 a. Use online maps (for example, Google Maps, MapQuest, or Bing Maps) 	0	Ð	Q	Ø	Ð	VH717390		n of the Questionnaire
b. Read about geographic issues	۵	Ð	0	θ	Ð	VI1459295	 Read about geographic issues 	Ø	Ð	Ø	Ð	Ð	VH717891		Standing
c. Give friends or family directions on how to get somewhere	Ø	Ð	0	θ	θ	VH459297	c. Travel to places outside of your town	۵	Ð	Ø	۵	Ð	VH717394		Committee fro science cog lab
 d. Look up geographic information in books or on the web 	Ø	Ð	0	θ	Ð	VH459298	 Talk to friends or family about geographic topics 	0	Ð	Ø	۵	Θ	VH717392		findings for a
e. Travel to places outside of your town	8	Ð	0	Ð	Ð	VH459299							10		similarly word
f. Talk to friends or family about geographic topics	0	Ð	0	0	Ð	VH459300	Issue: Student Fac	ctors							item.
															VH459293.
						VH457591								NG	Subitem "d" w dropped to reduce burden given that 31% of respondent chose "Never" and the conter overlaps with VH459295.
 How often do you receive studies outside of school Never About once or twice a About once or twice a About once or twice a Every day or almost a 	or after scho a year a month a week		member, or fi	riend with so	zial	V845721	 37. How often do you receiv studies outside of schoo Ø Never Ø About once or twice Ø About once or twice Ø About once or twice Ø Every day or almost 	el or after scl e a year e a month e a week		/ member, or f	friend with so	cial	¥19457791	NC	Subitem "d" w dropped to reduce burder given that 31% of respondent chose "Never" and the conter overlaps with

Previous item							2018 item	D/A/ R/NC+	Rationale
homework? © Less than 30 minute © 30 minutes up to 1 © 1 up to 2 hours a da © 2 up to 3 hours a da © 3 up to 4 hours a da	 a Less than 30 minutes a day 30 minutes up to 1 hour a day 1 up to 2 hours a day 2 up to 3 hours a day 3 up to 4 hours a day More than 4 hours a day To Grade 8) 						 38. Approximately how many hours a day do you spend on your social studies homework? Dess than 30 minutes a day 30 minutes up to 1 hour a day 1 up to 2 hours a day 2 up to 3 hours a day 3 up to 4 hours a day More than 4 hours a day Issue: Student Factors	⁴⁹⁹⁹⁷⁷ NC	N/A
12. When you study geogr	raphy, how m	uch does each	of the following	ng statements	5	VH565897	N/A	D	This item was
	Not at all	A little bit	Somewhat	Quite a bit		2			dropped and the version which
 a. I want other students to think I am a good student. 	Ø	Ð	©	Ø	Φ	V11565898			includes specifi subject
I want to show others that my schoolwork is easy for me.	۵	Ð	©	Φ	θ	VH565899			reference in the
c. I want to look smart in comparison to the other students in my class.	0	Ð	Ø	0	Φ	VH565903			retained. This will also create
I want to get better grades than most other students in my class.	Ø	Ð	۵	Φ	θ	VT15659D)			content consistency
2017 Grade 8) 13. When you study geogr describe a person like y	aphy, how mu you? Select 01 Not at all like me	ich does each ne answer cho A little bit like me	of the followin ice on each ro Somewhat like me	ng statements w. Quite a bit like me	Exactly like me	Vitacowr P	N/A	D	across subjects This item was dropped and th version which includes specifi
 I want to learn as much as possible in my class. 	60	ø	9	θ	θ	VISSING			subject
b. I want to master a lot of new skills in my class.	60	8	9	θ	θ	VISION			reference in the subitems was
c. I want to become a better student this year.	Ø	ø	Ø	Ð	Ð	VYESKOVI			retained. This will also create
d. I want to get good grades in my schoolwork.	æ	œ	0	θ	Ð	VH560912			content consistency
 I want to understand as much as I can in my 	æ	æ	Ø	0	æ	VESSING			across subjects

						G	rade 8 Geography Student		
Previous item							2018 item	D/A/ R/NC+	Rationale
11. In your social studies following? Select one	class this scho answer choice Never or	Less than	often have you About half	More than	All or	VH457910	N/A	D	This item has been dropped given that Self-
· · · · · · · · · · · · · · · · · · ·	hardly ever	half of the time	of the time	half of the time	almost all of the time				Control items
a. I came to my social studies class prepared.	0	Ð	Q	0	Θ	VH457921			are already
b. I remembered and followed directions from my social studies teacher.	8	Ð	0	θ	Φ	VH457922			included in Core
c. I started working on social studies assignments right away rather than waiting until the last minute.	Ø	Ð	Ø	Ø	Ð	VH457923			
 I paid attention and resisted distractions during social studies class. 	9	Ð	Ø	θ	Φ	VH457924			
 I stayed on task without reminders from my social studies teacher. 	9	Ð	Q	θ	Φ	¥H457925			

Appendix I-10: 2018 Operational Grade 8 Geography

choice on each row.					
	Yes, I took a class or course mainly focused on geography.	Yes, I took a class or course that included some geography topics.	No, I did not take a class or course that taught geography topics.	I don't remember.	

B

B

B

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O

1. In which of the following grades have you learned about geography? Select one answer choice on each row

2. In your social studies class this year, how much have you studied the following topics? Select one answer choice on each row.

A

Ø

Ø

a. 6th grade

b. 7th grade

c. 8th grade

		Not at all	Very little	Some	Quite a bit	A lot	
a.	Use of physical or digital maps (for example, a road map, MapQuest, or Google Maps) and globes	0	(1)	Ø	Ø	Ē	VH717072
b.	Natural resources (for example, oil, forests, or water)	Ø	®	Ø	Ø	Ē	VH459050
c.	Countries and cultures	A	®	O	O	Ē	VH459051
d.	Environmental issues (for example, pollution, recycling, climate change, or genetically modified food)	0	®	Q	Ø	Ē	VH459052

VH459048

VH459044

VH459045

VH459046

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D

 \bigcirc

3. During this school year, how often do you do each of the following activities? Select **one** answer choice on each row.

		Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	
a.	Read material from a geography textbook (print or digital)	Ø	ß	O	Ø	Ē	VH717181
b.	Read extra material about geography not in the regular textbook (for example, newspapers, magazines, or online sources)	0	®	0	Ø	¢	VH717182
с.	Conduct research about geography topics (for example, online, in a library, or through interviews)	Ø	®	Q	Ø	C	VH717184
d.	Listen to or watch movies, videos, or online content about geography topics	Ø	©	Ø	Ø	¢	VH717183

4. During this school year so far, how often have you done each of the following activities? Select **one** answer choice on each row.

		Never	Once	Two or three times	Four or five times	More than five times	
·	Gone on class field trips to learn about geography topics	0	ß	O	Ø	Ē	VH717246
	Given class presentations on geography topics	(9	ß	O	0	Θ	VH717249
	Written about your opinion on geographic problems or issues (for example, in a letter, e-mail, or blog post)	0	®	Ø	Ø	©	VH717248
	Taken part in environmental debates or panel discussions	0	ß	O	Ø	Ē	VH717247

VH717180

VH717245

228

		Never or hardly ever	Once in a while	Sometimes	Often	Always or almost always	
а.	Use a map (for example, a road map, MapQuest, or Google Maps), atlas, or globe to locate different cities, countries, and continents	0	®	O	Θ	Ē	VH717201
b.	Examine how natural features of Earth (for example, rivers or mountains) are formed	(9)	₿	Ø	Ø	¢	VH717202
c.	Examine why groups of people migrate to different parts of the world	Ø	6	O	Ø	Ē	VH717209
d.	Examine how humans affect the natural environment	۵	B	©	Ø	Ē	VH717206
e.	Examine how humans adjust to the natural environment	۵	B	C	Ø	Ē	VH717205
f.	Examine why different food and energy resources are traded globally	۵	₿	O	Ø	Ē	VH717207
g.	Use geographic information (for example, maps, satellite images, or population data) to answer a question or solve a problem	@	®	O	Ø	Ē	VH717208

5. During this school year, how often do you do each of the following activities when you study geography? Select **one** answer choice on each row.

		Never or hardly ever	Less than half of the lessons	About half of the lessons	More than half of the lessons	All or almost all of the lessons	
a.	Assignments that you have to complete together with other students	Ø	₿	Ø	Ø	C	VH457532
b.	Short written responses (for example, a paragraph or less)	(9)	Θ	0	0	Ē	VH457533
c.	Assignments that use different forms of media (for example, photos, videos, or music)	Ø	ഀ	0	0	¢	VH457534
d.	Long written responses (for example, several paragraphs)	0	ഀ	0	0	¢	VH457540
e.	Responses to questions based on information from several sources (for example, letters, cartoons, or maps)	0	₿	Q	Ø	¢	VH457542

6. In your social studies class this year, how often do you get the following assignments? Select **one** answer choice on each row.

VH459263

7. When you study social studies, how often do you use computers or other digital devices to do the following? For this question, include both schoolwork and homework assignments. Select **one** answer choice on each row.

		Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	
а.	Play games or use apps in which you play a role (for example, an explorer, geographer, or historian)	Ø	©	O	Ø	¢	VH727929
b.	Organize information about geography topics by creating tables, charts, or graphs	0	®	O	Ø	¢	VH459268
C.	Create reports or projects about geography using different forms of media (for example, a slide presentation that combines text and video clips)	0	©	Θ	Ø	¢	VH459269
d.	Participate in online discussions about geography on a website (for example, in forums or social media)	0	®	Ø	Ø	¢	VH459270
e.	Use the Internet to look for evidence or sources (for example, text documents, photographic images, or films)	Ø	®	O	Ø	¢	VH459271

		I definitely can't	I probably can't	Maybe	I probably can	I definitely can	
a.	Use a map (for example, a road map, MapQuest, or Google Maps), atlas, or globe to locate different cities, countries, and continents	Ø	ഀ	O	Ø	¢	VH459342
b.	Describe how natural features of Earth (for example, rivers or mountains) are formed	Ø	ഀ	O	Ø	¢	VH728006
c.	Explain why groups of people migrate to different parts of the world	0	6	O	Ø	¢	VH459357
d.	Explain how humans affect the natural environment	Ø	B	Ø	Ø	Ē	VH459358
e.	Explain how humans adjust to the natural environment	Ø	B	O	Ø	Ē	VH602980
f.	Explain why different food and energy resources are traded globally	Ø	₿	Ø	۵	Ē	VH459359
g.	Use geographic information (for example, maps, satellite images, or population data) to answer a question or solve a problem	0	®	Ø	Ø	Ē	VH459361

8. Do you think that you would be able to do each of the following? Select **one** answer choice on each row.

	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me	
a. I want other students to think I am a good geography student.	۵	ß	Ø	Ø	Ē	VH717291
b. I want to show others that my geography schoolwork is easy for me.	0	Θ	0	0	Θ	VH717294
c. I want to look smart in comparison to the other students in my social studies or geography class.	Ø	ഀ	Ø	Ø	©	VH717292
d. I want to get better geography grades than most other students in my class.	۵	ß	Ö	Ø	Ē	VH717293

9. How much does each of the following statements describe you? Select **one** answer choice on each row.

10. How much does each of the following statements describe you? Select **one** answer choice on each row.

		Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me	
а.	I want to learn as much as possible about geography in my class.	0	®	Ø	Ø	C	VH717302
b.	I want to master a lot of new geography skills in my class.	0	®	0	Ø	Ē	VH717303
c.	I want to become a better geography student this year.	0	®	Ø	Ø	Ē	VH717305
d.	I want to understand as much as I can about geography in my class.	0	®	Ø	Ø	Ē	VH717306

VH717301

		Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me	
a.	Geography is one of my favorite subjects to study.	0	®	Ø	Ø	Ē	VH717260
b.	I enjoy doing schoolwork about geography.	0	®	Ø	Ø	Ē	VH717265
c.	I enjoy discussing geography topics with others.	(9)	ß	0	0	Ē	VH717263
d.	I think that geography schoolwork helps me understand what is happening in the world around me.	0	(6)	Q	Ø	¢	VH717264
e.	I think that learning about geography topics will be important for my future.	0	₿	Ø	Θ	Ē	VH717262

11. How much does each of the following statements describe you? Select **one** answer choice on each row.

12. During this school year, how often do you do each of the following activities **outside of school**? Select **one** answer choice on each row.

	Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	
a. Use online maps (for example, Google Maps, MapQuest, or Bing Maps)	Ø	®	O	Ø	C	VH717390
b. Read about geographic issues	Ø	®	O	Ø	Ē	VH717391
c. Travel to places outside of your town	Ø	®	O	Ø	Ē	VH717394
d. Talk to friends or family about geographic topics	Ø	®	O	Ø	Ē	VH717392

13. How often do you receive help from a tutor, family member, or friend with social studies **outside of school or after school**?

- Never
- [®] About once or twice a year
- © About once or twice a month
- About once or twice a week
- © Every day or almost every day

- **14.** Approximately how many hours a day do you spend on your **social studies** homework?
 - (D) Less than 30 minutes a day
 - (B) 30 minutes up to 1 hour a day
 - © 1 up to 2 hours a day
 - \bigcirc 2 up to 3 hours a day
 - © 3 up to 4 hours a day
 - © More than 4 hours a day

Appendix I-1p: Summary of Revisions Grade 8 U.S. History

Previous item						2018 item							D/A/ R/NC+	Rationale
1. In which of the followi one answer choice on o	ng grades have y each row.	ou learned about	United States his	ory? Select	VH459678	25. In which of the follow one answer choice on	ing grades have each row.	e you learn	ned about Un	ited States histor	y? Select	V 6459698	R	Subitem "a" was dropped given
	Yes, I tool class or cou mainly focused o United Sta history.	rse class or cou that includ some Unit	take a class o course that taught United	I don't			Yes, I to class or c main focused United S histor	ourse cla ly th f on so tates Sta	ves, I took a ass or course hat included ome United tates history topics.	No, I did not take a class or course that taught United States history topics.	I don't remember.			the high frequency percentage for
a. 5th grade	۵	Ð	O	٥	VH459699	a. 6th grade	0		0	O	٩	VH459700		the response "I
b. 6th grade	0	Ð	O	٩	VH469700	b. 7th grade	0		•	0	0	VH459701		don't know".
 c. 7th grade d. 8th grade 	Ø	Ð	O	0	VH459701 VH459782	c. 8th grade	9		Ð	©	0	VH459702		
 In your social studies periods of United Stat 	es history? Selec	t one answer cho				26. In your social studies periods of United Stat			nswer choice of	on each row.	A lot		NC	N/A
a. The period before 1815 (for example, age of exploration, colonization, settlement, or American Revolution)	Ø	D.	0 0	Ð	VH459720	a. The period before 1815 (for example, age of exploration, colonization, settlement, or American Revolution)	Ø	æ	0		Ð	¥H45972D		
b. 1815 to 1865 (for example, expansion, reform, sectionalism, or the Civil War)	Ø	Φ	¢ ø	Φ	VH459721	b. 1815 to 1865 (for example, expansion, reform, sectionalism, or the Civil War)	Ø	Ð	0	Ð	œ	VH459721		
c. 1865 to 1945 (for example, Reconstruction, industrial growth, United States role in world events, immigration, the Great Depression, or the Great Depression, or	Ø	Ð	0 0	Φ	974459722	c. 1865 to 1945 (for example, Reconstruction, industrial growth, United States role in world events, immigration, the Great Depression, or the First and Second World Wars)	Ø	Ф	Ø	۵	Φ	V1459722		
the First and Second World Wars) d. 1945 to the present			0 0	Φ	VH459723	d. 1945 to the present (for example, the Cold War, Civil Rights movement, women's rights movement,	Ø	Ð	Q	Ø	Θ	YH459723		

Previous item							2018 item							D/A/ R/NC+	Rationale
 During this school year choice on each row. 	r, how often	do you do each	of the followin	ng? Select one	answer	VH459754	 During this school year, how often do you do each of the following activities? Select one answer choice on each row. 								The item stem has been revise
	Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day			Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day			per Translatability
a. Read material from a United States history textbook	Ø	Ð	©	Ð	Ð	VH459756	a. Read material from a United States history textbook (print or	Ø	Φ	Q	Ø	Ð	VH718237		Review to add
Read extra material about United States history not in the regular textbook (for example, newspapers, magazines, or online sources)	۵	Ð	Ø	Ø	Θ	VH459757	digital) b. Read extra material about United States history not in the regular textbook (for example, newspapers, magazines, or online sources)	۵	Φ	Ø	Φ	Φ	VH718238-		"the following" Revisions were made to subite
c. Use primary sources (for example, letters, diaries, photographs, films, or essays written by people from the past)	۵	D	Ø	Ð	θ	VH459758	c. Use primary sources (for example, letters, diaries, photographs, films, or essays written by people from	۵	Φ	Ø	Φ	θ	VH788242		"a" to include print or digital books, and to
 Discuss material about United States history with peers or teachers 	0	Ð	©	0	Φ	VH459760	the past) d. Conduct research						-		maintain
e. Conduct research about United States history topics (for example, in a library or through interviews	۵	Φ	Q	Ø	Φ	VH459762	about United States history topics (for example, online, in a library, or through interviews)	Ø	Ð	Ø	Φ	Θ	VH718241		consistency wi changes made other survey
or observations) f. Listen to or watch movies, videos, or online content about United States history topics	@	Ð	Ø	۵	Ð	VH459763	e. Listen to or watch movies, videos, or online content about United States history topics	Ø	Ð	Ø	۵	Ð	VH718239		questionnaires
2017 Grade 8)							Issue: Organizatio	n of Ins	struction						dropped to reduce burden and given that specific information unique to a particular task activity is not being captured
															Revisions were made to subitem "e" to clarify the examples giver

Previous item																D/A/ R/NC+	Rationale
 During this school yea one answer choice on one 	During this school year so far, how often have you done each of the following? Select one answer choice on each row.						28. During this school year so far, how often have you done each of the following activities? Select one answer choice on each row.							R	The item stem has been revise		
	Never	Once	Two or three times	Four or five times	More than five times			Never	Once	Two or three times	Four or five times	More than five times			per Translatability		
a. Gone on class field trips to learn about United States history topics	0	θ	0	Φ	θ	VH459793	a. Gone on class field trips to learn about United States history topics	۹	Ð	Ø	Φ	Φ	VH718302		Translatability Review to add "activities" afte		
 b. Given class presentations on United States history topics 	۵	Ð	ø	۵	θ	VH459794	b. Given class presentations on United States history	θ	θ	Ø	Ø	Ð	VH718303		"the following"		
c. Written about your opinion on historical issues (for example, in a letter, e-mail, or blog post)	9	θ	Ø	Θ	Θ	VH459797	topics c. Written about your opinion on historical issues (for example, in a letter, e-mail, or blog	Ø	Ð	Ø	٩	Ð	VH718306				
d. Taken part in historical debates or panel discussions	Ø	θ	Ø	0	θ	VH459799	post) d. Taken part in historical debates or	0	θ	o	Ð	Θ	VH718305				
e. Taken part in role-playing, mock trials, or dramas about United States history topics	۵	Ð	Ø	Φ	Ð	V13459800	panel discussions e. Taken part in role-playing, mock trials, or dramas about United States history topics	۲	Ø	o	Ð	Φ	V31718304				

Previous item							2018 item							D/A/ R/NC+	Rationale
5. During this school ye United States history	ar, how often o ? Select one an	lo you do eacl swer choice o	n of the followin on each row.	ng when you	ı study	VH499802	29. During this school ye you study United Stat					when	VH718591	R	The item stem has been revise
	Never or hardly ever	Once in a while	Sometimes	Often	Always or almost always			Never or hardly ever	Once in a while	Sometimes	Often	Always or almost always			per Translatability
a. Examine the causes and effects of important events in United States history	0	θ	0	θ	θ	VH459803	a. Examine the causes and effects of important events in United States history	Ø	Ð	Q	Ð	Ð	VH718592		Review to add "activities" afte
 Examine how time periods in United States history are similar or different 	Ø	Ð	Ø	۵	Φ	VH459806	 Examine how time periods in United States history are similar or different 	Θ	Ð	Ø	Φ	Ð	VH718593		"the following"
c. Judge whether information from a source (for example, text, visual graphics, video, or audio) is accurate	Ø	Φ	Ø	Ø	Ð	VH459808	c. Judge whether information from a source (for example, text, visual graphics, video, or audio) is	Ø	Ð	ø	θ	Φ	VH718594		
 Analyze the relationship between two historical events 	۲	θ	©	•	Φ	VH459866	accurate d. Analyze the relationship between	0	Đ	ø	Ð	Ð	VH718598		
e. Compare and evaluate different points of view about the past (for example, different ideas about what caused the Civil War)	۵	θ	0	Φ	θ	V31459868	two historical events e. Compare and evaluate different points of view about the past (for example, different ideas about what	۵	Ð	Q	Ø	Ð	V¥1718596		
f. Come up with research questions about why or how something happened in the past (for example, what were the causes of the Great Depression)	60	Ð	Ø	Φ	Đ	VH459870	caused the Civil War) f. Come up with research questions about why or how something happened in the past (for example, what were	Ø	Ð	۵	Ð	Ð	V)1718597		
g. Take and defend a position about a historical issue (for example, how changes in transportation have affected the United States economy)	۵	Φ	Q	٩	Ð	VH459871	the causes of the Great Depression) g. Take and defend a position about a historical issue (for example, how changes in transportation have affected the United	Ø	Φ	©	Φ	Φ	VH718595		
2017 Grade 8)							States economy)								

revious item							2018 item							D/A/ R/NC+	Rationale
6. In your social studies assignments? Select o	class this yea one answer cho	r, how often de bice on each ro) you get the forw.	ollowing	·	VH457531	30. In your social studies assignments? Select o	class this year ne answer cho	r, how often do bice on each ro	o you get the f ow.	ollowing		VB457591	NC	N/A
	Never or hardly ever	Less than half of the lessons	About half of the lessons	More than half of the lessons	All or almost all of the lessons			Never or hardly ever	Less than half of the lessons	About half of the lessons	More than half of the lessons	All or almost all of the lessons			
 Assignments that you have to complete together with other students 	۵	Đ	Θ	0	Φ	VH457532	 Assignments that you have to complete together with other students 	۵	Ð	Ø	۵	Ð	VH457532		
b. Short written responses (for example, a paragraph or less)	Ø	Ð	Ø	Ø	Θ	VH457533	b. Short written responses (for example, a paragraph or less)	8	Ð	©	Ø	Ð	VE4457533		
c. Assignments that use different forms of media (for example, photos, videos, or music)	۵	Ð	Ø	Ø	θ	VH457534	c. Assignments that use different forms of media (for example, photos, videos, or	Ø	Ð	Q	۵	Ð	VH457534		
 d. Long written responses (for example, several paragraphs) 	۵	Φ	Q	0	θ	VH457540	d. Long written responses (for example, several	6	Ð	Q	Ø	œ	VE645754D		
e. Responses to questions based on information from several sources (for example, letters, cartoons, or maps)	Ø	Đ	Ø	۵	Φ	VH457542	e. Responses to questions based on information from several sources (for example, letters, cartoons, or maps)	Ø	Φ	Q	۵	Φ	VH457542		

Previous item							2018 item							D/A/ R/NC+	Rationale
 When you study social devices to do the follow homework assignment 	wing? For thi	is question, inc	lude both sch	s or other digi polwork and	tal	VH459889	 When you study social devices to do the follow homework assignments 	ing? For thi	is question, incl	lude both scho	or other digi oolwork and	tal	V1439889	R	Subitem "a" wa revised for
	Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day			Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day			clarity as per Fresh Eyes
 Use games or apps in which you play a role (for example, an explorer, geographer, or historian) 	Ø	Ð	Q	Φ	Ð	VI:1459890	 Play games or use apps in which you play a role (for example, an explorer, geographer, or historian) 	٩	Ð	Ø	Ø	Ð	VH727925		review, from "Use games or apps" to "Play
b. Organize information about United States history topics by creating tables, charts, or graphs	۵	Φ	Ø	0	Ð	VH459892	 Organize information about United States history topics by creating tables, charts, or graphs 	0	Ð	Ø	Φ	Œ	VH459892		games or use apps".
c. Create reports or projects about United States history using different forms of media (for example, a slide presentation that combines text and video clips)	Φ	Φ	Ø	θ	Ð	VH459893	c. Create reports or projects about United States history using different forms of media (for example, a slide presentation that combines text and	θ	Ð	Ø	θ	Φ	VH459893		
d. Participate in online discussions about United States history on a website (for example, in forums or social media)	۵	Ø	Ø	۵	Ð	VH459894	video clips) d. Participate in online discussions about United States history on a website (for example, in forums or	٩	Ð	Ø	Ø	Φ	V31459894		
Use the Internet to look for evidence or sources (for example, text documents, photographic images, or films)	Ø	Ð	Ø	Ø	Ð	V14459895	social media) e. Use the Internet to look for evidence or sources (for example, text documents, photographic images, or films)	Ø	Ð	Ø	Φ	Φ	VH459895		
2017 Grade 8)							Issue: Organization	n of Ins	truction						

Previous item							2018 item							D/A/ R/NC+	Rationale
12. How much does each one answer choice on		ing statement	s describe a pe	erson like you	? Select	VH460064	32. How much does each choice on each row.	of the follow	ing statemen/	ts describe yo	u? Select one	answer	VH719828	R	Revisions were made to the
	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me			Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me			item stem per
 a. I form opinions about historical events only after I have information from more than one source. 	8	æ	©	Φ	Ð	VI4460068	 I form opinions about historical events only after I have information from more than one source. 	0	æ	0	Ð	θ	VI(719829		recommendation n of the Questionnaire
b. I need to know the history leading up to an event to truly understand it.	9	Ð	ø	۵	Φ	V14460069	b. I need to know the history leading up to an event to truly understand it.	0	Ð	0	Ø	θ	VH71983D		Standing Committee from
c. I want to know what lies behind the story when I study a conflict in history.	θ	Ð	ø	Ð	Φ	VH460071	c. I want to know what lies behind the story when I study a conflict in history.	Ø	Ð	Q	۵	θ	VH719834		science cog lab findings for a
 I try to understand others better by imagining how things look from their perspective. 	9	Ð	0	Ð	Φ	VH460074	d. I try to understand others better by imagining how things look from their perspective.	Ø	Ð	Q	۵	Θ	VH719832.		similarly worde item.
e. I try to look at everybody's side of a disagreement before I make a decision.	Ø	Ð	Ø	Ø	Φ	VH460075	e. I try to look at everybody's side of a disagreement before I make a decision.	Ø	Ð	0	۵	θ	VH719833		
f. I believe that there is more than one side to every question, and I try to look at all of them.	Ø	æ	Q	Ð	Ð	VH460076	f. I think that there is more than one side to every question, and I try to look at all of them.	Ø	æ	Q	۵	θ	VH719831		

Previous item							2018 item							D/A/ R/NC+	Rationale
 Do you think that you choice on each row. 	u would be abl	le to do each c	of the followi	ng? Select one	answer	VH460009	 Do you think that you choice on each row. 	ı would be abl	le to do each o	f the followi	ng? Select one	answer	A13460060	NC	N/A
	I definitely can't	I probably can't	Maybe	I probably can	1 definitely can			1 definitely can't	I probably can't	Maybe	I probably can	I definitely can			
a. Explain the causes and effects of important events in United States history	۵	θ	0	۵	θ	V93460011	a. Explain the causes and effects of important events in United States history	۹	Ð	Ø	Ø	Θ	YH460011		
 Explain how time periods in United States history are similar or different 	Ø	Φ	0	Φ	Ð	VH460016	 b. Explain how time periods in United States history are similar or different 	0	Θ	Q	0	Φ	VH460016		
Judge whether information from a source (for example, text, visual graphics, video, or audio) is accurate	Ø	θ	Q	Ð	Φ	v91460017	c. Judge whether information from a source (for example, text, visual graphics, video, or audio) is accurate	Ø	Ð	Ø	Ø	Φ	VH460017		
d. Understand the relationship between two historical events	۵	θ	0	Ø	Φ	VH460041	d. Understand the relationship between two historical events	Θ	Ð	Q	Ð	Ð	VH460041		
c. Compare and evaluate different points of view about the past (for example, different ideas about what caused the Civil War)	۵	θ	Q	Ð	Φ	VH460042	e. Compare and evaluate different points of view about the past (for example, different ideas about what caused the Civil War)	Ø	Φ	Ø	Ø	Θ	VH460042		
f. Come up with research questions about why or how something happened in the past (for example, what were the causes of the Great Depression)	۵	θ	0	Ð	Θ	VH480043	f. Come up with research questions about why or how something happened in the past (for example, what were the causes of the Great Depression)	۵	Ø	Q	¢	Ð	VH460043		
g. Take and defend a position about a historical issue (for example, how changes in transportation have affected the United States economy)	ø	Φ	ø	Ð	Φ	V11460044	g. Take and defend a position about a historical issue (for example, how changes in transportation have affected the United States economy)	Θ	Φ	Ø	Ð	Φ	VH460044		

Previous item							2018 item							D/A/ R/NC+	Rationale
15. How much does each one answer choice on		ing statement	s describe a pe	erson like you	? Select	VH366238	34. How much does each choice on each row.	of the follow	ing statement	s describe you	1? Select one	answer	V1E719843	R	Revisions were made to the
	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me			Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me			item stem per
 I want other students to think I am a good United States history student. 	Θ	æ	©	Θ	θ	¥H566259	a. I want other students to think I am a good United States history	Ø	œ	Ø	Φ	θ	VH719844		recommendati n of the Questionnaire
b. I want to show others that my United States history schoolwork is easy for me.	Ø	Ð	Ø	۵	Ð	VH566260	student. b. I want to show others that my United States history schoolwork is	٩	Ð	ø	Ð	Ð	VH719847		Standing Committee fro
c. I want to look smart in comparison to the other students in my social studies or United States history class.	Ø	Ð	©	٩	Ð	VH566264	easy for me. c. I want to look smart in comparison to the other students in my social studies or United States history	۵	Ð	Ø	θ	θ	VH719845-		science cog lab findings for a similarly worde
d. I want to get better United States history grades than most other students in my class.	۵	Ð	ø	Ð	Ø	VH566262	class. d. I want to get better United States history grades than most other students in my class.	٩	Ð	ø	Ð	Φ	VH719846		item. Inclusion of this item is
2017 Grade 8)							Issue: Student Fa	ctors							for creating content consistency
	each row.					VB566274	Issue: Student Fac 35. How much does each choice on each row.	h of the follo Not at all	A little bit	Somewhat	Quite a bit	Exactly like	V1/720606	R	recommended for creating content consistency across subjects Revisions were made to the
 How much does each one answer choice on 	of the followi each row. Not at all like me	ng statements A little bit like me	s describe a pa Somewhat like me		17 Select Exactly like me	_	35. How much does each choice on each row.	h of the follo	-				V11733496	R	recommended for creating content consistency across subjects Revisions were made to the item stem per
 How much does each one answer choice on 	each row. Not at all	A little bit	Somewhat	Quite a bit	Exactly like	_	 35. How much does each choice on each row. a. I want to learn as much as possible about United States history in my class. 	h of the follo Not at all	A little bit	Somewhat	Quite a bit	Exactly like	V11720406	R	recommended for creating content consistency across subjects Revisions were made to the item stem per
a. I want to learn as much as possible about United States	each row. Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me		 35. How much does each choice on each row. a. I want to learn as much as possible about United States history in my class. b. I want to master a lot of new United States history skills in my class. 	h of the follo Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me		R	recommended for creating content consistency across subjects Revisions were made to the item stem per recommendati n of the Questionnaire Standing
 16. How much does each one answer choice on a. I want to learn as much as possible about United States history in my class. b. I want to master a lot of new United States history skills in my 	each row. Not at all like me	A little bit like me	Somewhat like me	Quite a bit líke me ©	Exactly like me	V11566275	 35. How much does each choice on each row. a. I want to learn as much as possible about United States history in my class. b. I want to master a lot of new United States history skills in my 	h of the follo Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me ©	Exactly like me	V11720608	R	recommended for creating content consistency across subjects Revisions were made to the item stem per recommendati n of the Questionnaire Standing Committee fro science cog lab findings for a
 16. How much does each one answer choice on answer choice on a. I want to learn as much as possible about United States history in my class. b. I want to master a lot of new United States history skills in my class. c. I want to become a better United States history student this year. 	each row. Not at all like me	A little bit like me D	Somewhat like me ©	Quite a bit like me ©	Exactly like me ©	VH566275 VH566276	 35. How much does each choice on each row. a. I want to learn as much as possible about United States history in my class. b. I want to master a lot of new United States history skills in my class. c. I want to become a better United States history student this story student this	h of the follo Not at all like me	A little bit like me D	Somewhat like me ©	Quite a bit like me ©	Exactly like me D	V11720608 V11720609	R	recommended for creating content consistency across subjects Revisions were made to the item stem per recommendati n of the Questionnaire Standing Committee fro science cog lab findings for a similarly worde item. Inclusion
 How much does each one answer choice on a. I want to learn as much as possible about United States history in my class. b. I want to master a lot of new United States history skills in my class. c. I want to become a better United States history student this year. d. I want to get good grades in my United States history 	each row. Not at all like me ©	A little bit like me	Somewhat like me	Quite a bit like me © ©	© ©	V11566275 V11566276 V11566278	 35. How much does each choice on each row. a. I want to learn as much as possible about United States history in my class. b. I want to master a lot of new United States history skills in my class. c. I want to become a better United States history student this year. d. I want to understand as much as I can about United States history are how the shown of the s	h of the follo Not at all like me	A little bit like me D D D	Somewhat like me ©	Quite a bit like me © ©	Exactly like D D D	V11720608 V11720609 V11720611	R	recommended for creating content consistency across subjects Revisions were made to the item stem per recommendati n of the Questionnaire Standing Committee fro science cog lab

Previous item							rade 8 US Histo 2018 item	-						D/A/ R/NC+	Rationale
															Subitem "d" was dropped in order to keep 4 items each from the mastery and performance facets of the achievement goals items.
9. How much does each one answer choice on	of the followi each row.	ng statement	s describe a pe	rson like you	? Select	VH459896	 How much does each choice on each row. 						VII718413	R	Revisions were made to the
	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me		1.	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me			item stem per
 United States history is one of my favorite subjects to study. 	0	Ð	Q	θ	Ð	VI1459897	 United States history is one of my favorite subjects to study. 	Ø	Ð	Ø	٩	Ð	VH718414		recommendatio n of the
 b. Schoolwork about United States history is easy for me. 	۵	Ð	Ø	θ	Φ	VH459898	 b. I enjoy doing schoolwork about United States history. 	0	Φ	0	۵	Ð	VH718419		Questionnaire Standing
 c. I enjoy doing schoolwork about United States history. 	0	Ф	Ø	θ	Φ	VT6459901	c. I enjoy discussing United States history topics with others.	Ø	Ð	0	٩	Φ	VH718417		Committee from science cog lab
 I enjoy discussing United States history topics with others. 	Ø	Ð	Ø	Θ	Ð	VH459905	d. I think that United States history schoolwork helps me	Ø	Ð	Ø	۵	Ð	VH718418		findings for a
e. I think that United States history schoolwork helps me understand what is happening in the	Θ	Φ	0	θ	θ	VH459906	understand what is happening in the world around me. e. I think that learning about United States biotecory topics will be						VH718416		similarly worded item. Inclusion of this item is
 world around me. f. I think that learning about United States history topics will be important for my 	۵	Φ	Ø	θ	Φ	VH459907	history topics will be important for my future.	Ø	Ð	©	۵	Ð	VH/18416		also recommended for creating
(2017 Grade 8)							Issue : Student Fa	ctors							content consistency across subjects. Subitem "b" was dropped in order to maintain consistency across subjects for items in the

Previous item							2018 item							D/A/ R/NC+	Rationale
10. During this school year school? Select one answ			1 of the follow	ing outside of		VH459946	37. During this school year of school? Select one ar	r, how often nswer choice	do you do each e on each row.	n of the follow	ing activities	outside	V18718421	R	The item stem has been revise
	Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day			Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day			per Translatability
a. Read books about history	0	Ð	0	Ð	Ð	VH459947	 Read books about history 	0	Ð	©	۵	Ð	VH718432		Review to add
 b. Watch movies, videos, or TV programs about history 	۵	Ð	©	Ð	Ð	VH459949	 b. Watch movies, videos, or TV programs about history 	Ø	Ð	۵	۵	θ	VH718433		"activities" aft "the following"
c. Play video games about history	۵	Ð	0	Ø	Ð	VH459950	 c. Play video games about history 	Ø	Ð	O	۵	Ð	VH718484		
d. Go to history museums or historical sites	9	Ð	9	Φ	Ð	VH459952.	d. Go to history museums or historical sites	۵	Ð	©	۵	Ð	VH718438		Subitem "f" wa dropped due te
e. Do online research related to historical topics	Ø	Ð	0	Θ	Ð	VH459953	 e. Do online research related to historical topics 	Ø	Ð	Ø	۵	Φ	VH718436		redundancy w VH459953.
f. Visit websites about historical topics	0	Ð	0	0	θ	VH459954	f. Talk to friends or family about historical	0	Ð	0	0	Ð	VH718485		VH459953.
g. Talk to friends or family about historical topics	Ø	Ð	0	θ	θ	VH459955	topics								
2017 Grade 8)							Issue: Student Fac	tors							
 How often do you receivistudies outside of schoo Never About once or twice About once or twice About once or twice About once or twice Every day or almost 	l or after scl a year a month a week		y member, or	friend with so	cial		 38. How often do you receiv studies outside of school Never About once or twice About once or twice About once or twice Every day or almost 	or after sch a year a month a week		y member, or	friend with s	ocial	V1457791	NC	N/A
2017 Grade 8)							Issue: Resources f	or Lear	ning and	Instruct	ion				
 7. Approximately how man homework? © Less than 30 minutes © 30 minutes up to 1 h © 1 up to 2 hours a day © 2 up to 3 hours a day © 3 up to 4 hours a day © More than 4 hours a to 10 hours a day 	a day our a day	y do you spend	d on your soci	al studies		194499937	 38. Approximately how man homework? D Less than 30 minutes 30 minutes up to 1 hi 1 up to 2 hours a day 2 up to 3 hours a day 3 up to 4 hours a day More than 4 hours a day 	a day our a day	ıy do you spen	d on your soc	ial studies		¥14499077	NC	N/A
2017 Grade 8)							Issue : Student Fac								

revious item							2018 item	D/A/ R/NC	Rationale
 When you study United statements describe a p 	d States histo person like yo	ry, how much u? Select one	does each of answer choice	the following e on each row		VR566227	N/A	D	This item was dropped and th
i	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me				version which includes specifi
a. I want other students to think I am a good student.	Ø	Ð	Q	Ð	Ð	VH566228			subject
b. I want to show others that my schoolwork is easy for me.	Ø	Θ	0	Ø	Ð	VH566229			reference in th subitems was
c. I want to look smart in comparison to the other students in my class.	0	Ð	Ø	۵	Φ	VH566233			retained. This will also create
		· · · · · · · · · · · · · · · · · · ·		P		1			content
 I want to get better grades than most other students in my class. 	۵	Ð	Ø	Ø	Ð	V14566231			consistency across subjects
d. I want to get better grades than most other students in my class.						VH56241	N/A	D	across subjects This item was dropped and th
d. I want to get better grades than most other students in my class.					g v.	VH566241	N/A	D	This item was dropped and th version which
d. I want to get better grades than most other	ed States histo person like yo Not at all	ory, how much ou? Select one A little bit	h does each of answer choic Somewhat	the following e on each rov	B v. Exactly like	VH566241	N/A	D	This item was dropped and th version which
 d. I want to get better grades than most other students in my class. 2017 Grade 8) 14. When you study Unite statements describe a p a. I want to learn as much as possible in 	ed States histo person like yo Not at all like me	ory, how mucl ou? Select one A little bit like me	h does each of answer choic Somewhat like me	the following te on each rov Quite a bit like me	Sv. Exactly like me	VH566241	N/A	D	This item was dropped and th version which includes specif subject reference in th
 d. I want to get better grades than most other students in my class. 2017 Grade 8) 14. When you study Unite statements describe a provide the statements describe in my class. b. I want to learn as much as possible in my class. b. I want to master a lot of new skills in my 	ed States histo person like yo Not at all like me	ory, how mucl ou? Select one A little bit like me D	h does each of answer choic Somewhat like me	the following te on each rov Quite a bit like me ©	g v. Exactly like me D	V1566341 P	N/A	D	across subjects This item was dropped and th version which includes specif subject reference in th subitems was retained. This
 d. I want to get better grades than most other students in my class. 2017 Grade 8) 14. When you study Unite statements describe a provide the statements describe a provide the statement of the stateme	ed States histo person like yo Not at all like me Ø	ory, how much ou? Select one A little bit like me D D	h does each of answer choic Somewhat like me ©	the following te on each rov Quite a bit fike me ©	Sy. Exactly like me D	V1566341 9 V1566342 V31566343	N/A	D	across subjects This item was dropped and th version which includes specifi subject reference in th subitems was

Previous item							2018 item	D/A/ R/NC+	Rationale
 In your social studies following? Select one 	class this scho answer choice Never or hardly ever	ool year, how e on each row. Less than half of the time	often have you About half of the time	done each of More than halí of the time	the All or almost all ol the time	vн457919 f	N/A	D	This item has been dropped given that Self- Control items
a. I came to my social studies class prepared.	0	Đ	©	©	D	VI6457921			are already
 b. I remembered and followed directions from my social studies teacher. 	0	Ð	©	Φ	θ	VH457922			included in Cor
c. I started working on social studies assignments right away rather than waiting until the last minute.	Ø	Ð	Ø	Φ	Ð	VI(457923			
d. I paid attention and resisted distractions during social studies class.	Ø	Ð	Ø	0	θ	VH457924			
e. I stayed on task without reminders from my social studies teacher.	8	Ð	Q	θ	Θ	V13457925			

Appendix I-1q: 2018 Operational Grade 8 U.S. History

1. In which of the following grades have you learned about United States history? Select **one** answer choice on each row.

	Yes, I took a class or course mainly focused on United States history.	Yes, I took a class or course that included some United States history topics.	No, I did not take a class or course that taught United States history topics.	I don't remember.	
a. 6th grade	A	®	Ô	Ø	VH459700
b. 7th grade	A	®	O	Ð	VH459701
c. 8th grade	®	B	©	D	VH459702

2. In your social studies class this year, how much have you studied the following periods of United States history? Select **one** answer choice on each row.

	Not at all	Very little	Some	Quite a bit	A lot	
a. The period before 1815 (for example, age of exploration, colonization, settlement, or American Revolution)	۵	®	Q	Ø	¢	VH459720
b. 1815 to 1865 (for example, expansion, reform, sectionalism, or the Civil War)	۲	ſ	0	Ø	¢	VH459721
c. 1865 to 1945 (for example, Reconstruction, industrial growth, United States role in world events, immigration, the Great Depression, or the First and Second World Wars)	۵	®	Q	Ø	¢	VH459722
d. 1945 to the present (for example, the Cold War, Civil Rights movement, women's rights movement, Vietnam War, or environmental movement)	۵	®	Q	Ø	¢	VH459723

VH459719

3. During this school year, how often do you do each of the following activities? Select **one** answer choice on each row.

		Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	
a.	Read material from a United States history textbook (print or digital)	Ø	ß	O	Ø	Ē	VH718237
b.	Read extra material about United States history not in the regular textbook (for example, newspapers, magazines, or online sources)	0	®	Ø	Ø	¢	VH718238
C.	Use primary sources (for example, letters, diaries, photographs, films, or essays written by people from the past)	(9	®	Ø	0	¢	VH718242
d.	Conduct research about United States history topics (for example, online, in a library, or through interviews)	0	®	Ø	Ø	¢	VH718241
e.	Listen to or watch movies, videos, or online content about United States history topics	Ø	®	O	Ø	¢	VH718239

		Never	Once	Two or three times	Four or five times	More than five times	
a.	Gone on class field trips to learn about United States history topics	Ø	ß	O	Ø	Ē	VH718302
b.	Given class presentations on United States history topics	0	6	0	Θ	G	VH718303
c.	Written about your opinion on historical issues (for example, in a letter, e-mail, or blog post)	0	®	Ø	Ø	Ē	VH718306
d.	Taken part in historical debates or panel discussions	Ø	®	O	Ø	Ē	VH718305
e.	Taken part in role-playing, mock trials, or dramas about United States history topics	0	®	Q	Ø	Ē	VH718304

4. During this school year so far, how often have you done each of the following activities? Select **one** answer choice on each row.

		Never or hardly ever	Once in a while	Sometimes	Often	Always or almost always	
а.	Examine the causes and effects of important events in United States history	0	©	O	Ø	¢	VH718592
b.	Examine how time periods in United States history are similar or different	0	ß	©	Ø	Ē	VH718593
C.	Judge whether information from a source (for example, text, visual graphics, video, or audio) is accurate	Ø	6	O	Ø	Ē	VH718594
d.	Analyze the relationship between two historical events	Ø	6	Ø	0	Ē	VH718598
e.	Compare and evaluate different points of view about the past (for example, different ideas about what caused the Civil War)	0	®	Ø	Ø	¢	VH718596
	Come up with research questions about why or how something happened in the past (for example, what were the causes of the Great Depression)	Ø	®	O	Ø	¢	VH718597
g.	Take and defend a position about a historical issue (for example, how changes in transportation have affected the United States economy)	Ø	®	O	Ø	Ē	VH718595

5. During this school year, how often do you do each of the following activities when you study United States history? Select **one** answer choice on each row.

		Never or hardly ever	Less than half of the lessons	About half of the lessons	More than half of the lessons	All or almost all of the lessons	
a.	Assignments that you have to complete together with other students	Ø	®	Ø	Ø	©	VH457532
b.	Short written responses (for example, a paragraph or less)	(9)	(9	0	0	Ē	VH457533
c.	Assignments that use different forms of media (for example, photos, videos, or music)	Ø	®	Ø	Ø	©	VH457534
d.	Long written responses (for example, several paragraphs)	Ø	®	Ø	Ø	©	VH457540
e.	Responses to questions based on information from several sources (for example, letters, cartoons, or maps)	0	®	Q	Ø	¢	VH457542

6. In your social studies class this year, how often do you get the following assignments? Select **one** answer choice on each row.

7. When you study social studies, how often do you use computers or other digital devices to do the following? For this question, include both schoolwork and homework assignments. Select **one** answer choice on each row.

		Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	
а.	Play games or use apps in which you play a role (for example, an explorer, geographer, or historian)	0	ſ	O	Ø	¢	VH727925
b.	Organize information about United States history topics by creating tables, charts, or graphs	0	6	Ø	Ø	¢	VH459892
c.	Create reports or projects about United States history using different forms of media (for example, a slide presentation that combines text and video clips)	0	®	Ø	۵	¢	VH459893
d.	Participate in online discussions about United States history on a website (for example, in forums or social media)	0	®	Ø	Ø	¢	VH459894
e.	Use the Internet to look for evidence or sources (for example, text documents, photographic images, or films)	Ø	®	O	Ø	¢	VH459895

		Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me	
a.	I form opinions about historical events only after I have information from more than one source.	0	(6)	Q	Ø	¢	VH719829
b.	I need to know the history leading up to an event to truly understand it.	0	®	O	Ø	¢	VH719830
c.	I want to know what lies behind the story when I study a conflict in history.	(9	ß	Ø	Ø	Ē	VH719834
d.	I try to understand others better by imagining how things look from their perspective.	0	®	Ø	Ø	¢	VH719832
e.	I try to look at everybody's side of a disagreement before I make a decision.	(9)	6	O	Ø	Ē	VH719833
f.	I think that there is more than one side to every question, and I try to look at all of them.	0	®	O	Ø	¢	VH719831

8. How much does each of the following statements describe you? Select **one** answer choice on each row.

I definitely I probably I probably I definitely Maybe can't can't can can a. Explain the causes and effects of important VH460011 A B O D Ð events in United States history b. Explain how time periods in United Ø VH460016 B O D Đ States history are similar or different c. Judge whether information from a source (for example, VH460017 A B \odot \odot Ð text, visual graphics, video, or audio) is accurate d. Understand the relationship between VH460041 A B O \odot Ð two historical events e. Compare and evaluate different points of view about the past VH460042 A B \odot \bigcirc Ð (for example, different ideas about what caused the Civil War) f. Come up with research questions about why or how something happened VH460043 A B \odot \odot Ð in the past (for example, what were the causes of the Great Depression) g. Take and defend a position about a historical issue (for example, how changes VH460044 A B \bigcirc \bigcirc Ð in transportation have affected the United States economy)

9. Do you think that you would be able to do each of the following? Select **one** answer choice on each row.

	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me	
a. I want other students to think I am a good United States history student.	Ø	®	Ø	Φ	©	VH719844
b. I want to show others that my United States history schoolwork is easy for me.	Ø	®	Ø	Ø	¢	VH719847
c. I want to look smart in comparison to the other students in my social studies or United States history class.	Ø	®	Ø	Ø	¢	VH719845
d. I want to get better United States history grades than most other students in my class.	۵	®	©	Ø	Ē	VH719846

10. How much does each of the following statements describe you? Select **one** answer choice on each row.

11. How much does each of the following statements describe you? Select **one** answer choice on each row.

	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me	
a. I want to learn as much as possible about United States history in my class.	۵	ß	O	Ø	Ē	VH720608
b. I want to master a lot of new United States history skills in my class.	۵	6	Ø	Ø	¢	VH720609
c. I want to become a better United States history student this year.	۵	ß	Ø	Ø	¢	VH720611
d. I want to understand as much as I can abou United States history in my class.	.t 💿	®	Ø	Ø	¢	VH720612

VH719843

		Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me	
is or	ted States history ne of my favorite ects to study.	Ø	ß	Ø	Ø	Ē	VH718414
scho	joy doing oolwork about ted States history.	Ø	ß	Ø	0	¢	VH718419
Unit	joy discussing ted States history cs with others.	0	B	0	Ø	Ē	VH718417
State scho unde happ	ink that United es history polwork helps me erstand what is pening in the ld around me.	0	®	Q	Ø	¢	VH718418
abou histo	ink that learning ut United States ory topics will be ortant for my ure.	Ø	®	Q	Ø	¢	VH718416

12. How much does each of the following statements describe you? Select **one** answer choice on each row.

	Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	
a. Read books about history	Ø	®	0	0	Ē	VH718432
b. Watch movies, videos, or TV programs about history	æ	®	Ø	Ø	E	VH718433
c. Play video games about history	Ø	®	O	Ø	Ē	VH718434
d. Go to history museums or historical sites	æ	®	O	Ø	¢	VH718438
e. Do online research related to historical topics	Ø	®	Ø	Ø	Ē	VH718436
f. Talk to friends or family about historical topics	æ	®	O	Ø	Ē	VH718435

13. During this school year, how often do you do each of the following activities **outside of school**? Select **one** answer choice on each row.

VH457791

- **14.** How often do you receive help from a tutor, family member, or friend with social studies **outside of school or after school**?
 - Never
 - About once or twice a year
 - © About once or twice a month
 - About once or twice a week
 - © Every day or almost every day

15. Approximately how many hours a day do you spend on your **social studies** homework?

- (Less than 30 minutes a day
- [®] 30 minutes up to 1 hour a day
- © 1 up to 2 hours a day
- ① 2 up to 3 hours a day
- © 3 up to 4 hours a day
- (D) More than 4 hours a day

Appendix I-1r: 2018 Operational Grade 8 TEL

The following questions are about your views and experiences related to technology and engineering.

Technology refers to all the things people make and do to their natural environment in order to get the things they want and need.

Engineering refers to using skills or knowledge to solve problems that meet people's wants and needs.

Some questions ask for facts while other questions ask for your opinions. Read each question carefully, and pick the answer you think is best.

- (D) Industrial technology (for example, auto mechanics, carpentry)
- (Engineering (for example, robotics, bridge building, rocketry)
- © Any class that involves learning to use, program, or build computers
- D Any other technology-related class (for example, electronics, sewing, farming)
- © I have not taken any of the classes listed above.

- 2. Have you ever studied technology or engineering topics in any of the following classes or subjects in school? Select **one or more** squares.
 - Mathematics
 - Science
 - © Social studies or history
 - ◎ I have not studied technology or engineering in any of the classes or subjects listed above.

VE681624

3. In school, how often do you learn about or discuss the following? Select one circle in each row.

	Never	Rarely	Sometimes	Often	
a. How to judge reliability of sources (for example, how a website might be biased or inaccurate)	0	Θ	0	0	VE681629
b. How to credit others for their ideas (for example, citing sources, using endnotes and footnotes in reports)	Ø	®	Q	Ø	VE681632

VE639842

	Never or almost never	A few times a year	Once or twice a month	Once or twice a week	Every day or almost every day	
a. Create, edit, or organize digital media	Ø	ß	0	Ø	Ē	VE639130
b. Create a presentation	A	B	0	Θ	Ē	VE639137
c. Create a spreadsheet (a table or grid that displays data into columns and rows and may be used to create charts and graphs)	Ø	®	Q	Ø	¢	VE639136

4. For school work, how often do you use a computer or other digital technology for the following activities? Select one circle in each row.

VF025108

5. In this question, please think about activities you do that are not related to your school work. How often do you use a computer or other digital technology for the following activities **not for school work**? Select **one** circle in each row.

	Never or almost never	A few times a year	Once or twice a month	Once or twice a week	Every day or almost every day	
a. Create, edit, or organize digital media	Ø	B	0	0	Ē	VF025112
b. Create a presentation	A	B	0	Θ	Ē	VF025117
c. Create a spreadsheet (a table or grid that displays data into columns and rows and may be used to create charts and graphs)	۵	®	0	٩	¢	VF025116

VE639123

VE682225

- Rarely **Sometimes** Never Often a. Designing or creating something to solve a VE682228 A B © \odot problem b. Designing something when there is limited time, VE682229 Ø B © D
- **6. In school**, how often have you learned about or discussed the following? Select **one** circle in each row.

VE638956

7. In school, how often have you ever done the following activities? Select one circle in each row.

money, or materials

		Never	Once or twice	Three to five times	More than five times	
a.	Used different tools, materials, or machines to see which are best for a given purpose	Ø	Θ	Ø	Ø	VE638959
b.	Built or tested a model to see if it solves a problem	Ø	B	0	Ø	VE638963
c.	Figured out why something is not working in order to fix it	Ø	ഀ	Ø	Ø	VE682247
d.	Taken something apart in order to fix it or see how it works	۵	₿	Q	Ø	VE638965

VE638983

		Never	Once or twice	Three to five times	More than five times	
a.	Used tools or materials to plan or design something (for example, cake recipe, party)	Ø	®	Ø	Ø	VF009777
b.	Used different tools, materials, or machines to see which are best for a given purpose	Ø	٩	Ø	۵	VE638998
c.	Built or tested a model to see if it solves a problem	٨	®	O	Ø	VE639038
d.	Figured out why something is not working in order to fix it	۵	®	Q	Ø	VE682267
e.	Taken something apart in order to fix it or see how it works	۵	®	Q	Ø	VE639042

8. Outside of school, how often have you ever done the following activities? Select **one** circle in each row.

		I definitely can't	I probably can't	Maybe	I probably can	I definitely can	
a.	Create presentations with sound, pictures, or video	Ø	ම	Ø	Ø	Ē	VH008238
b.	Organize information into a chart, graph, or spreadsheet	8	Θ	0	0	Ē	VH008240
c.	Compare products using the Internet	Ø	₿	0	Θ	Ē	VH008241
d.	Use tools or materials to fix something	Ø	B	0	Ø	Ē	VH008243
e.	Take something apart in order to fix it or see how it works	Ø	B	0	Ø	Ē	VH008244
f.	Describe how inventions change society	8	₿	Q	Ø	Ē	VH008245
g.	Compare how different activities affect the environment	Ø	ß	Ø	Ø	Ē	VH008247
h.	Explain why people have different tools, machines, or devices in different parts of the world	Ø	₿	Q	Ø	¢	VH008248

9. Do you think that you would be able to do each of the following? Select **one** circle in each row.

	Never	Rarely	Sometimes	Often	
a. Inventions that change the way people live	Ø	B	O	Ø	VE639002
b. Choices people make that affect the environment	B	B	0	0	VE639004
c. Conditions that influence the use or availability of machines or devices	Ø	®	Ø	0	VE639005
d. The ways people work together to solve problems in their community or the world	۵	٩	0	Θ	VE682300

10. In school, how often have you learned about or discussed the following? Select one circle in each row.

VE639008

11. Outside of school, how often have you learned about or discussed the following? Select **one** circle in each row.

	Never	Rarely	Sometimes	Often	
a. Inventions that change the way people live	Ø	B	0	0	VE639012
b. Choices people make that affect the environment	Ø	®	0	Ø	VE639013
c. Conditions that influence the use or availability of machines or devices	Ø	®	Ø	Ø	VE639014
d. The ways people work together to solve problems in their community or the world	Ø	®	0	0	VE682314

VE638999

12. Who taught you most of what you know about building things, fixing things, or how things work?

- Family members
- © Friends
- Teachers
 Teachers
- © Someone else

VE682274

- **13.** Who taught you most of what you know about using computers or other digital technology for collecting or sharing information?
 - I taught myself.
 - Family members
 - © Friends
 - Teachers
 - © Someone else

- 14. Who taught you most of what you know about how technology, people, and the environment are related to each other?
 - I taught myself.
 - Family members
 - © Friends
 - Teachers
 Teachers
 - © Someone else

		Yes	No	
a. I had schoo	taken an interactive computer test in l.	Ø	®	VF009360
b. I had outsie	taken an interactive computer test de of school.	۵	®	VF009361

- **16.** How hard was this test compared to most other tests you have taken this year in school?
 - (Easier than other tests
 - (B) About as hard as other tests
 - © Harder than other tests
 - Much harder than other tests
- 17. How hard did you try on this test compared to how hard you tried on most other tests you have taken this year in school?
 - Not as hard as on other tests
 - About as hard as on other tests
 - © Harder than on other tests
 - Much harder than on other tests

VE401779

- **18.** How important was it to you to do well on this test?
 - Not very important
 - Somewhat important
 - © Important
 - Very important

VE401776

VE401773

VF009358

Appendix I-1s: Summary of Revisions 2018 Reading SBT Special Study Student Engagement Items

The table below summarizes the non-substantive changes made to the new items for the 2018 Reading SBT study engagement items since the last submission in Appendix F-1aa. The changes were made in collaboration with the subject matter consultant who worked on the development of these items were made to improve wording clarity and to phrase the questions in a way that would engage students.

	Submitted	Revision
Column	Very True	1 Very different from me
Headers	Somewhat True	2 A little different from me
	Not Very True	3 A little like me
	Not at All True	4 A lot like me
Items		
	For every reading assignment, I worked hard	I worked hard on all the [XXX] ¹ activities I just completed.
	I could understand the readings	I understood the [XXX] activities I just completed.
	Reading was not important to me	The [XXX] activities I just completed are not important to me.
	I could correctly answer questions about the readings	I was successful on the [XXX] activities I just finished.
	The reading materials were interesting	The [XXX] materials I just read were interesting to me.
	I did not try to complete most of	I did not put effort into the [XXX]
	the reading assignments	activities I just completed.
	I enjoyed reading	I enjoyed the [XXX] activities I just finished.
	The readings gave me useful knowledge	The [XXX] activities I just completed are very useful to me.
	I put a lot of effort into reading	I tried to do well on the [XXX] activities I just completed.
	The reading materials were way too hard for me	I was not good at the [XXX] activities I just finished.
	Studying the materials was beneficial to me	Activities like the ones I just completed on [XXX] are very helpful to me at school.
	Even if reading activities were difficult, I completed them	I made sure I finished every part of the [XXX] activities I just completed.
	NEW	In the future, I will be very good at activities like those I completed for [XXX].

¹ Note: Where [XXX] is indicated—The name of each block will appear in place of the [XXX]—e.g., "Space Junk activities", "Mango Street activities."

It was very important to me to	The [XXX] activities I just completed are
do my reading	important to me.
I could not relate to the readings	I did not enjoy the [XXX] activities I just completed.
It was fun to do the readings	The [XXX] activities I just completed were fun.

The items not listed above are selected from the 2017 Operational Grade 4 Core and 2017 Operational Grade 4 Reading questionnaires. No changes have been made to these items since they were submitted in Appendix F. Items 1-4 were selected from Appendix F-1a and items 5-6 were selected from Appendix F-1d.

Appendix I-1t: 2018 Reading SBT Special Study

The statements you will read next are about the reading activities you just finished.

Each statement tells how some students feel about reading. Read each statement and decide whether it describes a person who is like you or a person who is different from you. You will be asked to select one answer choice on each row.

Items		A little		
	Very different	different from		
	from me	me	A little like me	A lot like me
	1	2	3	4
I worked hard on all the [XXX] ⁱ activities I just completed.	1	2	3	4
I understood the [XXX] activities I just completed.	1	2	3	4
The [XXX] activities I just completed are not important to me.	1	2	3	4
I was successful on the [XXX] activities I just finished.	1	2	3	4
The [XXX] materials I just read were interesting to me.	1	2	3	4
I did not put effort into the [XXX] activities I just completed.	1	2	3	4
I enjoyed the [XXX] activities I just finished.	1	2	3	4
The [XXX] activities I just completed are very useful to me.	1	2	3	4
I tried to do well on the [XXX] activities I just completed.	1	2	3	4
I was not good at the [XXX] activities I just finished.	1	2	3	4
Activities like the ones I just completed on [XXX] are very helpful to me at school.	1	2	3	4
I made sure I finished every part of the [XXX] activities I just completed.	1	2	3	4
In the future, I will be very good at activities like those I completed for [XXX].	1	2	3	4
The [XXX] activities I just completed are important to me.	1	2	3	4
I did not enjoy the [XXX] activities I just completed.	1	2	3	4
The [XXX] activities I just completed were fun.	1	2	3	4

ⁱNote: Where [XXX] is indicated—The name of each block will appear in place of the [XXX]—e.g., "Space Junk activities", "Mango Street activities."

	Yes	No	
a. Access to the Internet	Ø	®	VH271105
b. Clothes dryer just for your family	Ø	®	VH336756
c. Dishwasher	Ø	®	VH336759
d. Your own bedroom	Ø	®	VH336762
e. A desktop or laptop computer (including Chromebooks) that you can use	®	®	VH591976
f. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	۲	6	VH271110
g. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	۵	(8)	VH271112

1. Do you have any of the following in your home? Select **one** answer choice on each row.

VH354591

VH271104

- 2. How often do you use the Internet for homework at home?
 - Never
 Never
 - (B) About once or twice a month
 - © About once or twice a week
 - Almost every day
 Almost every day
 - © Every day

- **3.** In this school year, how often did you use a **laptop or desktop computer** (including Chromebooks) during your classes at school?
 - Never
 - In some classes
 - © In about half of the classes
 - \bigcirc In more than half of the classes
 - © In all or almost all classes

- **4.** In this school year, how often did you use a **tablet** (for example, Surface Pro, iPad, Kindle Fire) during your classes at school?
 - Never
 - In some classes
 - © In about half of the classes
 - D In more than half of the classes
 - © In all or almost all classes

- VH588774
- **5.** For school this year, how often have you been asked to write long answers (several sentences or paragraphs) to questions on tests or assignments that involved reading?
 - Never
 Never
 - Once
 Once
 - © Two or three times
 - Four or five times
 - © More than five times

- 6. On a typical school day, how much time do you use a computer or other digital device to do your **English/language arts** schoolwork and homework?
 - (D) Less than 30 minutes
 - About 30 minutes
 - © About 1 hour
 - About 2 hours
 About 2 hours
 - © About 3 hours
 - © 4 or more hours

Appendix I-1u: 2018 Oral Reading Fluency Study

The Oral Reading Fluency items are the same as those submitted in Appendices F-1a, F-1d, and F-1ab

Q1: In this school year, how often have you read out loud - in school or at home, or anywhere?

- 1. Never or hardly ever
- 2. Sometimes
- 3. Often
- 4. All the time

(for Q2 and Q3) Tell us about the last time you read out loud.

Q2: Who did you read to? (Say all that apply.)

- 1. Myself
- 2. A family member
- 3. My Teacher
- 4. Someone else
- 5. I never read out loud.

Q3: Where were you? (Say all that apply.)

- 1. At home
- 2. At school
- 3. In the library
- 4. Somewhere else
- 5. I never read out loud.

Q4: How difficult was this reading-out-loud test?

- 1. Not at all difficult
- 2. A bit difficult
- 3. Quite difficult
- 4. Very difficult

- 1. How important was it to you to do well on this test?
 - Not very important
 - Somewhat important
 - © Important
 - D Very important
- 2. How easy or difficult was this test?
 - Extremely difficult
 - Quite difficult
 - © Somewhat difficult
 - Somewhat easy
 - Quite easy
 - © Extremely easy
- 3. How much effort did you apply to succeed on this test?
 - No effort at all
 - Wery little effort
 Output
 Description:
 Output
 Description:
 Descriptindescription:
 Descrindescriptindescription:
 Descriptind
 - © Some effort
 - O Quite a bit of effort
 - C A lot of effort

VH260313

- 4. How challenging was taking this test?
 - Not challenging at all
 - A little challenging
 - © Somewhat challenging
 - Quite challenging
 - © Extremely challenging

VH333660

- 5. How much time pressure did you feel when taking this test?
 - No time pressure at all
 - A little bit of time pressure
 - © Some time pressure
 - O Quite a bit of time pressure
 - © A lot of time pressure

- 6. Are you Hispanic or Latino? Select one or more answer choices.

 - (B) Yes, I am Mexican, Mexican American, or Chicano.
 - © Yes, I am Puerto Rican or Puerto Rican American.
 - D Yes, I am Cuban or Cuban American.
 - © Yes, I am from some other Hispanic or Latino background.

- 7. Which of the following best describes you? Select one or more answer choices.
 - ℬ White
 - Black or African American
 - © Asian
 - American Indian or Alaska Native
 - © Native Hawaiian or other Pacific Islander
- 8. About how many books are there in your home?
 - ᢙ Few (0−10)
 - (D) Enough to fill one shelf (11–25)
 - © Enough to fill one bookcase (26–100)
 - D Enough to fill several bookcases (more than 100)

- VH271104
- 9. Do you have any of the following in your home? Select **one** answer choice on each row.

		Yes	No	
a. <i>I</i>	Access to the Internet	A	®	VH271105
b. (Clothes dryer just for your family	A	®	VH336756
c. I	Dishwasher	A	®	VH336759
d. 1	Your own bedroom	A	®	VH336762
	A desktop or laptop computer (including Chromebooks) that you can use	0	®	VH591976
	A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	Ø	6	VH271110
5	A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	0	6	VH271112

- **10.** How often do you use the Internet for homework at home?
 - Never
 Never
 - (B) About once or twice a month
 - © About once or twice a week
 - Almost every day
 Almost every day
 - © Every day

- **11.** How many days were you absent from school in the last month?
 - None
 None
 - 1 or 2 days
 - © 3 or 4 days

 - More than 10 days

12. How often do you talk about things you have studied in school with someone in your family?

- Never or hardly ever
- [®] Once every few weeks
- About once a week
- ◎ Two or three times a week
- © Every day

VH271144

VH240189

13. Do any of the following people live in your home? Select **one** answer choice on each row.

	Yes	No	
a. Mother	۵	®	VH271145
b. Stepmother	۵	®	VH271146
c. Foster mother or other female legal guardian	۲	₿	VH271147
d. Father	۵	®	VH271148
e. Stepfather	۵	®	VH271149
f. Foster father or other male legal guardian	Ø	®	VH271150

- **14.** In this school year, how often did you use a **laptop or desktop computer** (including Chromebooks) during your classes at school?
 - Never
 Never
 - In some classes
 - © In about half of the classes
 - \odot In more than half of the classes
 - © In all or almost all classes

- Never
- In some classes
- © In about half of the classes
- $\ensuremath{\textcircled{}}$ $\ensuremath{\textcircled{}}$ In more than half of the classes
- © In all or almost all classes

- VH271337
- **16.** How much does each of the following statements describe a person like you? Select **one** answer choice on each row.

	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Very much like me	
a. I finish whatever I begin.	Ø	ß	O	Ø	Ē	VH271338
b. I try very hard even after making mistakes.	۵	®	O	Ø	Ē	VH271339
c. I keep working hard even when I feel like quitting.	Ø	ß	Ø	Ø	Ē	VH271342
d. I keep trying to improve myself, even when it takes a long time to get there.	Ø	ß	Ø	Ø	©	VH271345

	Never or hardly ever	Less than half of the time	About half of the time	More than half of the time	All or almost all of the time	
a. I started working on assignments right away rather than waiting until the last minute.	۵	®	Ø	Ø	C	VH271370
b. I paid attention and resisted distractions.	Ø	®	0	Ø	Ē	VH271372
c. I stayed on task without reminders from my teacher.	Ø	6	Ø	Ø	Ē	VH271374
d. I paid attention in class even when I was not interested.	Ø	®	O	©	Ē	VH271375

17. In this school year, how often have you done each of the following? Select **one** answer choice on each row.

18. How much does each of the following statements describe a person like you? Select **one** answer choice on each row.

		Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Very much like me	
a.	I like complex problems more than easy problems.	Ø	ß	O	0	Ē	VH271750
b.	I like activities that challenge my thinking abilities.	0	®	Ø	Ø	Ē	VH271752
c.	I enjoy situations where I will have to think about something.	0	®	Ø	Ø	¢	VH271753
d.	I enjoy thinking about new solutions to problems.	Ø	®	Ø	Ø	Ē	VH271756

19. In this school year, how often have you felt any of the following ways about your school? Select **one** answer choice on each row.

	Never or hardly ever	Less than half of the time	About half of the time	More than half of the time	All or almost all of the time	
a. I felt awkward and out of place at school.	۵	B	O	Ø	Ē	VH271942
b. I felt happy at school.	A	B	Ô	O	Ē	VH271944
c. I felt that I learned something that I can use in my daily life.	Ø	B	Ø	Ø	Ē	VH336903

VH332850

VH271934

20. How often does your teacher ask you to read a book you have chosen yourself?

- Never
 Never
- About once or twice a year
- © About once or twice a month
- About once or twice a week
- © Every day or almost every day

- 21. How often does your teacher ask you to discuss new or difficult vocabulary?
 - Never
 - (B) About once or twice a year
 - © About once or twice a month
 - About once or twice a week
 - © Every day or almost every day

- **22.** For school this year, how often do you work in pairs or small groups to talk about something that you have read?
 - Never
 - [®] About once or twice a year
 - © About once or twice a month
 - About once or twice a week
 - © Every day or almost every day

- **23.** For school this year, how often do you have a class discussion about something that the class has read?
 - Never
 Never
 - [®] About once or twice a year
 - © About once or twice a month
 - About once or twice a week
 - © Every day or almost every day

- **24.** For school this year, how often have you been asked to write long answers (several sentences or paragraphs) to questions on tests or assignments that involved reading?
 - Never
 Never
 - Once
 Once
 - © Two or three times
 - Four or five times
 - © More than five times

VH598672

- **25.** On a typical school day, how much time do you use a computer or other digital device to do your **English/language arts** schoolwork and homework?
 - (2) Less than 30 minutes
 - About 30 minutes
 About 30 minutes
 - © About 1 hour
 - D About 2 hours
 - About 3 hours
 About 3 hours
 - © 4 or more hours

- **26.** In this school year, how often do you borrow reading materials (such as books or magazines) from your school library or media center?
 - Never
 - [®] About once or twice a year
 - © About once or twice a month
 - About once or twice a week
 - © Every day or almost every day

		I definitely can't	I probably can't	Maybe	I probably can	I definitely can	
a.	Figure out the meaning of a word you don't know by using other words in the text	0	®	Ø	Ø	¢	VH260848
b.	Explain the meaning of something you have read	(9	6	0	Ø	Ē	VH260849
c.	Figure out the main idea of a text	A	B	O	Ø	Ē	VH260851
d.	Find text in a reading passage to help you answer a question on a test	0	®	Ø	Ø	¢	VH260859
e.	Recognize when you don't understand something you are reading	Ø	®	Ø	Ø	¢	VH260861
f.	Recognize the difference between fact and opinion in a text	8	®	©	©	Ē	VH260863

27. Do you think you would be able to do each of the following when reading? Select **one** answer choice on each row.

		Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me	
a.	I want other students to think I am good at reading.	Ø	®	Ø	Ø	Ē	VH260928
b.	I want to show others that my English/ language arts schoolwork is easy for me.	Ø	®	Ø	Ø	¢	VH260929
c.	I want to look smart in comparison to the other students in my English/language arts class.	Ø	®	Ø	Ø	¢	VH260930
d.	I want to learn as much as possible in my English/language arts class.	0	ß	Ø	Ø	¢	VH260931
e.	I want to become a better reader this year.	A	®	0	D	Ē	VH260934
f.	I want to understand as much as I can in my English/language arts class.	۵	®	O	©	Ē	VH260938

28. How much does each of the following statements describe a person like you? Select **one** answer choice on each row.

29. How much does each of the following statements describe a person like you? Select

VH589132

Not at all A little bit Somewhat Quite a bit **Exactly like** like me like me like me like me me a. Reading is one of my VH260271 Ø B O D Đ favorite activities. b. I like talking about books with other A VH260272 B O \odot Ð people. c. I think reading is A B \bigcirc \odot Ð VH260275 important. d. I enjoy going to a A B O \bigcirc Ð VH260277 bookstore or a library.

VH598686

30. Besides doing homework, how much time do you spend reading outside of school?

(D) Less than 30 minutes a day

one answer choice on each row.

- (B) About 30 minutes a day
- © About 1 hour a day
- About 2 hours a day
 About 2 hours a day
- © About 3 hours a day
- © 4 or more hours a day

VH332820

31. How often do you receive help from a tutor, family member, or friend with English/language arts **outside of school or after school**?

Never
 Never

- [®] About once or twice a year
- © About once or twice a month
- About once or twice a week
- © Every day or almost every day

		Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	
a.	Talk about books (print or online) with other people	Ø	ß	O	Ø	Ē	VH260907
b.	Go to my local library to borrow books (print or online)	(9)	B	Ø	0	E	VH260911
с.	Read blogs	A	®	Ô	Ø	Ē	VH260913
d.	Use social media (for example, Facebook, Twitter, Instagram)	Ø	ß	Ø	Ø	¢	VH333261
e.	Help friends with reading homework	A	B	O	Ø	Ē	VH260917

32. How often do you typically do each of the following things **outside of school**? Select **one** answer choice on each row.

Appendix I2: Teacher Questionnaires

Appendix I-2a: Summary of Revisions 2018 Grade 4 and 8 Core

	rades 4 and 8 Core Teacher rill be used at all grades unless otherwise specified.		
Previous item	2018 item	D/A/ R/NC+	Rationale
1. What is your sex?	1. What is your sex?	NC	
Male Male	Male Male		
D Female	D Female		
(2018 Pilot Teacher and School Gender Item)	Issue: Gender		
2. Are you Hispanic or Latino? Select all squares that apply.	2. Are you Hispanic or Latino? Select all squares that apply.	NC	
No, I am not Hispanic or Latino.	No, I am not Hispanic or Latino.		
D Yes, I am Mexican, Mexican American, or Chicano.	D Yes, I am Mexican, Mexican American, or Chicano.		
O Yes, I am Puerto Rican or Puerto Rican American.	© Yes, I am Puerto Rican or Puerto Rican American.		
1 Yes, I am Cuban or Cuban American.	D Yes, I am Cuban or Cuban American.		
© Yes, I am from some other Hispanic or Latino background.	© Yes, I am from some other Hispanic or Latino background.		
(2017 Operational Grades 4 and 8)	Issue: Race/Ethnicity		
3. Which of the following best describes you? Select all squares that apply.	3. Which of the following best describes you? Select all squares that apply.	NC	
(D) White	(D) White		
D Black or African American	D Black or African American		
© Asian	© Asian		
D American Indian or Alaska Native	D American Indian or Alaska Native		
D Native Hawaiian or other Pacific Islander	D Native Hawaiian or other Pacific Islander		
(2017 Operational Grades 4 and 8)	Issue: Race/Ethnicity		
4. Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?	4. Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?	NC	
Less than 1 year	D Less than 1 year		
D 1-2 years	D 1-2 years		
© 3-5 years	© 3-5 years		
© 6–10 years	© 6–10 years		
© 11-20 years	© 11-20 years		
D 21 or more years	© 21 or more years		
(2017 Operational Grades 4 and 8)	Issue: Teacher Preparation		

Items will be used at all grades unless otherwise specified.							
Previous item	2018 item	D/A/ R/NC+	Rationale				
5. Have you been awarded tenure by the school, district, or diocese where you currently teach?	5. Have you been awarded tenure by the school, district, or diocese where you currently teach?	NC					
Tes Yes	⊗ Yes						
^(D) No	No						
© My school, district, or diocese does not award tenure.	My school, district, or diocese does not award tenure.						
(2017 Pilot Grade 8 Core, Reading Mathematics- All Subjects)	Issue: Teacher Preparation						
5. Excluding student teaching, how many years have you taught civics, geography, history, or social studies in grades 6 through 12, counting this year?	5. Excluding student teaching, how many years have you taught civics, geography, history, or social studies in grades 6 through 12, counting this year?	NC					
Less than 1 year	Less than 1 year						
⊕ 1−2 years ■	D 1-2 years						
© 3-5 years	© 3-5 years						
© 6-10 years	© 6-10 years						
© 11-20 years	© 11-20 years						
© 21 or more years	© 21 or more years						
(2018 Pilot Grade 8)	Issue: Teacher Preparation						
5. Excluding student teaching, how many years have you taught science in grades 6 through 12, counting this year?	5. Excluding student teaching, how many years have you taught science in grades 6 through 12, counting this year?	NC					
The set of	D Less than 1 year						
D 1-2 years	𝔁 1−2 years						
© 3-5 years	© 3-5 years						
© 6–10 years	© 6-10 years						
© 11-20 years	© 11-20 years						
© 21 or more years	© 21 or more years						
(2015 Operational Grade 8)	Issue: Teacher Preparation						
6. Do you hold a regular or standard certificate that is valid in the state in which you are currently teaching?	6. Do you hold a regular or standard certificate that is valid in the state in which you are currently teaching?	NC					
Yes, I hold a permanent certificate.	Derived Yes, I hold a permanent certificate.						
D Yes, I hold a temporary certificate. (This type of certificate may require additional coursework, student teaching, etc.)	Yes, I hold a temporary certificate. (This type of certificate may require additional coursework, student teaching, etc.)						
© No, but I am currently working toward certification.	 No, but I am currently working toward certification. 						
C No, but Fain currently working toward certification.							
 No, and I am not planning to obtain certification. 	No, and I am not planning to obtain certification.						

	rades 4 and 8 Core Teacher vill be used at all grades unless otherwise specified.		
Previous item	2018 item	D/A/ R/NC+	Rationale
 7. Did you enter teaching through an alternative route to certification program? (An alternative route to certification program is a program that was designed to expedite the transition of non-teachers to a teaching career, for example, a state, district, or university alternative route to certification program.) ② Yes ③ No (2017 Operational Grades 4 and 8)	 7. Did you enter teaching through an alternative route to certification program? (An alternative route to certification program is a program that was designed to expedite the transition of non-teachers to a teaching career, for example, a state, district, or university alternative route to certification program.) ③ Yes ④ No 	NC	
 8. Are you certified by the National Board for Professional Teaching Standards in at least one content area? (The National Board for Professional Teaching Standards is a nongovernmental organization that administers National Board certification, a voluntary national assessment program that certifies teachers who meet high professional standards. In order to gain certification, the candidate must at least complete a portfolio of classroom practice and pass one or more tests of content knowledge.) (D) Yes, I am fully certified by the National Board for Professional Teaching Standards. (D) I am working towards my National Board certification. (D) No 	 8. Are you certified by the National Board for Professional Teaching Standards in at least one content area? (The National Board for Professional Teaching Standards is a nongovernmental organization that administers National Board certification, a voluntary national assessment program that certifies teachers who meet high professional standards. In order to gain certification, the candidate must at least complete a portfolio of classroom practice and pass one or more tests of content knowledge.) (D) Yes, I am fully certified by the National Board for Professional Teaching Standards. (D) I am working towards my National Board certification. (D) No 	NC	
 9. What is the highest academic degree you hold? High school diploma Associate's degree/vocational certification Bachelor's degree Master's degree Education specialist's or professional diploma based on at least one year's work past master's degree Doctorate Professional degree (e.g., M.D., LL.B., J.D., D.D.S.) (2017 Operational Grades 4 and 8) 	 9. What is the highest academic degree you hold? High school diploma Associate's degree/vocational certification Bachelor's degree Master's degree Education specialist's or professional diploma based on at least one year's work past master's degree Doctorate Professional degree (e.g., M.D., LL.B., J.D., D.D.S.) Issue: Teacher Preparation 	NC	

I1. Did you have a major, minor, or special emphasis in any of the following subjects as part of your undergraduate coursework? Select one circle in each row. I1. Did you have a major, minor, or special emphasis in any of the following subjects as part of your undergraduate coursework? Select one circle in each row. NO 	
Tes, a majorspecial emphasisNOTes, a majorspecial emphasisNOa. History or history education Φ Φ Φ Φ Φ Φ b. Geography or geography education Φ Φ Φ Φ Φ Φ c. Political science Φ Φ Φ Φ Φ Φ d. General social science or social studies education Φ Φ Φ Φ Φ e. Other social science (for example, education Φ Φ Φ Φ Φ f. Elementary or secondary education Φ Φ Φ Φ Φ g. Special education (including students with disabilities) Φ Φ Φ Φ	
b. Geography or geography education Image: Constraint of the social science or social studies education Image: Constraint of the social science or social studies education Image: Constraint of the social science or social studies education Image: Constraint of the social science or social studies education Image: Constraint of the social science or social studies education Image: Constraint of the social science or social studies education Image: Constraint of the social science or social studies education Image: Constraint of the social science or social studies education Image: Constraint of the social science or social studies education Image: Constraint of the social science or social studies education Image: Constraint of the social science or social studies education Image: Constraint of the social science or social studies education Image: Constraint of the social science or social studies education Image: Constraint of the social science or social studies education Image: Constraint of the social science or social studies education Image: Constraint of the social science or social studies education Image: Constraint of the social science or social studies education Image: Constraint of the social science or social studies education Image: Constraint of the social science or social studies education Image: Constraint of the social science or social studies education Image: Constraint of the social science or social studies education Image: Constraint of the social science or social studies education Image: Constraint of the social science or social studies education Image: Consocial science or social science or social sc	
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education Image: Constraint of the system Image: Constrais of the system Image: Constraint of the sy	
g. Special education (including students with disabilities) Φ Φ Φ Φ	
Yes, a major Yes, a minor or special emphasis No Yes, a major Yes, a major No	sub-items are
a. Biology or other life science 🛛 🖉 🗇 💿 a. Biology or other life science 🖉 🖉 💿	shown given t
b. Physics, chemistry, or other physical science \odot \odot \odot b . Physics, chemistry, or other physical science \odot \odot \odot	Science is the only subject ir
c. Earth or space science 💿 💿 💿 c. Earth or space science 💿 💿 💿	the field in 20
d. Mathematics or mathematics education \odot	
e. Science education (\$\overline{O}\$) (\$	
	unlike 2015
f. Engineering or engineering education D D Engineering or engineering education D D	unlike 2015 where Reading
f. Engineering or engineering	unlike 2015 where Readin Mathematics,
f. Engineering or engineering education Image: Comparison of the second of the sec	unlike 2015 where Reading

Previous item				2018 item				D/A/ R/NC+	Rationale
 Did you have a major, minor, or sp part of your graduate coursework? 	pecial emphasis in ? Select one circle	n any of the following s in each row.	subjects as	 Did you have a major, minor, or sp part of your graduate coursework? 	pecial emphasis in Select one circle	any of the following su in each row.	bjects as	NC	
	Yes, a major	Yes, a minor or special emphasis	No		Yes, a major	Yes, a minor or special emphasis	No		
a. History or history education	8	Φ	Q	a. History or history education	0	Φ	Q		
 Geography or geography education 	Θ	Φ	Ø	 Geography or geography education 	۲	Ð	Ø		
c. Political science	8	Ð	0	c. Political science	8	Ð	0		
 General social science or social studies education 	0	æ	ø	d. General social science or social studies education	0	æ	Ø		
 Other social science (for example, economics, sociology, psychology, anthropology) 	0	θ	Ø	 e. Other social science (for example, economics, sociology, psychology, anthropology) 	0	θ	Ø		
f. Elementary or secondary education	Θ	Φ	Ø	f. Elementary or secondary education	0	Φ	Ø		
g. Special education (including	1.			g. Special education (including		Φ	-		
students with disabilities)	0	œ	Ô	students with disabilities)	0	ω	Q		
students with disabilities) h. English language learning 2018 Pilot Grade 8)	٢	Φ	۵	students with disabilities) h. English language learning Issue: Teacher Preparatic	ø	Φ	Ø	NC	For Grade 4 or
	© pecial emphasis ir Select one circle	D any of the following s in each row.	© subjects as	students with disabilities) h. English language learning	© n special emphasis Select one circl	The following of the fo	© subjects as	NC	Science related
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students with disabilities) h. English language learning 2018 Pilot Grade 8) 12. Did you have a major, minor, or sp part of your graduate coursework? a. Biology or other life science	© pecial emphasis ir Select one circle	D any of the following s in each row.	© subjects as	students with disabilities) h. English language learning Issue: Teacher Preparatic 12. Did you have a major, minor, or part of your graduate coursework a. Biology or other life science	© n special emphasis Select one circl	The following of the fo	© subjects as	NC	Science related sub-items are shown given the
a. Biology or other life science b. Physics, chemistry, or other physical science b. Physics, chemistry, or other physical science b. Physical sc	© pecial emphasis ir Select one circle Yes, a major © ©	D n any of the following s in each row. Yes, a minor or special emphasis D D	© subjects as No ©	students with disabilities) h. English language learning Issue: Teacher Preparatic 12. Did you have a major, minor, or part of your graduate coursework	© n special emphasis 3 Select one circl Yes, a major	D in any of the following e in each row. Yes, a minor or special emphasis	© subjects as No	NC	Science related sub-items are shown given the Science is the
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Previous item				2018 item			D/A/ R/NC+	Rationale
 During the last two years, did you professional development activiti history, or social studies? Select o 	es related to the te	eaching of civics, geo	ving graphy,	 During the last two years, did you participate professional development activities related to history, or social studies? Select one circle in 	o the teaching of civics	ollowing s, geography,	NC	
		Yes	No		Yes	No		
 College course taken after your firs certification 	t	۵	Φ	a. College course taken after your first certification	Ø	Φ		
b. Workshop or training session	1.	•	0	b. Workshop or training session	۵	Ð		
Mentoring and/or peer observation coaching as part of a formal arrange	and	0	Ð	c. Mentoring and/or peer observation and coaching as part of a formal arrangement	0	Ð		
d. Co-teaching/team teaching		0	Ð	d. Co-teaching/team teaching	۲	¢		
development activities related to		1		development activities related to the teaching	of science? Select one Yes	circle in each row. No		j, and I were removed to
	Yes, I have participated.	Yes, I have led.	No		Yes	No		
a. College course taken after your	0	Ð	Q	a. College course taken after your first certification	Ø	Φ		ensure
first certification			a contraction of the second	b. Workshop or training session	0	Φ		consistency with
 b. Workshop or training session c. Conference or professional 	Ø	Ø	©	 Mentoring and/or peer observation and coaching as part of a formal arrangement 	0	Ð		2017 Core
association meeting	۲	D.	Ø	d. Co-teaching/team teaching	0	Φ		development.
 Observational visit to another school 	0	œ	Ø					
 Mentoring and/or peer observation and coaching as part of a formal arrangement 	۲	æ	0	Issue: Teacher Preparation				
f. Committee or task force focusing on curriculum, instruction, or student assessment	۵	Φ	0					
 Regularly scheduled discussion or study group 	Ø	æ	0					
h. Teacher collaborative or network (such as one organized by an	Ø	¢D	9					
outside agency or over the Internet)	00	Ø	Q	[]				
outside agency or over the Internet) i. Individual or collaborative research		Ð	0					
outside agency or over the Internet) i. Individual or collaborative	۵	· · · · · · · · · · · ·					1	
outside agency or over the Internet) i. Individual or collaborative research j. Independent reading on a regular basis (for example, educational	Ø	¢D.	Q	-				

Previous item 2018 item								D/A/	Rationale
Previous item				2018 item				D/A/ R/NC+	Rationale
14. During the last two years, have y following areas? Select one circle		g from any source in a	any of the	14. During the last two years, have you received training from any source in any of the following areas? Select one circle in each row.				NC	
	No, I am already proficient.	No, I have not.	Yes	· · · · · · · · · · · · · · · · · · ·	No, I am already proficient.	No, I have not.	Yes		
a. Basic computer training	0	Ð	©	a. Basic computer training	Ø	Ð	Ø		
b. Software applications	0	Ð	O	b. Software applications	٩	Ð	Ô		
c. Use of the Internet	Ø	Φ	©	c. Use of the Internet	Ø	Ð	Ø		
 d. Use of other technology—for example, satellite access, wireless Web, interactive video, closed-circuit television, videoconferencing 	Ø	Ø	©	 d. Use of other technology—for example, satellite access, wireless Web, interactive video, closed-circuit television, videoconferencing 	Ø	Φ	Q		
 e. Integration of computers and other technology into classroom instruction 	۵	Φ	©	e. Integration of computers and other technology into classroom instruction	٩	Φ	Ø		
(2017 Operational Grade	s 4 and 8)			Issue: Teacher Preparation	ı				
 15. In this school year, did your computers or other digital d Ø Yes, to all teachers Ø Yes, to some teachers 		ning for teachers o	on how to use	 15. In this school year, did your computers or other digital de Yes, to all teachers 		ning for teachers o	n how to use	NC	
D Tes, to some teachers									
© No				© No					
(2017 Operational Grade	s 4 and 8)			Issue: Technology Use					
16. In this school year, have you p devices through your school?	participated in tra	ining on computer	s or other digital	16. In this school year, have you p devices through your school?	articipated in tra	ining on computer	s or other digital	NC	
Ø No				Ø No					
D Once				D Once					
© Twice				© Twice					
D Several times				D Several times					
(2017 Operational Grade	s 4 and 8)			Issue: Technology Use					
17. In this school year, did your sc Chromebooks) to use for teach			uter (including	 In this school year, did your sch Chromebooks) to use for teaching 			uter (including	NC	
Yes, and I can take it home				③ Yes, and I can take it home.					
Yes, but I cannot take it ho				 Tes, and I can take it home. Yes, but I cannot take it home. 					
© No				© No	inc.				
(2017 Operational Grade				Issue: Technology Use					

Items w	ill be used at all grades unless otherwise specified.	Items will be used at all grades unless otherwise specified.							
Previous item	2018 item	D/A/ R/NC+	Rationale						
18. In this school year, did your school provide you with a tablet (for example, Surface Pro, iPad, Kindle Fire) to use for teaching and class preparation?	18. In this school year, did your school provide you with a tablet (for example, Surface Pro, iPad, Kindle Fire) to use for teaching and class preparation?	NC							
Yes, and I can take it home.	Yes, and I can take it home.								
Yes, but I cannot take it home.	D Yes, but I cannot take it home.								
© No	© No								
(2017 Operational Grades 4 and 8)	Issue: Technology Use								
19. In this school year, which of the following types of computers or other digital devices are available in your school for student use? Select all squares that apply.	19. In this school year, which of the following types of computers or other digital devices are available in your school for student use? Select all squares that apply.	NC							
Desktop computers	Desktop computers								
Laptop computers (including Chromebooks)	Laptop computers (including Chromebooks)								
© Tablets (for example, Surface Pro, iPad, Kindle Fire)	© Tablets (for example, Surface Pro, iPad, Kindle Fire)								
Other digital devices (Please specify):	D Other digital devices (Please specify):								
(2017 Operational Grades 4 and 8)	Issue: Technology Use								
20. How well do the desktop computers in your school work?	20. How well do the desktop computers in your school work?	NC							
All computers are functional and operate quickly.	All computers are functional and operate quickly.								
© All computers are functional, but all or almost all run slowly.	© All computers are functional, but all or almost all run slowly.								
Some of the computers do not operate and cannot be used.	D Some of the computers do not operate and cannot be used.								
© I don't know.	© I don't know.								
(2017 Operational Grades 4 and 8)	Issue: Technology Use								
21. How well do the laptop computers (including Chromebooks) in your school work?	21. How well do the laptop computers (including Chromebooks) in your school work?	NC							
 All computers are functional and operate quickly. 	All computers are functional and operate quickly.								
© All computers are functional, but all or almost all run slowly.	© All computers are functional, but all or almost all run slowly.								
D Some of the computers do not operate and cannot be used.	D Some of the computers do not operate and cannot be used.								
D I don't know.	© I don't know.								
(2017 Operational Grades 4 and 8)	Issue: Technology Use								

Previous item						2018 item				D/A/ R/NC+	Rational		
22. How well do the table work?	ets (for exai	mple, Surface	Pro, iPad, Ki	ndle Fire) in	your school	22. How well do the tablets (for example, Surface Pro, iPad, Kindle Fire) in your school work?				our school	NC		
All tablets are fun All tablets are fun All tablets are fun tablets tablet	ictional and	l operate quic	kly.			All tablets are function All tablets All tablets	tional and	operate quickl	y.				
All tablets are functional, but some run more slowly than others.				All tablets are func All tablets are func	tional, but	some run mor	e slowly than	n others.					
© All tablets are functional, but all or almost all run slowly.					tional, but	all or almost a	ill run slowly						
Some of the table	ts do not op	erate and can	not be used.				do not op	erate and canno	ot be used.				
© I don't know.						© I don't know.							
(2017 Operational	Grades	4 and 8)				Issue : Technology l	Jse						
23. How often do you do t	w often do you do the following in this school? Select one circle in each row. 23. How often do you do the following in this school? Select one circle in each row.						NC						
	Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day		Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day		
a. Teach jointly as a team in the same class	0	Ð	0	۵	Φ	 a. Teach jointly as a team in the same class 	0	æ	0	0	Ð		
 Observe other teachers' classes and provide feedback 	0	Ð	Ø	Ø	Ð	 b. Observe other teachers' classes and provide feedback 	0	œ	Q	0	Φ		
c. Engage in discussions about the learning development of specific students	۵	œ	Q	۵	Ð	c. Engage in discussions about the learning development of specific students	0	9	0	٩	Φ		
d. Work with other teachers in my school to ensure common standards in evaluations for assessing student progress	۵	Ð	Q	Ø	Φ	d. Work with other teachers in my school to ensure common standards in evaluations for assessing student progress	۵	œ	0	۵	θ		

Previous item			2018 item						D/A/ R/NC+	Rationale			
24. In your school, how seve	re is each prob	lem? Select	one circle in	each row.	A sector of	24. In your school, how sev	ere is each pro	blem? Selec	ct one circle i	n each row.	1. C	NC	
	Not a proble			loderate problem	Serious problem		Not a prob		Vinor oblem	Moderate	Serious problem		
 The school building needs significant repair. 	۵	(D	©	Ø	 The school building need significant repair. 	s Ø		Φ	©	0		
b. Classrooms are overcrowded.	۵	c	Ð	Ø	Φ	b. Classrooms are overcrowded.	۵		Ð	Ø	Ø		
c. Teachers have too many teaching hours.	۲	0	Ð	0	Φ	c. Teachers have too many teaching hours.	۲		Φ	ø	Ø		
d. Teachers do not have adequate workspace (e.g., for preparation, collaboration, or meeting with students).	۵		Ð	Ø	Ø	 d. Teachers do not have adequate workspace (e.g. for preparation, collaboration, or meeting with students). 	0		Ð	0	Θ		
 Teachers do not have adequate instructional 		- 18 A - 19											
materials and supplies. (2017 Operational (25. How much does each of circle in each row.	the following s	and 8)	₽ pply to you as Somewhat like me	© a teacher? Se Quite a bit like me	© elect one Exactly like me	e. Teachers do not have adequate instructional materials and supplies. Issue: School Clima 25. How much does each of circle in each row.	the following st	tatements an A little bit like me	D pply to you as a Somewhat like me		© ect one Exactly like me	NC	
2017 Operational (25. How much does each of circle in each row.	Grades 4 a the following st Not at all like me	and 8) tatements a A little bit like me	pply to you as Somewhat like me	a teacher? Se Quite a bit like me	Exactly like me	adequate instructional materials and supplies. Issue: School Clima 25. How much does each of circle in each row. a. 1 am satisfied with	te the following st Not at all like me	A little bit like me	pply to you as a Somewhat like me	i teacher? Sele Quite a bit like me	ect one Exactly like me	NC	
2017 Operational (25. How much does each of circle in each row. a. 1 am satisfied with being a teacher at this school.	Grades 4 a the following so Not at all like me	and 8) tatements a little bit like me	pply to you as Somewhat like me	a teacher? Se Quite a bit like me	Exactly like me	adequate instructional materials and supplies. Issue: School Clima 25. How much does each of circle in each row. a. 1 am satisfied with being a teacher at this school.	te the following st Not at all like me	A little bit like me	pply to you as a Somewhat like me	a teacher? Sele Quite a bit like me	ect one Exactly like me	NC	
2017 Operational (25. How much does each of circle in each row. a. I am satisfied with being a teacher at this school. b. My work inspires me.	Grades 4 a the following st Not at all like me	and 8) tatements a A little bit like me	pply to you as Somewhat like me	a teacher? Se Quite a bit like me	Exactly like me D	adequate instructional materials and supplies. Issue: School Clima 25. How much does each of circle in each row. a. I am satisfied with being a teacher at this school. b. My work inspires me.	te the following st Not at all like me	A little bit like me	pply to you as a Somewhat like me	i teacher? Sele Quite a bit like me	ect one Exactly like me	NC	
2017 Operational (25. How much does each of circle in each row. a. I am satisfied with being a teacher at this school. b. My work inspires me. c. I am frustrated as a teacher at my school.	Grades 4 a the following so Not at all like me	and 8) tatements a little bit like me	pply to you as Somewhat like me	a teacher? Se Quite a bit like me	Exactly like me	adequate instructional materials and supplies. Issue: School Clima 25. How much does each of circle in each row. a. 1 am satisfied with being a teacher at this school. b. My work inspires me. c. I am frustrated as a teacher at my school.	te the following st Not at all like me	A little bit like me	pply to you as a Somewhat like me	a teacher? Sele Quite a bit like me	ect one Exactly like me	NC	
2017 Operational (25. How much does each of circle in each row. a. I am satisfied with being a teacher at this school. b. My work inspires me. c. I am frustrated as a	Grades 4 a the following st Not at all like me ©	and 8) tatements a likte bit like me D	pply to you as Somewhat like me ©	a teacher? Se Quite a bit like me ©	Exactly like me D	adequate instructional materials and supplies. Issue: School Clima 25. How much does each of circle in each row. a. I am satisfied with being a teacher at this school. b. My work inspires me. c. I am frustrated as a	te the following st like me © ©	A little bit like me D	pply to you as a Somewhat like me ©	a teacher? Sele Quite a bit like me © ©	ect one Exactly like me D D	NC	
2017 Operational (25. How much does each of circle in each row. a. I am satisfied with being a teacher at this school. b. My work inspires me. c. I am frustrated as a teacher at my school. d. I am supported by the	Grades 4 a the following st like me A	and 8) tatements a like me	pply to you as Somewhat like me © ©	a teacher? Se Quite a bit like me © ©	Exactly like me D D	adequate instructional materials and supplies. Issue: School Clima 25. How much does each of circle in each row. a. 1 am satisfied with being a teacher at this school. b. My work inspires me. c. 1 am frustrated as a teacher at my school. d. 1 am supported by the	te the following st like me	A little bit like me D D D	Somewhat like me © © ©	uiteacher? Sele Quite a bit like me © ©	Exactly like me D D D	NC	
2017 Operational (25. How much does each of circle in each row. a. I am satisfied with being a teacher at this school. b. My work inspires me. c. I am frustrated as a teacher at my school. d. I am supported by the teachers at my school.	Grades 4 a the following st like me a a a a a a a a a a a a a a a a a a a	and 8) tatements a little bit like me	pply to you as Somewhat like me © © © ©	a teacher? Se Quite a bit like me © © © 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Exactly like me D D D D D D D D D D D	adequate instructional materials and supplies. Issue: School Clima 25. How much does each of circle in each row. a. I am satisfied with being a teacher at this school. b. My work inspires me. c. I am frustrated as a teacher at my school. d. I am supported by the teachers at my school.	te Not at all like me	A little bit like me	pply to you as a Somewhat like me © © © © © may depend o re easier for yo	a teacher? Sele Quite a bit like me © © © © on a lot of diff our students	Exactly like me D D D D ferent to change	NC	
2017 Operational (25. How much does each of circle in each row. a. I am satisfied with being a teacher at this school. b. My work inspires me. c. I am frustrated as a teacher at my school. d. I am supported by the teachers at my school. 2017 Operational (26. Whether a student does things. You may feel th than others. In school, I following? Select one ci	Grades 4 a the following st like me	and 8) tatements a little bit like me	pply to you as Somewhat like me © © © ©	a teacher? Se Quite a bit like me © © © 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Exactly like me D D D D D D D D D D D	adequate instructional materials and supplies. Issue: School Clima 25. How much does each of circle in each row. a. 1 am satisfied with being a teacher at this school. b. My work inspires me. c. 1 am frustrated as a teacher at my school. d. 1 am supported by the teachers at my school. Issue: School Clima 26. Whether a student do things. You may feel t than others. In school	te Not at all like me	A little bit like me	pply to you as a Somewhat like me © © © © may depend of re easier for yo r students to of Somewhat	a teacher? Sele Quite a bit like me (0) (0) (0) (0) (0) (0) (0) (0) (0) (0)	ect one Exactly like me D D D ferent to change of the Completely		
2017 Operational (25. How much does each of circle in each row. a. I am satisfied with being a teacher at this school. b. My work inspires me. c. I am frustrated as a teacher at my school. d. I am supported by the teachers at my school. (2017 Operational (26. Whether a student does things. You may feel th than others. In school, I following? Select one ci a. Being intelligent	Grades 4 a the following st like me	and 8) tatements a little bit like me	pply to you as Somewhat like me © © © © ay depend on easier for you students to ch Somewhat possible to	a teacher? Se Quite a bit like me	Exactly like me D D D D Completely possible to	adequate instructional materials and supplies. Issue: School Clima 25. How much does each of circle in each row. a. 1 am satisfied with being a teacher at this school. b. My work inspires me. c. 1 am frustrated as a teacher at my school. d. 1 am supported by the teachers at my school. Issue: School Clima 26. Whether a student do things. You may feel t than others. In school	te Not at all like me	A little bit like me	pply to you as a Somewhat like me © © © © may depend o re easier for your r students to o	a teacher? Sele Quite a bit like me D D D D D D D D D D D D D D D D D D D	ect one Exactly like me D D D C ferent to change of the Completely possible to		
2017 Operational (25. How much does each of circle in each row. a. 1 am satisfied with being a teacher at this school. b. My work inspires me. c. I am frustrated as a teacher at my school. d. I am supported by the teachers at my school. 2017 Operational (26. Whether a student does things. You may feel th than others. In school, following? Select one ci	Grades 4 a the following st Not at all like me	and 8) tatements a little bit like me	pply to you as Somewhat like me © © © © may depend on easier for you students to ch Somewhat possible to change	a teacher? Se Quite a bit like me	Exactly like me D D D D D D D D D D D D D D D D D D	adequate instructional materials and supplies. Issue: School Clima 25. How much does each of circle in each row. a. I am satisfied with being a teacher at this school. b. My work inspires me. c. I am frustrated as a teacher at my school. d. I am supported by the teachers at my school. Issue: School Clima 26. Whether a student do things. You may feel t than others. In school following? Select one	te Not at all like me A A A A A A A A A A A A A	A little bit like me	pply to you as a Somewhat like me © © © © may depend of re easier for your r students to of Somewhat possible to change	a teacher? Sele Quite a bit like me	ect one Exactly like me D D D D ferent to change of the Completely possible to change		

Appendix I-2b: 2018 Operational Grade 8 Core (BET-Social Studies)

- 1. What is your sex?
 - Male
 Male
 - Female
 Female
 A

2. Are you Hispanic or Latino? Select **all** squares that apply.

- No, I am not Hispanic or Latino.
- (Yes, I am Mexican, Mexican American, or Chicano.
- © Yes, I am Puerto Rican or Puerto Rican American.
- D Yes, I am Cuban or Cuban American.
- © Yes, I am from some other Hispanic or Latino background.

- 3. Which of the following best describes you? Select all squares that apply.
 - White
 White
 - Black or African American
 - © Asian
 - American Indian or Alaska Native
 - © Native Hawaiian or other Pacific Islander

VH712259

VH240385

4. Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?

- Less than 1 year
- 1–2 years
- \odot 3–5 years
- © 11–20 years
- © 21 or more years

- **5.** Excluding student teaching, how many years have you taught civics, geography, history, or social studies in grades 6 through 12, counting this year?
 - Less than 1 year
 - 1–2 years
 - © 3–5 years

 - © 11–20 years
 - © 21 or more years

- **6.** Have you been awarded tenure by the school, district, or diocese where you currently teach?
 - Yes
 Yes
 - B No
 - © My school, district, or diocese does not award tenure.

- ℬ Yes, I hold a permanent certificate.
- (1) Yes, I hold a temporary certificate. (This type of certificate may require additional coursework, student teaching, etc.)
- © No, but I am currently working toward certification.
- No, and I am not planning to obtain certification.
- 8. Did you enter teaching through an alternative route to certification program?

(An alternative route to certification program is a program that was designed to expedite the transition of non-teachers to a teaching career, for example, a state, district, or university alternative route to certification program.)

Yes
 Yes

B No
 No

VH240198

9. Are you certified by the National Board for Professional Teaching Standards in at least one content area?

(The National Board for Professional Teaching Standards is a nongovernmental organization that administers National Board certification, a voluntary national assessment program that certifies teachers who meet high professional standards. In order to gain certification, the candidate must at least complete a portfolio of classroom practice and pass one or more tests of content knowledge.)

- Tes, I am fully certified by the National Board for Professional Teaching Standards.
- (B) I am working towards my National Board certification.
- © No

- **10.** What is the highest academic degree you hold?
 - High school diploma
 High schol diploma
 High schol diploma
 High schol diploma
 H
 - (B) Associate's degree/vocational certification
 - © Bachelor's degree
 - Master's degree
 - C Education specialist's or professional diploma based on at least one year's work past master's degree
 - © Doctorate
 - © Professional degree (e.g., M.D., LL.B., J.D., D.D.S.)

	Yes, a major	Yes, a minor or special emphasis	No	
a. History or history education	Ø	®	0	VH614158
b. Geography or geography education	Ø	®	O	VH614159
c. Political science	Ø	®	O	VH614160
d. General social science or social studies education	æ	®	©	VH614162
e. Other social science (for example, economics, sociology, psychology, anthropology)	®	®	©	VH614164
f. Elementary or secondary education	æ	®	©	VH241767
g. Special education (including students with disabilities)	æ	®	O	VH241781
h. English language learning	A	®	©	VH241782

11. Did you have a major, minor, or special emphasis in any of the following subjects as part of your **undergraduate** coursework? Select **one** circle in each row.

VH240204

- 12. Since completing your undergraduate degree, have you taken any graduate courses?
 - (A) Yes
 - (B) No Question 22 is not applicable and will be skipped.

	Yes, a major	Yes, a minor or special emphasis	No	
a. History or history education	A	®	0	VH614171
b. Geography or geography education	۵	₿	O	VH614172
c. Political science	A	®	O	VH614173
d. General social science or social studies education	Ø	®	O	VH614174
e. Other social science (for example, economics, sociology, psychology, anthropology)	(9)	®	O	VH614175
f. Elementary or secondary education	Ø	®	O	VH241797
g. Special education (including students with disabilities)	۵	®	O	VH241807
h. English language learning	A	B	O	VH241808

13. Did you have a major, minor, or special emphasis in any of the following subjects as part of your **graduate** coursework? Select **one** circle in each row.

VH614376

14. During the last **two years**, did you participate in or lead any of the following professional development activities **related to the teaching of civics**, **geography**, **history**, **or social studies**? Select **one** circle in each row.

	Yes	No	
a. College course taken after your first certification	Ø	®	VH614381
b. Workshop or training session	A	®	VH614382
c. Mentoring and/or peer observation and coaching as part of a formal arrangement	Ø	®	VH614383
d. Co-teaching/team teaching	A	®	VH614385

2018 Operational Grade 8 Core Teacher Items

	No, I am already proficient.	No, I have not.	Yes	
a. Basic computer training	Ø	®	©	VH241894
b. Software applications	\odot	®	©	VH241895
c. Use of the Internet	۲	®	©	VH241898
d. Use of other technology—for example, satellite access, wireless Web, interactive video, closed-circuit television, videoconferencing	Ø	®	©	VH241897
e. Integration of computers and other technology into classroom instruction	Ø	®	©	VH241896

15. During the last **two years**, have you received training from any source in any of the following areas? Select **one** circle in each row.

16. In this school year, did your school offer training for teachers on how to use computers or other digital devices?

- Tes, to all teachers
- [®] Yes, to some teachers
- © No

VH295076

VH294995

- **17.** In this school year, have you participated in training on computers or other digital devices through your school?
 - No
 - Once
 Once
 - © Twice
 - Several times

- **18.** In this school year, did your school provide you with a **laptop computer** (including Chromebooks) to use for teaching and class preparation?
 - ℬ Yes, and I can take it home.
 - [®] Yes, but I cannot take it home.
 - © No
- **19.** In this school year, did your school provide you with a **tablet** (for example, Surface Pro, iPad, Kindle Fire) to use for teaching and class preparation?
 - ᢙ Yes, and I can take it home.
 - [®] Yes, but I cannot take it home.
 - © No
- **20.** In this school year, which of the following types of computers or other digital devices are available in your school for student use? Select **all** squares that apply.
 - Desktop computers
 - Laptop computers (including Chromebooks)
 - © Tablets (for example, Surface Pro, iPad, Kindle Fire)
 - Other digital devices (Please specify):
- 21. How well do the **desktop computers** in your school work?
 - All computers are functional and operate quickly.
 - (B) All computers are functional, but some run more slowly than others.
 - © All computers are functional, but all or almost all run slowly.
 - © Some of the computers do not operate and cannot be used.
 - I don't know.

VH592056

VH592052

VH617404

- All computers are functional and operate quickly.
- (B) All computers are functional, but some run more slowly than others.
- © All computers are functional, but all or almost all run slowly.
- © Some of the computers do not operate and cannot be used.
- I don't know.

- **23.** How well do the **tablets** (for example, Surface Pro, iPad, Kindle Fire) in your school work?
 - All tablets are functional and operate quickly.
 - ③ All tablets are functional, but some run more slowly than others.
 - © All tablets are functional, but all or almost all run slowly.
 - Some of the tablets do not operate and cannot be used.
 - I don't know.

	Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	
a. Teach jointly as a team in the same class	Ø	®	O	Ø	Ē	VH304693
b. Observe other teachers' classes and provide feedback	${}^{(\!$	®	O	Ø	Ē	VH304698
c. Engage in discussions about the learning development of specific students	Ø	®	Ø	Ø	¢	VH304736
d. Work with other teachers in my school to ensure common standards in evaluations for assessing student progress	6	ß	O	Ø	Ē	VH304740

24. How often do you do the following in this school? Select **one** circle in each row.

25. In your school, how severe is each problem? Select **one** circle in each row.

	Not a problem	Minor problem	Moderate problem	Serious problem	
a. The school building needs significant repair.	Ø	B	O	Ø	VH262653
b. Classrooms are overcrowded.	Ø	B	0	0	VH262654
c. Teachers have too many teaching hours.	Ø	B	O	Ø	VH262655
d. Teachers do not have adequate workspace (e.g., for preparation, collaboration, or meeting with students).	æ	₿	Ø	©	VH262656
e. Teachers do not have adequate instructional materials and supplies.	Ø	B	Ø	Ø	VH262657

VH262652

		Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me	
a.	I am satisfied with being a teacher at this school.	Ø	ß	O	Ø	Ē	VH305016
b.	My work inspires me.	A	®	Ô	D	Ē	VH305024
c.	I am frustrated as a teacher at my school.	۵	B	O	D	Ē	VH305032
d.	I am supported by the teachers at my school.	۵	B	O	D	Ē	VH305033

26. How much does each of the following statements apply to you as a teacher? Select one circle in each row.

27. Whether a student does well or poorly in school may depend on a lot of different things. You may feel that some of these things are easier for your students to change than others. In school, how possible is it for your students to change each of the following? Select one circle in each row.

	Not at all possible to change	A little possible to change	Somewhat possible to change	Quite possible to change	Completely possible to change	
a. Being intelligent	A	®	Ô	O	Ē	VH329967
b. Putting forth a lot of effort	A	B	O	Ø	Ē	VH329968
c. Behaving well in class	A	®	Ô	0	Ē	VH329970

VH329966

Appendix I-2c: Pilot Grade 4 Core (BET- Science)

Note that pilot items are labeled as 2019 pilot which indicates that they will be piloted in 2018 for operational use in 2019.

- **1.** What is your sex?
 - Male
 Male
 - Female
 Female
 A

2. Are you Hispanic or Latino? Select **all** squares that apply.

- No, I am not Hispanic or Latino.
- (Yes, I am Mexican, Mexican American, or Chicano.
- © Yes, I am Puerto Rican or Puerto Rican American.
- D Yes, I am Cuban or Cuban American.
- © Yes, I am from some other Hispanic or Latino background.

- 3. Which of the following best describes you? Select **all** squares that apply.
 - White
 White
 - Black or African American
 - © Asian
 - American Indian or Alaska Native
 - © Native Hawaiian or other Pacific Islander

VH712259

VH240385

- 1–2 years
- \odot 3–5 years
- 6–10 years
- © 11–20 years
- © 21 or more years

- **5.** Have you been awarded tenure by the school, district, or diocese where you currently teach?
 - (A) Yes
 - B No
 - © My school, district, or diocese does not award tenure.

- **6.** Do you hold a regular or standard certificate that is valid in the state in which you are currently teaching?

 - (1) Yes, I hold a temporary certificate. (This type of certificate may require additional coursework, student teaching, etc.)
 - © No, but I am currently working toward certification.
 - No, and I am not planning to obtain certification.

2019 Pilot Grade 4 Core Teacher Items

(An alternative route to certification program is a program that was designed to expedite the transition of non-teachers to a teaching career, for example, a state, district, or university alternative route to certification program.)

(A) Yes

B No
 No

8. Are you certified by the National Board for Professional Teaching Standards in at least one content area?

(The National Board for Professional Teaching Standards is a nongovernmental organization that administers National Board certification, a voluntary national assessment program that certifies teachers who meet high professional standards. In order to gain certification, the candidate must at least complete a portfolio of classroom practice and pass one or more tests of content knowledge.)

- Tes, I am fully certified by the National Board for Professional Teaching Standards.
- (B) I am working towards my National Board certification.
- © No

9. What is the highest academic degree you hold?

- High school diploma
 High schol diploma
 High schol diploma
 High schol diploma
 H
- Associate's degree/vocational certification
- © Bachelor's degree
- Master's degree
- © Education specialist's or professional diploma based on at least one year's work past master's degree
- © Doctorate
- © Professional degree (e.g., M.D., LL.B., J.D., D.D.S.)

VH240198

VH240199

	Yes, a major	Yes, a minor or special emphasis	No	
a. Biology or other life science	Ø	®	Ô	VH241768
b. Physics, chemistry, or other physical science	æ	®	O	VH241769
c. Earth or space science	Ø	®	Ô	VH241770
d. Mathematics or mathematics education	A	®	©	VH241771
e. Science education	Ø	®	O	VH241772
f. Engineering or engineering education	æ	®	O	VH241780
g. Education (including elementary or early childhood)	æ	®	O	VH241762
h. Special education (including students with disabilities)	æ	®	O	VH241781
i. English language learning	A	B	0	VH241782

10. Did you have a major, minor, or special emphasis in any of the following subjects as part of your **undergraduate** coursework? Select **one** circle in each row.

VH240204

- 11. Since completing your undergraduate degree, have you taken any graduate courses?
 - (A) Yes
 - [®] No Question 22 is not applicable and will be skipped.

	Yes, a major	Yes, a minor or special emphasis	No	
a. Biology or other life science	Ø	®	0	VH241798
b. Physics, chemistry, or other physical science	Ø	®	O	VH241799
c. Earth or space science	A	®	O	VH241800
d. Mathematics or mathematics education	Ø	®	O	VH241801
e. Science education	A	®	O	VH241802
f. Engineering or engineering education	Ø	®	O	VH241806
g. Education (including elementary or early childhood)	æ	®	O	VH241795
h. Special education (including students with disabilities)	æ	®	O	VH241807
i. English language learning	A	®	0	VH241808

12. Did you have a major, minor, or special emphasis in any of the following subjects as part of your **graduate** coursework? Select **one** circle in each row.

VH736191

13. During the last **two years**, did you participate in any of the following professional development activities **related to the teaching of science**? Select **one** circle in each row.

	Yes	No	
a. College course taken after your first certification	Ø	®	VH736192
b. Workshop or training session	A	®	VH736193
c. Mentoring and/or peer observation and coaching as part of a formal arrangement	Ø	®	VH736196
d. Co-teaching/team teaching	A	®	VH736202

325

		No, I am already proficient.	No, I have not.	Yes	
a.	Basic computer training	A	®	©	VH241894
b.	Software applications	A	®	©	VH241895
с.	Use of the Internet	A	®	©	VH241898
d.	Use of other technology—for example, satellite access, wireless Web, interactive video, closed-circuit television, videoconferencing	0	®	©	VH241897
e.	Integration of computers and other technology into classroom instruction	0	®	O	VH241896

14. During the last **two years**, have you received training from any source in any of the following areas? Select **one** circle in each row.

15. In this school year, did your school offer training for teachers on how to use computers or other digital devices?

- Tes, to all teachers
- [®] Yes, to some teachers
- © No

VH295076

VH294995

- **16.** In this school year, have you participated in training on computers or other digital devices through your school?
 - 👁 No
 - Once
 Once
 - © Twice
 - Several times

- **17.** In this school year, did your school provide you with a **laptop computer** (including Chromebooks) to use for teaching and class preparation?
 - ℬ Yes, and I can take it home.
 - [®] Yes, but I cannot take it home.
 - © No
- **18.** In this school year, did your school provide you with a **tablet** (for example, Surface Pro, iPad, Kindle Fire) to use for teaching and class preparation?
 - ℬ Yes, and I can take it home.
 - [®] Yes, but I cannot take it home.
 - © No
- **19.** In this school year, which of the following types of computers or other digital devices are available in your school for student use? Select **all** squares that apply.
 - Desktop computers
 - Laptop computers (including Chromebooks)
 - © Tablets (for example, Surface Pro, iPad, Kindle Fire)
 - Other digital devices (Please specify): ____
- 20. How well do the **desktop computers** in your school work?
 - All computers are functional and operate quickly.
 - ③ All computers are functional, but some run more slowly than others.
 - © All computers are functional, but all or almost all run slowly.
 - Some of the computers do not operate and cannot be used.
 - I don't know.

VH592056

VH592052

VH617404

- All computers are functional and operate quickly.
- ③ All computers are functional, but some run more slowly than others.
- © All computers are functional, but all or almost all run slowly.
- © Some of the computers do not operate and cannot be used.
- I don't know.

- **22.** How well do the **tablets** (for example, Surface Pro, iPad, Kindle Fire) in your school work?
 - All tablets are functional and operate quickly.
 - ③ All tablets are functional, but some run more slowly than others.
 - © All tablets are functional, but all or almost all run slowly.
 - Some of the tablets do not operate and cannot be used.
 - I don't know.

	Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	
a. Teach jointly as a team in the same class	A	®	O	Ø	Ē	VH304693
b. Observe other teachers' classes and provide feedback	Ø	®	O	Ø	¢	VH304698
c. Engage in discussions about the learning development of specific students	۵	®	Ø	Ø	©	VH304736
d. Work with other teachers in my school to ensure common standards in evaluations for assessing student progress	Ø	®	©	Ø	¢	VH304740

23. How often do you do the following in this school? Select **one** circle in each row.

24. In your school, how severe is each problem? Select one circle in each row.

	Not a problem	Minor problem	Moderate problem	Serious problem	
a. The school building needs significant repair.	æ	ß	O	Ø	VH262653
b. Classrooms are overcrowded.	æ	6	O	Ø	VH262654
c. Teachers have too many teaching hours.	Ø	B	O	Ø	VH262655
d. Teachers do not have adequate workspace (e.g., for preparation, collaboration, or meeting with students).	Ø	®	Ø	©	VH262656
e. Teachers do not have adequate instructional materials and supplies.	Ø	®	Ø	Ø	VH262657

VH262652

		Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me	
a.	I am satisfied with being a teacher at this school.	Ø	ß	O	Ø	Ē	VH305016
b.	My work inspires me.	A	®	Ô	D	Ē	VH305024
c.	I am frustrated as a teacher at my school.	A	B	0	Ø	Ē	VH305032
d.	I am supported by the teachers at my school.	A	®	O	Ø	Ē	VH305033

25. How much does each of the following statements apply to you as a teacher? Select **one** circle in each row.

26. Whether a student does well or poorly in school may depend on a lot of different things. You may feel that some of these things are easier for your students to change than others. In school, how possible is it for your students to change each of the following? Select **one** circle in each row.

	Not at all possible to change	A little possible to change	Somewhat possible to change	Quite possible to change	Completely possible to change	
a. Being intelligent	A	®	Ô	Ø	Ē	VH329967
b. Putting forth a lot of effort	۵	B	O	Ø	Ē	VH329968
c. Behaving well in class	A	®	Ô	0	Ē	VH329970

VH305005

Appendix I-2d: Pilot Grade 8 Core (BET- Science)

Note that pilot items are labeled as 2019 pilot which indicates that they will be piloted in 2018 for operational use in 2019.

- **1.** What is your sex?
 - Male
 Male
 - Female
 Female
 A

2. Are you Hispanic or Latino? Select **all** squares that apply.

- No, I am not Hispanic or Latino.
- (Yes, I am Mexican, Mexican American, or Chicano.
- © Yes, I am Puerto Rican or Puerto Rican American.
- D Yes, I am Cuban or Cuban American.
- © Yes, I am from some other Hispanic or Latino background.

- 3. Which of the following best describes you? Select all squares that apply.
 - White
 White
 - Black or African American
 - © Asian
 - American Indian or Alaska Native
 - © Native Hawaiian or other Pacific Islander

VH712259

- 1–2 years
- \odot 3–5 years
- © 6–10 years
- © 11–20 years
- © 21 or more years

VH240195

- **5.** Excluding student teaching, how many years have you taught science in grades 6 through 12, counting this year?
 - Less than 1 year
 - 1–2 years
 - \odot 3–5 years

 - © 11–20 years
 - © 21 or more years

- **6.** Have you been awarded tenure by the school, district, or diocese where you currently teach?
 - Yes
 Yes
 - B No
 No
 - © My school, district, or diocese does not award tenure.

- ℬ Yes, I hold a permanent certificate.
- (b) Yes, I hold a temporary certificate. (This type of certificate may require additional coursework, student teaching, etc.)
- © No, but I am currently working toward certification.
- No, and I am not planning to obtain certification.
- 8. Did you enter teaching through an alternative route to certification program?

(An alternative route to certification program is a program that was designed to expedite the transition of non-teachers to a teaching career, for example, a state, district, or university alternative route to certification program.)

Yes
 Yes

B No
 No

VH240198

9. Are you certified by the National Board for Professional Teaching Standards in at least one content area?

(The National Board for Professional Teaching Standards is a nongovernmental organization that administers National Board certification, a voluntary national assessment program that certifies teachers who meet high professional standards. In order to gain certification, the candidate must at least complete a portfolio of classroom practice and pass one or more tests of content knowledge.)

- Tes, I am fully certified by the National Board for Professional Teaching Standards.
- (B) I am working towards my National Board certification.
- © No

- **10.** What is the highest academic degree you hold?
 - High school diploma
 High schol diploma
 High schol diploma
 High schol diploma
 H
 - Associate's degree/vocational certification
 - © Bachelor's degree
 - Master's degree
 - C Education specialist's or professional diploma based on at least one year's work past master's degree
 - © Doctorate
 - © Professional degree (e.g., M.D., LL.B., J.D., D.D.S.)

	Yes, a major	Yes, a minor or special emphasis	No	
a. Biology or other life science	۵	®	0	VH241768
b. Physics, chemistry, or other physical science	Ø	₿	O	VH241769
c. Earth or space science	A	®	Ô	VH241770
d. Mathematics or mathematics education	Ø	₿	O	VH241771
e. Science education	Ø	®	O	VH241772
f. Engineering or engineering education	Ø	®	O	VH241780
g. Elementary or secondary education	æ	ß	O	VH241767
h. Special education (including students with disabilities)	æ	®	O	VH241781
i. English language learning	Ø	®	O	VH241782

11. Did you have a major, minor, or special emphasis in any of the following subjects as part of your **undergraduate** coursework? Select **one** circle in each row.

VH240204

- 12. Since completing your undergraduate degree, have you taken any graduate courses?
 - (A) Yes
 - [®] No Question 22 is not applicable and will be skipped.

	Yes, a major	Yes, a minor or special emphasis	No	
a. Biology or other life science	۵	®	0	VH241798
b. Physics, chemistry, or other physical science	۵	®	O	VH241799
c. Earth or space science	Ø	®	O	VH241800
d. Mathematics or mathematics education	۵	®	©	VH241801
e. Science education	Ø	®	©	VH241802
f. Engineering or engineering education	۵	®	©	VH241806
g. Elementary or secondary education	۵	®	O	VH241797
h. Special education (including students with disabilities)	۵	®	O	VH241807
i. English language learning	Ø	®	O	VH241808

13. Did you have a major, minor, or special emphasis in any of the following subjects as part of your **graduate** coursework? Select **one** circle in each row.

VH736191

14. During the last **two years**, did you participate in any of the following professional development activities **related to the teaching of science**? Select **one** circle in each row.

	Yes	No	
a. College course taken after your first certification	Ø	®	VH736192
b. Workshop or training session	A	®	VH736193
c. Mentoring and/or peer observation and coaching as part of a formal arrangement	Ø	®	VH736196
d. Co-teaching/team teaching	A	®	VH736202

		No, I am already proficient.	No, I have not.	Yes	
a.	Basic computer training	A	®	©	VH241894
b.	Software applications	A	®	©	VH241895
с.	Use of the Internet	A	®	©	VH241898
d.	Use of other technology—for example, satellite access, wireless Web, interactive video, closed-circuit television, videoconferencing	0	®	©	VH241897
e.	Integration of computers and other technology into classroom instruction	0	®	O	VH241896

15. During the last **two years**, have you received training from any source in any of the following areas? Select **one** circle in each row.

16. In this school year, did your school offer training for teachers on how to use computers or other digital devices?

- Tes, to all teachers
- [®] Yes, to some teachers
- © No

VH295076

VH294995

- **17.** In this school year, have you participated in training on computers or other digital devices through your school?
 - No
 - Once
 Once
 - © Twice
 - Several times

- **18.** In this school year, did your school provide you with a **laptop computer** (including Chromebooks) to use for teaching and class preparation?
 - ℬ Yes, and I can take it home.
 - [®] Yes, but I cannot take it home.
 - © No
- **19.** In this school year, did your school provide you with a **tablet** (for example, Surface Pro, iPad, Kindle Fire) to use for teaching and class preparation?
 - ℬ Yes, and I can take it home.
 - [®] Yes, but I cannot take it home.
 - © No
- **20.** In this school year, which of the following types of computers or other digital devices are available in your school for student use? Select **all** squares that apply.
 - Desktop computers
 - Laptop computers (including Chromebooks)
 - © Tablets (for example, Surface Pro, iPad, Kindle Fire)
 - Other digital devices (Please specify):
- **21.** How well do the **desktop computers** in your school work?
 - All computers are functional and operate quickly.
 - (1) All computers are functional, but some run more slowly than others.
 - © All computers are functional, but all or almost all run slowly.
 - © Some of the computers do not operate and cannot be used.
 - I don't know.

VH592056

VH592052

VH617404

- All computers are functional and operate quickly.
- (B) All computers are functional, but some run more slowly than others.
- © All computers are functional, but all or almost all run slowly.
- © Some of the computers do not operate and cannot be used.
- I don't know.

- **23.** How well do the **tablets** (for example, Surface Pro, iPad, Kindle Fire) in your school work?
 - All tablets are functional and operate quickly.
 - ③ All tablets are functional, but some run more slowly than others.
 - © All tablets are functional, but all or almost all run slowly.
 - Some of the tablets do not operate and cannot be used.
 - I don't know.

	Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	
a. Teach jointly as a team in the same class	۵	®	O	Ø	Ē	VH304693
b. Observe other teachers' classes and provide feedback	æ	(6)	O	Ø	¢	VH304698
c. Engage in discussions about the learning development of specific students	۵	®	Ø	Ø	©	VH304736
d. Work with other teachers in my school to ensure common standards in evaluations for assessing student progress	ß	®	©	Ø	¢	VH304740

24. How often do you do the following in this school? Select **one** circle in each row.

25. In your school, how severe is each problem? Select **one** circle in each row.

	Not a problem	Minor problem	Moderate problem	Serious problem	
a. The school building n significant repair.	leeds 💿	®	O	Ø	VH262653
b. Classrooms are overcrowded.	۵	®	O	Ø	VH262654
c. Teachers have too ma teaching hours.	ny 🔊	®	O	D	VH262655
d. Teachers do not have adequate workspace (for preparation, collaboration, or meet with students).		(1)	O	©	VH262656
e. Teachers do not have adequate instructiona materials and supplies		®	O	Ø	VH262657

VH262652

		Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me	
a.	I am satisfied with being a teacher at this school.	Ø	ß	O	Ø	Ē	VH305016
b.	My work inspires me.	A	®	Ô	D	Ē	VH305024
c.	I am frustrated as a teacher at my school.	Ø	B	0	D	Ē	VH305032
d.	I am supported by the teachers at my school.	Ø	B	O	Ø	Ē	VH305033

26. How much does each of the following statements apply to you as a teacher? Select **one** circle in each row.

27. Whether a student does well or poorly in school may depend on a lot of different things. You may feel that some of these things are easier for your students to change than others. In school, how possible is it for your students to change each of the following? Select **one** circle in each row.

	Not at all possible to change	A little possible to change	Somewhat possible to change	Quite possible to change	Completely possible to change	
a. Being intelligent	A	®	Ô	Ø	Ē	VH329967
b. Putting forth a lot of effort	۵	®	O	Ø	Ē	VH329968
c. Behaving well in class	A	®	Ô	0	Ē	VH329970

VH329966

Appendix I-2e: Summary of Revisions 2018 Grade 4 and 8 Science

						Grade 4 Science	Teache	r					
Previous item						2018 item						D/A/ R/NC+	Rationale
 Which best describes your I do not teach science I teach all or most sub The only subject I teac We team teach, and I h (2015 Grade 4) 	to this class. jects. including h is science.	science.			18:9602	 Which best describes your ro I do not teach science to t I teach all or most subject The only subject I teach i We team teach, and I have Issue: Resources for	his class. s, including sci s science. e primary respon	ence. nsībility for teac	hing science.		VIE240113	NC	
4. Are students assigned to th	iis class by achi	ievement leveli	0		-V18142206	 4. Are students assigned to thi ② Yes ③ No Issue: Organization 					VE240114	NC	
5. To what extent do you us classroom? Select one cir			nt groupings for	science instru	vrami	N/A						D	To keep student burden low and add new content
	Not at all	Small exte	nt Modera extent		tent								consistent with
 Groupings based on students' interest in science/science-related topics 	۵	٩	Ø	۵	VF633146								prior development for
 B. Groupings based on students' learning preferences or styles 	Ø	θ	Ð	Θ	VF633140								other subjects (2017 Math,
c. Groupings based on students' readiness or current achievement level	۲	٩	Ø	0	VF633150								Reading, Writing), this
(2015 Grade 4)					VB630142						VR241164		item was dropped.
 How often do you use each in each row. 	of the following	g to assess stude	nt progress in sc	ience? Select on	e circle	 How often do you use each science? Select one circle 	n of the followin in each row.	ng methods to as	sess student pro	gress in		NC	
	Never or hardly ever	Once or twice a month	Once or twice a week	Almost every day			Never or hardly ever	Once or twice a month	Once or twice a week	Almost every day			
a. Multiple-choice tests	۵	٢	0	Ø	V0610543	a. Multiple-choice tests	0	Ð	Ø	Ø	VH241165		
 Short written responses (e.g., a phrase or sentence) 	Ø	3	Ø	Ø	VB610544	 b. Short written responses (e.g., a phrase or sentence) 	0	Ð	Ø	Ø	VH241166		
c. Long written responses (e.g., several sentences or paragraphs)	0	Ð	Ø	Ð	V1810845	c. Long written responses (e.g., several sentences or paragraphs)	0	Ð	Θ	Ø	VH241169		
d. Performance-based assessments	0	₿	0	Ø	VIII.57952	d. Performance-based assessments	Ø	Ð	Ð	۵	VH241168		
e. Group projects	0	(1)	0	٩	¥¥0:57863	e. Group projects	0	Ø	©	Ø	VH241167		
(2015 Grade 4)						Issue: Organization	of Instruc	tion					

						Grade 4 Science Teacher		
Previous item						2018 item	D/A/ R/NC+	Rationale
11. To what extent do you use instruction? Select one cire		owing technologi	ical resources fo	or fourth-grade s	vernoor	N/A	D	To keep student burden low and
	Not at all	Small extent	Moderate extent	Large extent	1.41			add new content
a. Desktop computer	Θ	Ð	0	0	WC973470			consistent with
 b. Laptop computer c. Tablet computer 	8	0	00	0	VC973471 VH157962			prior
 d. Digital projector (device that connects to a computer to display presentations or demonstrate lessons, such as an LCD) 	0	9	e	0	VC973473			development for other subjects (2017 Math,
e. CD-ROM	0	D .	©	Ø	VC973474			Reading,
f. Online software	9	Ð	Ø	0	VC973475			-
g. Digital music device (pocket-sized music player used to listen to or create audio files, such as an MP3 player)	Ø	Φ.	0	Ø	VC973476			Writing), this item was dropped.
 h. Cable/satellite/ closed-circuit television 	۲	Ð	Q	0	VC973477			uroppeu.
i. DVD player and DVDs	۲	Ð	Q	0	VC973478			
j. Digital camera	0	Ð	0	Ø	VC973479			
k. Graphing calculator 1. Handheld device	0	Ð	Q	۵	VC973480			
(pocket-sized computing device, such as personal digital assistant or smartphone)	ø	Φ	Ø	Ø	VC973481			
m. Data collection sensors/ probes (tool that connects to a handheld device or graphing calculator and detects motion, pH, temperature, light)	۵	Φ	0	ø	VC975482			
 n. Online course management system (web-based software used to organize information, assignments, grades, and discussions) 	۵	Φ	0	ø	VC975488			
 Digital whiteboard (computerized display panels that can respond to fingertip command and creates a shared interactive space, akin to traditional chalkboards) 	θ	θ	θ	θ	YC973484			
(2015 Grade 4)								
 12. Which of the following provides you with the i teach your class? I get all the resourc I get most of the res I get some of the res I don't get any of th (2015 Grade 4) 	nstructional es I need. sources I need sources I need	materials and o L I.				N/A	D	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was

Previous item							2018 item							D/A/	Rationale
														R/NC+	
 When you teach science to circle in each row. 	o your fourt	h-grade class	s, do you do a	ny of the foll	owing? Select	vc767811 one	N/A							D	To keep student burden low and add new content
	Not at	all Smal	l extent	Moderate extent	Large extent										consistent with
 Use a different set of methods in teaching some students 	۹		1	O	٢	VC767814									prior development for
 Supplement the regular course curriculum with additional material for some students 	0		©	0	Ø	VC767820									other subjects (2017 Math,
c. Vary the pace of instruction for some students	Ø		Ð	O	٢	VF633254									Reading, Writing), this
 Have some students engage in different classroom activities 	(6)	6	®	Ø	0	VC767823									item was
e. Set different achievement standards for some students	0		œ	Ø	Ø	VC767824									dropped.
(2015 Grade 4)															
 In addition to your regular fourth-grade students in let 					following to er	vanom ngage	N/A							D	To keep student burden low and
		Not at all	1–2 tim yea		or more times per year										add new conten consistent with
a. Science fairs		0	0		θ	V}1142242									prior
 b. Science competitions c. Science-related field trips (including museums, zoos, aquariums, science centers, other similar sites) 	and	0	0		0	VH142244 VH142243									development for other subjects
2015 Grade 4)															(2017 Math, Reading, Writing), this item was dropped.
1. How many students are in t	his class? I	inter the nu	mber of stude	nts.		478698612	2. How many students an	e in this class	Enter the nu	mber of stude	nts.		VH261160	NC	
(2017 Grade 4)							Issue: Resources	for Learn	ning and	Instructi	on				
 In this class, about how m science? Select one circle 			on each of th	e following a	reas of	VB434433	In this class, about h science? Select one c	ow much time ircle in each ro	do you spend w.	on each of the	following area	is of	V18639433	NC	
2	No time	Very little time	Some time	Quite a bi of time	t A lot of time		[No time	Very little time	Some time	Quite a bit of time	A lot of time			
a. Life science	0	Ð	Q	ø	Ð	\$34639434	a. Life science	0	Ð	©	0	Ð	VH639434		
b. Earth and space science	0	Ð	0	0	æ	\$98630436	b. Earth and space science	0	œ	Ø	Θ	Ð	VH639436		
c. Physical science	٩	٢	Ø	Ø	Φ	VH639435	c. Physical science	Ø	Ð	©	Ø	Ð	VH639435		
d. Engineering and technology	۲	٢	0	٩	Φ	\$\$1639437	d. Engineering and technology	۵	Ð	Ø	Ø	Ð	VH639437		

							Grade 4 Scien	ce Te	acher						
Previous item							2018 item							D/A/ R/NC+	Rationale
2. In a typical week, how n in this class? Write in th (2017 Grade 4)			aching scienc	e to the stude	nts	736094661	3. In a typical week, how in this class? Write in hours and Issue: Resources	the hours a	and minutes. iinutes per w	eek		e students	VIIIMASO	R	The following revision was made: " hours and minutes per week" was added to align with similar items in other subjects (2017 Math, Reading, Writing).
 About how often do yo in each row. 		About once	About once	About once	Every day of	/Heloite	 About how often do yo one circle in each row. 		About once	About once	About once	Every day or	V16677586	R	The following revisions were made: (1)
	Never	or twice a year	or twice a month	or twice a week	almost every day			Never	or twice a year	or twice a month	or twice a week	almost every day			"activities" was
a. Work with other students on a science activity or project	Ø	Ð	θ	Ø	Φ	¥16639389	 Work with other students on a science activity or project 	69	θ	ø	Ø	Ð	VH639589		added to the
b. Write about science (e.g., papers, reports, science journals)	ø	Θ	0	æ.	θ	VER-RANKER	b. Write about science (e.g., papers, reports, or student science journals)	Ø	Ð	Ø	Ð	Φ	¥13689400		stem to improve translatability,
 Watch a science teacher do a science activity 	0	θ	0	0	θ	VH639856	c. Watch you do a science activity	۵	Φ	©	¢	¢	VH639856		and (2) subitems "b", "c", "d", and
d. Do hands-on investigations in science class	\$	Ð	Φ	۵	θ	VERGRS88	 d. Talk about the measurements and results from their hands-on activities 	8	Φ	Q	Ð	Φ	VT3639594		"e" were revised based on
e. Talk about the measurements and results from students [*] hands-on activities	۵	٩	Ø	¢	Φ	VH639594	 e. Discuss the kinds of problems that engineers can solve (e.g., how to build a bridge or how to 	0	θ	0	٣	θ	VH639597		stakeholder feedback and
 f. Discuss the kinds of problems that 	۲	٢	0	Ð	Ð	V11610507	collect energy from the Sun)								cognitive
engineers can solve g. Figure out different ways to solve a science	۵	Ð	Ø	Φ	Φ	V34639846	Figure out different ways to solve a science problem	0	θ	٥	۵	Θ	VH639846		interview study results.
problem h. Present what they have learned about science	۲	Ð	Ø	Φ	Ð	V34630593	g. Present what they have learned about science	0	Φ	©	۵	Φ	V18639593		
(2017 Grade 4)							Issue: Organizat	ion of I	nstructi	on					

Previous item							2018 item							D/A/ R/NC+	Rationale
 Thinking about your f you place on teaching row. 	ourth grade so your student	cience class th s each of the f	is year, how i ollowing? Sel	much emphasis lect one circle	s did in each	Viesadevi	9. Thinking about your s teaching your students	cience class t s each of the	this year, how following skill	much empha s? Select one	sis did you plac circle in each r	e on ow.	VF8540891	R	The following revisions were
	No emphasis	Very little emphasis	Some emphasis	Quite a bit of emphasis	A lot of emphasis	Π		No emphasis	Very little emphasis	Some emphasis	Quite a bit of emphasis	A lot of emphasis	1.11		made: (1) "fourth grade"
a. Develop good research questions	۲	Ð	0	Φ	Ð	V16540901	 Developing good research questions 	8	Φ	Θ	۲	Φ	V16640901		was removed
b. Use drawings to explain events or phenomena	Ø	٩	0	0	0	VF6640902	 b. Using drawings or models to explain events or phenomena 	Ø	θ	0	Ø	θ	VH640902		from the item
Come up with tests to answer a scientific question	8	Ð	0	0	θ	V14640903	 Coming up with experiments or other tests to answer a 	8	9	9	Ø	Ð	V1(640903		cross-grade use
 d. Organize data to derive meaning or test a solution using reasoning or calculation 	0	⊕	0	Ø	θ	VH640900	scientific question d. Organizing data into a chart, graph, or spreadsheet to test a solution	0	QD.	Ø	٩	Ð	VH640906		(2) "skills" was added to the stem to improv
 Choose words or numbers to best explain a scientific problem 	Ø	Ð	θ	Φ	θ	V14640907	e. Deciding when to use quantitative versus qualitative data	8	æ	ø	۵	Ð	VH640907		translatability, and (3) subitem
f. Generate explanations based on observations and measurements	0	Ð	0	0	θ	V14640008	f. Generating explanations based on observations and measurements	\$	D.	0	۵	Ð	VH640908		"a", "b", "c", "c "e", "f", "g", an
 g. Evaluate evidence to compare arguments 	Θ	₿	0	θ	Φ	V16640909	g. Evaluating the quality of data	(8)	D.	Ø	۲	Θ	VH640909		"h" were revise
 Read about science topics in order to convey the ideas to others 	θ	۲	0	θ	θ	VH640911	h. Teaching science ideas to others (e.g., students or teachers)	0	θ	0	۵	θ	VH640911		based on stakeholder
2017 Grade 4)							Issue: Organizatio	on of Ins	truction						feedback and cognitive interview study results.

Previous item							2018 item							D/A/ R/NC+	Rationale
 In your science class t students each of the for 	his year, how blowing? Sele	much time ha ct one circle i	ave you devote in each row.	ed to teaching	your	VH641162	 In your science class t your students each of 					ning	¥1641162	R	The following revisions were
	No or almost no time	Less than half of the time	About half of the time	More than half of the time	All or almost all of the time			No emphasis	Very little emphasis	Some emphasis	Quite a bit of emphasis	A lot of emphasis			made: (1) "time was changed to
 Make observations of natural phenomena (e.g., making measurements) 	θ	æ	Ø	Ø	Φ	V1464 163	 Making observations of natural phenomena (e.g., making measurements) 	0	θ	0	θ	θ	VH641163		"emphasis" to align wording
 b. Use models to demonstrate relationships among science principles 	θ	90	Q	Ø	Φ	VH641164	 Making predictions based on prior experimental observations 	0	Ð	Ø	Φ	θ	VH641 66		with other item (2) "skills" was
 Make predictions based on prior experimental observations 	θ	69	Θ	Θ	θ	VH641166	c. Creating models of scientific principles (e.g., a graphic, manipulative, or	0	Φ	¢	Ø	θ	VH641167		added to the stem to improv
 d. Create models of scientific principles, (e.g., a graphic, manipulative, or demonstration that 	۲	æ	Ø	Ø	Φ	VH641167	demonstration that illustrates the principle) d. Reading data in tables	w.				Ŷ	110410		translatability, (3) subitems "b
illustrates the principle)	100			-			or charts to draw conclusions about	0	Φ	ø	Ø	θ	VH641169		"e", "g" and "i" were dropped
 Design experimental procedures to investigate a particular question 	0	œ	Ø	Ø	Φ	VH641168	e. Deciding which tools would be most appropriate to gather	0	Ð	Ø	Ð	θ	VH641173		keep student burden low and
f. Read data in tables or charts, to draw conclusions	8	Φ	Ø	0	θ	VH641169	data f. Designing and testing						200		add new conte
 g. Substantiate a conclusion by using empirical evidence 	8	æ	Ø	۵	Φ	VH641170	a solution to a problem	@	æ	Q	Ø	Ð	VH641 (74		consistent with previous
 Decide which tools would be most appropriate to gather data 	0	œ	Ø	Ø	Φ	VH641)72	Issue: Organizatio	on of Ins	truction						development for other subjects
i. Evaluate the strengths and weaknesses of a solution to a problem	0	Ф	ø	Ð	Φ	VH641) 73									(2017 Math, Reading,
 Predict possible negative consequences of a proposed solution to a problem 	9	ap.	Q	Ø	Ð	VH641)74									Writing), (4) subitems "f" wa
(2017 Grade 4)															revised based of editorial review
															and (5) "j" was revised based o
															stakeholder feedback.

Previous item						2018 item					D/A/ R/NC+	Rationale
 In this school year, did your activities? Select one answe 	school offer a r choice in eac	ny of the followin h row	g supplementa	1	VFi641332	 In this school year, did your school of activities? Select one answer choice in 	fer any of the followin n each row.	ng supplementa	1	¥1641332	R	The following revisions were
		Yes		No	·		Yes		No			made: (1)
 Opportunities for students to scientific research 	participate in	۵		Φ	VH641334	 Opportunities for students to work together to solve problems in their 	۵		Ð	VH641334		Subitem "b" wa
b. Science clubs		۲		Ð	VH641336	community or the world		1.1		1000		dropped to kee
c. Opportunities for students to collective science activities (a endangered species, or nurture)	e.g., adopt an e the growth	0		Ð	VH641338	 b. Opportunities for students to engage in group science activities c. Opportunities for students to use scient 	8		Ф	VH641338		student burden
of a live animal in the classro d. Opportunities for students to instruments		Ø		©.	VH641339	instruments (e.g., thermometers, microscopes, or telescopes)	0	12	Ð	VH641330		content, (2)
 Opportunities for students to science outreach programs (e. partnerships with colleges, m 	Opportunities for students to participate in science outreach programs (e.g., partnerships with colleges, museums, or foundations) 017 Grade 4)				VH641341	 d. Opportunities for students to participat science outreach programs (e.g., partnerships with colleges, museums, o foundations) 			Φ	VH641341		subitems "a" an "c" were revised
2017 Grade 4)						Issue: Resources for Learni	ng and Instru	iction				based on stakeholder feedback, and (3) subitem "d" was revised to
 8. To what extent do you use e instruction? Select one circl 		owing technologi	cal resources fr	or science)/1941.306	12. To what extent do you use each of the instruction? Select one circle in each	following technolog		or science	V1641306	R	stakeholder feedback, and (3) subitem "d" was revised to create consistency across items. The following
8. To what extent do you use e		owing technologi Small extent	cal resources fo Moderate extent	or science Large extent	.ym4130k	12. To what extent do you use each of the	following technologi row.		or science Large extent	V1641306	R	stakeholder feedback, and (3) subitem "d" was revised to create consistency across items. The following revision was made: Subitem
 To what extent do you use e instruction? Select one circl a. Desktop or laptop computer(s) (including Chromebooks) 	le in each row.		Moderate		97841308 97841307	 12. To what extent do you use each of the instruction? Select one circle in each to instruction? Select one circle in each to at a a. Desktop or laptop computer(s) (including on the computer of a com	following technologi row.	ical resources fo Moderate		V1841304 V1841307	R	stakeholder feedback, and (3) subitem "d" was revised to create consistency across items. The following revision was made: Subitem "c" and "d" wer
 8. To what extent do you use e instruction? Select one circl a. Desktop or laptop computer(s) (including Chromebooks) b. Tablet(s) (c.g., Surface Pro, iPad, Kindle Fire) 	le in each row. Not at all	Small extent	Moderate extent	Large extent		12. To what extent do you use each of the instruction? Select one circle in each r Not at a a. Desktop or laptop	following technolog row. Il Small extent	ical resources fo Moderate extent	Large extent		R	stakeholder feedback, and (3) subitem "d" was revised to create consistency across items. The following revision was made: Subitem "c" and "d" wer revised based of cognitive
 8. To what extent do you use e instruction? Select one circl a. Desktop or laptop computer(s) (including Chromebooks) b. Tablet(s) (e.g., Surface Pro, iPad, Kindle Fire) c. Online content (e.g., online software, podcasts, or streaming videos) 	le in each row. Not at all ©	Small extent	Moderate extent ©	Large extent	VH641307	12. To what extent do you use each of the instruction? Select one circle in each is computer(s) (including chromebooks) Not at a a. Desktop or laptop computer(s) (including chromebooks) b. Tablet(s) (e.g., Surface Pro, iPad, Kindle Fire) c. Online content (e.g., online software, podeasts, or other content (e.g., online software, podeasts, or conte	following technolog row. Il Small extent ©	ical resources fo Moderate extent ©	Large extent	VH641307	R	stakeholder feedback, and (3) subitem "d" was revised to create consistency across items. The following revision was made: Subitem: "c" and "d" wei revised based of
 To what extent do you use e instruction? Select one circl computer(s) (including Chromebooks) Tablet(s) (e.g., Surface Pro, iPad, Kindle Fire) Online content (e.g., online software, podcasts, or 	le in each row. Not at all ©	Small extent © ©	Moderate extent ©	Large extent	V1H541307 V1H541308	12. To what extent do you use each of the instruction? Select one circle in each is computer(s) (including computer(s) (including chromebooks) b. Tablet(s) (e.g., Surface Pro. iPad, Kindle Fire) c. Online content (e.g., online software, podcasts, or videos) d. Interactive web spaces or virtual classrooms (e.g., websites where students or surface pro. in the students of the s	following technology row. II Small extent	ical resources fo Moderate extent ©	Large extent ©	үн641307 Ун641308	R	stakeholder feedback, and (3) subitem "d" was revised to create consistency across items. The following revision was made: Subitems "c" and "d" wer revised based o cognitive interview
 8. To what extent do you use e instruction? Select one circl computer(s) (including Chromebooks) b. Tablet(s) (e.g., Surface Pro, iPad, Kindle Fire) c. Online content (e.g., online software, podcasts, or streaming videos) d. Interactive web spaces (e.g., forums where students can interact and share 	le in each row. Not at all © ©	Small extent	Moderate extent © ©	Large extent	V1H541307 V1H541308 V1H541309	12. To what extent do you use each of the instruction? Select one circle in each is computer(s) (including chromebooks) a. Desktop or laptop computer(s) (including chromebooks) b. Tablet(s) (e.g., Surface Pro, iPad, Kindle Fire) c. Online content (e.g., online software, podcasts, or videos) d. Interactive web spaces or virtual classrooms (e.g., space)	I Small extent D D D D D D D	Moderate extent © ©	Large extent © ©	V1641307 V1641308 V1641309	R	stakeholder feedback, and (3) subitem "d" was revised to create consistency across items. The following revision was made: Subitem "c" and "d" wer revised based of cognitive interview

Previous item							2018 item								D/A/ R/NC+	Rationale
 Suppose your students think each of the follo row. 	s did very wel wing explanat	l on their last tions is in this	science test. I situation? Se	How likely do lect one circle	you in each	8764(262	 Suppose your student: think each of the follo row. 	s did very wel wing explana	l on their last tions is in this	science test. I situation? Se	How likely do lect one circle	you in each	V18641262		NC	
	Not at all likely	Not likely	Somewhat likely	Quite likely	Extremely likely	1 in al		Not at all likely	Not likely	Somewhat likely	Quite likely	Extremely likely				
 My students did well because they studied and were prepared. 	۵	æ	ø	Ø	Ð	VH641273	 My students did well because they studied and were prepared. 	0	œ	ø	Ø	Ð	VH641273			
My students did well because they put in a lot of effort.	0	Ð	Ø	Ø	Φ	VH641376	 My students did well because they put in a lot of effort. 	۵	œ	Ø	Ø	Ð	VH641176			
My students did well because they always do well on tests.	Ø	œ	0	٩	Φ	VH641177	c. My students did well because they always do well on tests.	Ø	æ	Ø	۵	Ð	VH641377			
My students did well because I taught the concepts well.	Ø	Ð	0	Ø	Θ	VH641179	d. My students did well because I taught the concepts well.	۵	dD.	ø	۵	Ð	VH641279			
 My students did well because they guessed well on the test. 	Ø	Φ	Ø	٩	Φ	VH64128)	 My students did well because they guessed well on the test. 	۵	œ	ø	Θ	Θ	VH641281			
 My students did well because they are just good at science. 	ø	0	0	۹	Θ	VH641284	f. My students did well because they are just good in science.	۵	œ	ø	۵	Ð	VH641284			
(2017 Grade 4)							Issue: Teacher I	Prepara	tion							
 How often do you m and evaluate their pr 			one to give l	feedback on t	heir work	VH63962	 In this school year, h feedback on their wo 					to give		VII639625	R	The following revision was
Never or hardly e	ever						Never or hardly	ever								made: "In this
A few times a yes A few times a							D A few times a ye	ar								school year" wa
© Once or twice a r							© Once or twice a	month								added to create
D Once or twice a v							D Once or twice a	week								consistency
© Every day or alm		r					© Every day or alm	ost every da	у							across items.
(2017 Grade 4)							Issue: Organiza	tion of I	nstructi	on						

Previous item							2018 item							D/A/ R/NC+	Rationale
 To what extent do you er science to your fourth-gr 					g	VH241190	 To what extent do you emp science to your fourth-grad 	hasize each c e class? Selec	of the followin t one circle in	g objectives each row.	in teaching		VH241190	R	The following revisions were
	Not at	all Smal	l extent M	Aoderate extent	Large extent		1	Not at all	Small ext		derate tent La	rge extent			made: (1)
a. Increase students' interest in science	٩		Ð	Ð	Ð	VH241202	a. Increasing students' interest in science	Ø	Ð		O	@ v	H241303		Subitems "c",
b. Increase awareness of the importance of science in daily life	ø		Ð	0	0	V#(241203	b. Increasing awareness of the importance of science in daily life	0	œ	at inc	Ø	@ W	H241203		"d", "f", "g", "l and "I" were
 Learn about applications o science to environmental issues 	f ø	1.25	Ð	0	0	V9(24)199	c. Teaching the iterative process of scientific inquiry	Ø	Ð	1.1.5	Ø	@ V	H639755		dropped to ke student burde
d. Teach scientific facts and principles to build foundational knowledge	۲	7	Ð	Ø	۲	V34630754	d. Teaching the iterative process of scientific practice	۵	Ø	4.1.3	ø	© *	H748077		low and add n
 Teach the iterative process of scientific inquiry and practices 	٩		•	Ø	Ø	VH63073.4	e. Developing problem-solving skills f. Developing scientific	Ø Ø	0		0	-	H241397		content, and (2 subitem "e" wa
f. Provide students with the knowledge and skills needed to prepare for uppe grade level science courses	r @		Ð	θ	0	V34630756	Issue: Organization								revised based editorial reviev
g. Develop skills to ask questions based on observations	Ø		Ð	Φ	ø	VHG9758									
h. Develop inquiry skills	Ø		Ð	Q	۵	V1041194									
 Develop skills in lab techniques 	0	1.1	•	0	0	VHIZALLOS									
 Develop problem-solving skills 	۲		Ð	0	0	V11241107									
 Develop scientific writing skills 	0		Ð	θ	0	VH241200									
2017 Grade 4) 13. How often do you do eac their progress in science?	h of the foll Select one	owing with in circle in each	ndividual stud row.	ents to evalu	ate	VHAPMAN	 In this school year, how of individual students to eval 	ften do you d luate their pr	lo each of the ogress in scier	following a nce? Select (ctivities with one circle in e	i ach row.	¥1639633	R	The following revisions were
	Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day					About once or twice a month	About once or twice a week	Every day o almost every day			made: (1) "In this school yea
 Regularly discuss each student's current level of performance with them 	0	0	0	۵	Φ	VH639634	 Regularly discuss each student's current level of performance with them 	0	Ð	0	ø	Ð	VH639634		was added to create
 b. Set goals for specific progress the student would like to make 	⊕	Φ	Ø	۵	Φ	VH639635	b. Set goals for specific progress the student would like to make	Ø	æ	0	٩	Ð	¥H639635		consistency across items,
c. Discuss progress the student has made toward goals previously set	۲	Φ	Ø	Ø	Φ	VH630636	c. Discuss progress the student has made toward goals previously set	Ø	Ð	Ø	٥	Ð	VH639616		and (2) subiter "d" was revise
 Determine how to adjust your teaching 	8	θ	Ø	Ø	θ	VH639637	d. Determine how to adjust your teaching strategies to meet the	0	ap.	Q	0	Ð	VH639637		to reduce item complexity.

Previous item						2018 item	D/A/ R/NC+	Rationale					
11. To what extent are the follo (including your school and s	wing resources school district)	s available to you ? Select one circle	in your school in each row.	system	AH61952)	11. To what extent are the following resources available to you in your school system (including your school and school district)? Select one circle in each row.							The following revisions were
	Not at all	Small extent	Moderate extent	Large extent	121		Not at all	Small extent	Moderate extent	Large extent			made: (1)
 a. Science textbooks (including digital forms, such as online textbooks) 	Ø	θ	Ø	۵	VH639521	 a. Science textbooks (print or online) 	۵	Φ	©	Ø	VH639521		Example conten for subitems "a"
b. Science magazines and						b. Science magazines and books (print or online)	٢	Ð	©	۵	VH639522		and "b" was
books (including digital forms, such as online magazines and books)	0	æ	Ø	Ð	VH639522	c. Supplies or equipment for science labs or demonstrations	۹	¢D.	©	Ø	VH639523		changed to align
 Supplies or equipment for science demonstrations 	Ø	æ	©	۵	VH639523	d. Space to conduct science	Ø	æ	Q	Ø	VH639525		wording with
d. Supplies or equipment for science labs	0	æ	Ø	۵	VH639524	labs e. Computers for students'					-		other
e. Space to conduct science	Ø	æ	Q	Ø	VH639525	use in class	Ø	Φ	©	Ø	VH639532		development, (2
labs	0	æ	G	٩	¥1103/¥525	f. Computer labs g. Computers for teachers'	0	Ð	O	0	VH639527		subitems "c" an
f. Computers for students' use in class	Ø	æ	©	۵	VH639532	g. Computers for teachers use	0	Φ	©	٢	VH639528		"d" were
g. Computer labs	8	Ð	Ô	۵	VH630527	h. Science kits	Ø	Ð	O	0	VH639531		combined to
 h. Computers for teachers' use 	Ø	Ð	Ø	Ø	VH639528	 Scientific measurement instruments (e.g., 							reduce burden,
 Computerized science labs for classroom use 	Ø	Ð	©	۵	VH639529	microscopes, thermometers, beakers, or	Ø	œ	O	Ø	VH639526		(3) subitems "I"
j. Audiovisual materials	0	Ð	©	٩	VH639530	weighing scales)							and "j" were
k. Science kits	0	œ	Ô	۵	VH639531								dropped to
 Scientific measurement instruments (e.g., telescopes, microscopes, thermometers, or weighing scales) 	۵	Φ	Ø	۵	VH639526	Issue: Resources for	Learning	and Instru	ction				reduce burden, and (4) example
2017 Grade 4)													content in
2017 Ulaue 4)													subitem "I" was
													revised to creat
													consistency
													across item
												1	wording.

Previous item						2018 item						D/A/ R/NC+	Rationale
 Which best describes your I do not teach science I teach all or most sub The only subject I teac We team teach, and I h (2015 Grade 8) 	to this class. jects. including h is science.	science.			V28096002	 Which best describes your re I do not teach science to I teach all or most subject The only subject I teach We team teach, and I hav Issue: Resources for 	NC						
4. Are students assigned to th Yes No (2015 Grade 8)	is class by achi	evement level?				 4. Are students assigned to th Tes No Issue: Organization 					VERMULA	NC	
5. To what extent do you us classroom? Select one cir	se each of the fo cele in each row Not at all	Small extent	Moderate			N/A						D	To keep student burden low and add new conter
 Groupings based on students' interest in science/science-related topics 	©	D	©	Ø	VF633146								consistent with prior development fo
 Groupings based on students' learning preferences or styles 	8	Φ	0	0	VF633149								other subjects (2017 Math,
Groupings based on students' readiness or current achievement level	۲	٩	0	Φ	¥F633150								Reading, Writing), this
2015 Grade 8)					12661544								item was dropped.
 How often do you use each in each row. 	of the following	to assess student	progress in scie	nce? Select on		 How often do you use each science? Select one circle 	ch of the followir in each row.	ng methods to as	sess student prog	gress in	VIIZA1164	NC	
	Never or hardly ever	Once or twice C a month	nce or twice a week	Almost every day		1	Never or hardly ever	Once or twice a month	Once or twice a week	Almost every day			
a. Multiple-choice tests	۵	٢	O	Ø	V9610543	a. Multiple-choice tests	0	œ	Ø	Ø	VH241165		
 Short written responses (e.g., a phrase or sentence) 	Ø	⊛	Ø	0	VB610544	b. Short written responses (e.g., a phrase or sentence)	0	Φ	Ø	Ø	VH241166		
 Long written responses (e.g., several sentences or paragraphs) 	Ø	G	0	Ø	VT610845	 c. Long written responses (e.g., several sentences or paragraphs) 	0	Ð	Ø	Ø	VH241169		
d. Performance-based assessments	۵	₿	0	Ø	V31057952	d. Performance-based assessments	0	Ð	Ø	۵	VH241168		
	۲	0	0	0	VDD 57953	e. Group projects	0	00	Ø	Ø	VH241167	1	

Previous item						D/A/ R/NC+	Rationale
 To what extent do you use instruction? Select one circ a. Desktop computer 			cal resources fo Moderate extent ©	Large extent		D	To keep student burden low and add new conten consistent with prior
b. Laptop computer	0	Ð	©	۵	VC976051		development fo
c. Tablet computer	0	Ð	O	۵	VH157981		
d. Digital projector (device that connects to a computer to display presentations or demonstrate lessons, such as an LCD)	8	Φ	0	۵	VC976054		other subjects (2017 Math, Reading,
e. CD-ROM	8	₽	Ø	Ø	VC976056		Writing), this
f. Online software	Ø	Ø	©	Ø	WQ976057		item was
g. Digital music device (pocket-sized music player used to listen to or create audio files, such as an MP3 player)	8	æ	0	۵	VC976059		dropped.
h. Cable/satellite/ closed-circuit television	8	æ	ø	۵	VC976061		
i. DVD player and DVDs	0	æ	Q	٢	VC976068		
j. Digital camera	0	Ð	Q	0	VC976067		
k. Graphing calculator	0	Ð	Q	Ø	VC976068		
 Handheld device (pocket-sized computing device, such as personal digital assistant or smartphone) 	۲	Φ	Ø	۵	VC976071		
m. Data collection sensors/ probes (tool that connects to a handheld device or graphing calculator and detects motion, pH, temperature, light)	٩	œ	۵	Ø	VC976072		
 Online course management system (web-based software used to organize information, assignments, grades, and discussions) 	۵	æ	©	Ø	VC976073		
 Digital whiteboard (computerized display panels that can respond to fingertip command and creates a shared interactive space, akin to traditional chalkboards) 	۵	QD.	Ø	Ø	VC976075		

							Grade 8 Science Teacher		
Previous item							2018 item	D/A/ R/NC+	Rationale
 Which of the following statements is true about how well your school system provides you with the instructional materials and other resources you need to teach your class? I get all the resources I need. I get some of the resources I need. I don't get any of the resources I need. (2015 Grade 8) 						REDUC	N/A	D	To keep student burden low and add new content consistent with prior development for other subjects (2017 Math, Reading, Writing), this item was
 When you teach science to circle in each row.) your eighth-g	rade class, do you o	do any of the fo	ollowing? Select o	versus		N/A	D	dropped. To keep student burden low and
	Not at all	Small extent	Moderate extent	Large extent					add new content
a. Use a different set of methods in teaching some	Ø	Ð	0	0	VC976086				consistent with
students b. Supplement the regular course curriculum with additional material for some students	Ø	θ	θ	۵	VC976088				prior development for
 vary the pace of instruction for some students 	ø	Ð	9	0	V7640396				other subjects
 Have some students engage in different classroom activities 	Ø	Φ	0	۵	VC976092				(2017 Math, Reading,
e. Set different achievement standards for some students	٩	Ð	0	0	VC976094				Writing), this
(2015 Grade 8)		L		1					item was dropped.
17. In addition to your eighth-grade studen	regular clas its in learnii	sroom instruct ng science? Sel	tion, how of lect one circ	iten do you us ele in each roy	se the follow w.	vHI4225 ving to engage	N/A	D	To keep student burden low and
		Not at	all 1	-2 times per year		re times year			add new content consistent with
a. Science fairs		0		0	-	D VH142283			prior
b. Science competitions		0		Ð	0	D VH042184			
c. Science-related field (including museums, aquariums, science c other similar sites)	200S,	Ø		Φ	Q	D VH142285			development for other subjects
(2015 Grade 8)		. / .							(2017 Math, Reading, Writing), this item was dropped.

Previous item						2018 item					D/A/ R/NC+	Rationale
 In your eighth-grade class resources to do each of the 	how often do ye following? Selo	our students use a ect one circle in e	i computer or ot ach row.	ner technologic	UCO16076	 In your eighth-grade class, how often o digital device to do each of the following 	R	The following revisions were made: (1) "technological				
	Never or hardly ever	Once or twice a month	Once or twice a week	Every day or almost every		Never o hardly ev						
a. Conduct a search for		Ð	©	day		a. Conduct a search for science information	æ	C	۵	VH241282		resources" was
 science information b. Simulate a physical or biological process or see how something works (for example, how planets orbit the sun, how gas expands) 	æ	0	0	0	VCVF0081	b. Simulate a physical or biological process or see how something works (e.g., how planets orbit the Sun or how gas expands)	œ	©	۵	VH241284		changed to "digital device" to align with
 Make a chart or graph that shows results of science projects 	ø	œ	Θ	θ	YC3/70084	c. Make a chart or graph that shows results of a science project	Φ	Ø	Ø	VH241283		other item development,
2015 Grade 8)					V786198510					VH2s1160		content for subitem "b" wa revised based o editorial review
1. How many students are in t (2017 Grade 8)	his class? Enter	the number of s	udents.			2. How many students are in this class? E Issue: Resources for Learni					NC	
 In a typical week, how muc in this class? Write in the he (2017 Grade 8) 	n time do you s ours and minute	pend teaching sci rs.	ence to the stud	ents	VH6I969 1	3. In a typical week, how much time do yo in this class? Write in the hours and mi hours and minutes Issue: Resources for Learni	nutes. per week		dents	VII704560	R	The following revision was made: " hours and minutes per week" was added to align with similar items in other
												subjects (2017 Math, Reading, Writing).
 In this class, about how m science? Select one circle 	in each row.				/340403	 In this class, about how much time do science? Select one circle in each row. 				үзкэмээ	NC	
science? Select one circle	in each row. To time	little me Some ti	Louis at			science? Select one circle in each row.	v bat	h of the following : e time Quite a b of time		VIK7943	NC	Math, Reading,
science? Select one circle A Life science	in each row.	little Some ti me ©	me Quite a bi of time	A lot of time	180401	science? Select one circle in each row. No time a. Life science Ø	Very little time Som	Quite a bi	it A lot of	VIIKJIKI	NC	Math, Reading,
science? Select one circle	in each row.	little me Some ti	me Quite a bi of time	t A lot of time		science? Select one circle in each row. No time	Very little time Som	e time Quite a bi	it A lot of time		NC	Math, Reading,

Previous item							2018 item		D/A/ R/NC+	Rationale					
 About how often do yo in each row. 	ur science s	tudents do eacl	n of the follow	ing? Select on	e circle	VHAPPIAN	About how often do yo one circle in each row.	our science s	V18639386	R	The following				
	Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day			Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	1		revisions were made: (1)
 a. Work with other students on a science activity or project 	۲	Φ	Ø	0	θ	114630589	 Work with other students on a science activity or project 	Ø	Ð	۵	Ø	θ	VH639589		"activities" wa added to the
 b. Write about science (e.g., papers, reports, science journals) 	۲	Ф	Q	٩	Φ	124616800	b. Write about science (e.g., papers, reports, or student science	Ø	Φ	Q	0	θ	¥18639400		stem to improv
 Watch a science teacher do a science activity 	۲	Φ	0	9	θ	423630456	journals) c. Watch you do a science activity	Ø	Ð	©	Φ	Φ	¥78639856		translatability, and (2) subiter
d. Do hands-on investigations in science class	Ø	œ	Ø	ø	θ	121610588	d. Talk about the measurements and results from their hands-on activities	0	Φ	Q	0	θ	VH639594		"b", "c", "d", a
 Talk about the measurements and results from students' hands-on activities 	۲	θ	0	0	θ	¥146392994	 Discuss the kinds of problems that engineers can solve 								"e" were revise based on
f. Discuss the kinds of problems that engineers can solve	۲	Ð	0	0	θ	1116294597	(e.g., how to build a bridge or how to collect energy from the Sun)	8	Φ	Q	Ø	Θ	VH639397		stakeholder feedback and
 Figure out different ways to solve a science problem 	0	₽	0	0	θ	11632846	f. Figure out different ways to solve a science problem	Ø	Ð	¢	٩	Φ	VH639846		cognitive
h. Present what they have learned about science	۹	θ	0	0	θ	914639593	g. Present what they have learned about science	0	Ð	Ø	0	Ð	VH639593		interview study results.

Previous item							2018 item 9. Thinking about your science class this year, how much emphasis did you place on teaching your students each of the following skills? Select one circle in each row.								Rationale
 Thinking about your e you place on teaching row. 	ighth grade s your student	cience class th s each of the f	is year, how 1 ollowing? Sel	nuch emphasis ect one circle i	s did in each	Vini4031									The following revisions were
	No emphasis	Very little emphasis	Some emphasis	Quite a bit of emphasis	A lot of emphasis			No emphasis	Very little emphasis	Some emphasis	Quite a bit of emphasis	A lot of emphasis			made: (1) "eighth grade" was removed
a. Develop good research questions for use as the basis of research	0	œ	8	۵	Ð	VH511056	 a. Developing good research questions b. Using drawings or 	۵	Ð	Ø	۵	Ð	VH640901		
 b. Use labeled drawings or models to explain events or phenomena 	۹	æ	Ø	Ø	Ð	VH641061	models to explain events or phenomena c. Coming up with	Ø	Ð	O	۵	Ð	VH640902		from the item stem to allow f
c. Come up with and use tests to answer a scientific question		2.1	1	1.101			experiments or other tests to answer a scientific question	۵	Ð	Θ	۵	Φ	VH640903		cross-grade use (2) "skills" was
about how one variable influences another	¢9	θ	0	٩	Ð	YH641064	d. Organizing data into a chart, graph, or spreadsheet to test a	0	θ	Θ	Θ	Ð	VH640906		added to the stem to improve
d. Organizing data in graphical displays to derive meaning or test a solution using	Ø	θ	9	Θ	θ	VH611065	solution e. Deciding when to use quantitative versus qualitative data	Ø	Ð	Ø	Ð	Φ	VH640907		translatability, and (3) subiter
reasoning, basic statistics, and probability	14		N.	1.0			Generating explanations based on observations and	0	Ð	0	٩	θ	VH640908		"a", "b", "c", "c
 Use mathematical representations to explain or support scientific conclusions 	Ø	œ	0	۵	Ð	VH641067	measurements g. Evaluating the quality of data	۵	Ð	©	Ø	Ð	VH640909		"e", "f", "g", ar "h" were revise
f. Generate explanations based on scientific ideas, models, and measurements	Ø	Ð	0	0	Φ	VH641068	h. Teaching science ideas to others (e.g., students or teachers)	۵	θ	Φ	۵	Ð	YH640911		based on stakeholder
g. Use scientific reasoning and evaluating evidence to compare and critique arguments	۵	Ð	Ø	Φ	Ð	VH641069	Issue: Organizatic	on of Inst	truction						feedback and cognitive interview study
 Collect information about science topics from both text and tables or graphs in order to convey the ideas to others 	۵	Φ	0	Θ	Ð	VH541070									results.

Previous item							2018 item							D/A/ R/NC+	Rationale
6. In your science class the students each of the for	his year, how llowing? Sele	much time ha ct one circle i	ave you devote n each row.	ed to teaching	your	VH641/62	 In your science class this year, how much emphasis have you devoted to teaching your students each of the following skills? Select one circle in each row. 								The following revisions were
1.1	No or almost no time	Less than half of the time	About half of the time	More than half of the time	All or almost all of the time			No emphasis	Very little emphasis	Some emphasis	Quite a bit of emphasis	A lot of emphasis			made: (1) "time was changed to "emphasis" to align wording
 Make observations of natural phenomena (e.g., making measurements) 	Θ	æ	Ø	Ø	Φ	VH641163	a. Making observations of natural phenomena (e.g., making measurements)	0	Ð	ø	Φ	Φ	VH641363		
b. Use models to demonstrate relationships among science principles	Θ	æ	ø	۵	Φ	VH641164	 Making predictions based on prior experimental observations 	0	Φ	ø	Ø	Φ	VH641166		with other item (2) "skills" was
c. Make predictions based on prior experimental observations	69	æ	©.	Ø	Φ	VH641166	c. Creating models of scientific principles (e.g., a graphic, manipulative, or demonstration that	0	æ	Ø	۵	Φ	VH64[167		added to the stem to improv translatability,
d. Create models of scientific principles, (e.g., a graphic, manipulative, or demonstration that illustrates the principle)	۵	æ	0	۵	Ð	V14641167	illustrates the principle) d. Reading data in tables or charts to draw conclusions about hypotheses	۵	Φ	ø	Ø	Θ	YH641 (69		(3) subitems "b", "e", "g" and "i" were dropped to
 Design experimental procedures to investigate a particular question 	0	CD.	©.	Ð	Φ	VH641168	e. Deciding which tools would be most appropriate to gather data	0	Ð	0	Φ	θ	VH641172		keep student burden low and
f. Read data in tables or charts, to draw conclusions	Ø	D.	Q	۵	Ð	VH641169	 f. Designing and testing a solution to a problem 	0	æ	Ø	Ð	Φ	VH64) 174		add new conte consistent with
g. Substantiate a conclusion by using empirical evidence	۹	Φ	ø	Ø	Φ	VH641170	Issue: Organizati	on of In	structior	า					previous development fe
 b. Decide which tools would be most appropriate to gather data 	Θ	œ	©	۵	Φ	VH641172									other subjects (2017 Math,
 Evaluate the strengths and weaknesses of a solution to a problem 	0	æ	Ø	۵	Ð	VH641.)73									Reading, Writing), (4)
 Predict possible negative consequences of a proposed solution to a problem 	۲	Ф	Ø	Φ	Φ	VH641174									subitems "f" wa revised based o
2017 Grade 8)															editorial review and (5) "j" was revised based o stakeholder feedback.

Previous item						2018 item							D/A/ R/NC+	Rationale
7. In this school year, did you activities? Select one answe			wing suppleme	ental	VH641332	 In this school year, did y activities? Select one an 	your school of nswer choice in	fer any of the n each row.	following sup	plemental		V18641332	R	The following revisions were
		Yes	5	No					Yes	1	No			made: (1)
 Opportunities for students to scientific research 	o participate ir	0		Ð	VH641334	 Opportunities for student together to solve problem 	ts to work is in their		0	. 0	Ð	VH641334		Subitem "b" wa
b. Science clubs		0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ø	VH6(1336	community or the world b. Opportunities for student	te to engage in			-				dropped to kee
c. Opportunities for students to collective science activities (endangered species, or nurtu of a live animal in the classro	(e.g., adopt an ire the growth	Ø		Ð	VH641338	group science activities c. Opportunities for student	ts to use scien		۵		0	VH641338 VH641339		student burden
 d. Opportunities for students to instruments 		0	1 - 1 - 1	Ð	VH641339	instruments (e.g., thermo microscopes, or telescope d. Opportunities for student	es)	tein	۲	-	D	VIIGALIAJY		content, (2)
 Opportunities for students to science outreach programs (e partnerships with colleges, n 	e.g.,	0		Ð	VH64(34)	science outreach program partnerships with college foundations)	ns (e.g.,		0		Ð	VH641341		subitems "a" an "c" were revised
(2017 Grade 8)						Issue: Resources	for Leari	ning and	i instruc	tion				based on stakeholder feedback, and (3) subitem "d" was revised to create
·	sch of the follow	wing technologi	cal resources fo	u science	1754189						VIB4136		R	stakeholder feedback, and (3) subitem "d" was revised to create consistency across items.
(2017 Grade 8) 8. To what extent do you use er instruction? Select one circle	e in each row.			or science	1754105	13. To what extent do you use of instruction? Select one circle	each of the folloo le in each row.	wing technologi	ical resources fo	or science	VIIstiks		R	stakeholder feedback, and (3) subitem "d" was revised to create consistency across items. The following revision was
 To what extent do you use et 		wing technologi Small extent	cal resources fo Moderate extent	or science Large extent	V164138	13. To what extent do you use e instruction? Select one circl	each of the follo				V184136		R	stakeholder feedback, and (3) subitem "d" was revised to create consistency across items. The following revision was made: Subitems
 To what extent do you use es instruction? Select one circle a. Desktop or laptop computer(s) (including 	e in each row.		Moderate		V7564.006	 13. To what extent do you use e instruction? Select one circl a. Desktop or laptop computer(s) (including Chromebooks) 	each of the folloo le in each row.	wing technologi	ical resources fo Moderate	or science	V184136		R	stakeholder feedback, and (3) subitem "d" was revised to create consistency across items. The following revision was made: Subitems "c" and "d" wer
 To what extent do you use en instruction? Select one circle computer(s) (including Chromebooks) Tablet(s) (e.g., Surface Pro, iPad, Kindle Fire) 	e in each row. Not at all	Small extent	Moderate extent	Large extent		 13. To what extent do you use a instruction? Select one circl a. Desktop or laptop computer(s) (including Chromebooks) b. Tablet(s) (e.g., Surface Pro, iPad, Kindle Fire) c. Online content (e.g., online 	each of the follow le in each row. Not at all D D	wing technologi Small extent @ @	Moderate extent ©	or science Large extent	V18641307 V18641308		R	stakeholder feedback, and (3) subitem "d" was revised to create consistency across items. The following revision was made: Subitems "c" and "d" wer
 To what extent do you use en instruction? Select one circle Desktop or laptop computer(s) (including Chromebooks) Tablet(s) (e.g., Surface Pro. 	e in each row. Not at all ©	Small extent	Moderate extent ©	Large extent	V1H641.507	 To what extent do you use e instruction? Select one circl Desktop or laptop computer(s) (including Chromebooks) Tablet(s) (e.g., Surface Pro, iPad, Kindle Fire) 	each of the follor le in each row. Not at all	wing technologi Small extent T	ical resources fo Moderate extent ©	Large extent	VH641307		R	stakeholder feedback, and (3) subitem "d" was revised to create consistency across items. The following revision was made: Subitems "c" and "d" wer revised based o cognitive interview
 8. To what extent do you use er instruction? Select one circle a. Desktop or laptop computer(s) (including Chromebooks) b. Tablet(s) (e.g., Surface Pro, iPad, Kindle Fire) c. Online content (e.g., online software, podcasts, or 	Not at all	Small extent	Moderate extent ©	Large extent	V18541307 V18541308	 13. To what extent do you use e instruction? Select one circl computer(s) (including Chromebooks) b. Tablet(s) (e.g., Surface Pro. iPad, Kindle Fire) c. Online content (e.g., online software, podeasts, or videos) 	each of the follow le in each row. Not at all D D	wing technologi Small extent @ @	Moderate extent ©	Large extent	V18641307 V18641308		R	stakeholder feedback, and (3) subitem "d" was revised to create consistency across items. The following revision was made: Subitems "c" and "d" wer revised based o cognitive

Previous item							2018 item								D/A/ R/NC+	Rationale
 Suppose your student think each of the follo row. 	s did very wel owing explana	l on their last tions is in this	science test. I situation? Se	How likely do lect one circle	you in each	VH64L062	16. Suppose your students did very well on their last science test. How likely do you think each of the following explanations is in this situation? Select one circle in each row.							NC		
	Not at all likely	Not likely	Somewhat	Quite likely	Extremely		1	Not at all likely	Not likely	Somewhat likely	Quite likely	Extremely likely				
 My students did well because they studied and were prepared. 	۵	Ð	ø	۵	Ð	V14641273	 My students did well because they studied and were prepared. 	Ø	9	ø	Ø	Φ	VH641273			
My students did well because they put in a lot of effort.	9	æ	ø	ø	Φ	VH641276	b. My students did well because they put in a lot of effort.	Ø	Ð	0	0	Φ	VH641276			
My students did well because they always do well on tests.	۹	æ	0	Ø	Φ	VH641277	c. My students did well because they always do well on tests.	Ø	Φ	Ø	Φ	Ð	VH641277			
 My students did well because I taught the concepts well. 	Ø	æ	ø	Φ	Φ	V14641379	d. My students did well because I taught the concepts well.	Ø	Φ	Ø	0	Φ	VH641279			
e. My students did well because they guessed well on the test.	۹	Ð	0	Ø	Φ	VH641281	 My students did well because they guessed well on the test. 	Ø	Φ	Ø	٩	Φ	VH641281			
 My students did well because they are just good at science. 	Ø	æ	0	Φ	Φ	VH6(1284	f. My students did well because they are just good in science.	0	θ	0	٩	Θ	VH641284			
(2017 Grade 8)							Issue: Teacher	Prepara	ation							
12. How often do you m and evaluate their p			-one to give	feedback on	their work	VH639626	 In this school year, I feedback on their we 					o give		V1633626	R	The following revision was
Never or hardly	ever						Never or hardly	ever								made: "In this
A few times a ye	ar						D A few times a ye	ar								school year" wa
© Once or twice a	month						© Once or twice a	month								added to create
Once or twice a	week						D Once or twice a	week								consistency
D Every day or alm		у					D Every day or alm	Every day or almost every day							across items.	
2017 Grade 8)							Issue: Organiza	ation of	Instruc	tion						der 035 items.

Previous item							2018 item							D/A/ R/NC+	Rationale
10. To what extent do you er science to your eighth-gr	nphasize ea ide class? S	ich of the foll- elect one circ	owing objecti le in each roy	ves in teachin w.	g	VH241290	 To what extent do you emphasize each of the following objectives in teaching science to your eighth-grade class? Select one circle in each row. 						R	The following revisions were	
	Not a	all Smal	l extent	Moderate extent	Large extent	1.11	1	Not at	all Smal	l extent	Moderate	Large extent			made: (1)
 Increase students' interest in science 	۵	-	œ	Q	Ø	VH241262	a. Increasing students' interest in science	Ø		Ð	©	٢	VH241362		Subitems "c", "d", "f", "g", "
Increase awareness of the importance of science in daily life	0	일본	Ð	Θ	Θ	VH24)263	b. Increasing awareness of the importance of science in daily life	۵		œ	Θ	Ð	VH241263		and "I" were
c. Learn about applications o science to environmental issues	0	110	Ð	Ø	0	VH241259	c. Teaching the iterative process of scientific inquiry	0	#10 C	œ	ø	Φ	VH639689		dropped to ke student burde
d. Teach scientific facts and principles to build foundational knowledge	۵	(1) (T	œ	©	Ø	VH639687	d. Teaching the iterative process of scientific practice	۵		Ð	Ø	Ø	VH748071		low and add n
 Teach the iterative process of scientific inquiry and 	0		œ	ø	Ø	VH639689	e. Developing problem-solving skills	8		OD	Ø	0	VH241257		content, and (subitem "e" w
practices f. Provide students with the				-			 f. Developing scientific writing skills 	۹	-	Ð	Ø	Ø	VH241260	revised b	revised based
knowledge and skills needed to prepare for uppe grade level science courses	0	e la P	Ð	Ø	Ø	VH639690	Issue: Organization	of Inst	ruction						editorial revie
 Develop skills to ask questions based on observations 	0		œ	0	0	VH639692									
h. Develop inquiry skills	9		Ø	Ø	Ø	VH241254									
 Develop skills in lab techniques 	٩	1.1.1.1	Ð	©	Ø	VH241256									
 Develop problem-solving skills 	٩		œ	Ø	Ø	VH241257									
k. Develop scientific writing skills	0		θ	0	0	VH241260									
2017 Grade 8) 13. How often do you do eacl	of the foll	owing with in	ndividual stud	lents to evalua	ite	VH639533	15. In this school year, how o	ften do you	do each of t	ne following	activities with		V0639633	R	The following
their progress in science?	Select one					_	individual students to eva				1	1			revisions were
	Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day			Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day			made: (1) "In this school yea
 Regularly discuss each student's current level of performance with them 	0	9	9	Ø	Φ	VH639634	 Regularly discuss each student's current level of performance with them 	Ø	Ð	9	0	Φ	VH639634		was added to create
b. Set goals for specific	۲	Ð	Ø	0	Φ	VH639635	b. Set goals for specific progress the student would like to make	0	Ð	0	۵	θ	¥H639635		consistency across items,
progress the student would like to make		9	Θ	Ð	Φ	VH639636	c. Discuss progress the student has made toward goals	0	œ	Ø	0	Ð	VH639636		and (2) subiter
	8	9					previously set								u was ievise

Previous item						2018 item						D/A/ R/NC+	Rationale
11. To what extent are the follo (including your school and	following resources available to you in your school system and school district)? Select one circle in each row.					11. To what extent are the following resources available to you in your school system (including your school and school district)? Select one circle in each row.							The following revisions were
	Not at all	Small extent	Moderate	Large extent	- 23		Not at all	Small extent	Moderate extent	Large extent			made: (1)
 a. Science textbooks (including digital forms, such as online textbooks) 	0	Ð	Ø	Ð	VH639521	 a. Science textbooks (print or online) 	٩	Φ	©	0	VH639521		Example conten for subitems "a'
b. Science magazines and	1.000					b. Science magazines and books (print or online)	۵	Φ	0	0	VH639522		and "b" was
books (including digital forms, such as online magazines and books)	8	æ	Q	۵	VH639522	c. Supplies or equipment for science labs or demonstrations	۵	Ð	Ø	0	VH639523		changed to align
 Supplies or equipment for science demonstrations 	۲	Ð	©	۵	VH639523	d. Space to conduct science	0	œ	Ø	Ø	VH639525		wording with
 Supplies or equipment for science labs 	Ø	æ	0	۵	VH630524	labs e. Computers for students'					VH639512		other development, (2
e. Space to conduct science	Ø	æ	©	Ø	VH639525	use in class f. Computer labs	0	0) 0)	0	0	VH639512 VH639527		subitems "c" an
f. Computers for students' use in class	Ø	۵D	Ø	Ø	VH639532	g. Computers for teachers' use	9	9	0	0	VH639528		"d" were
g. Computer labs	٩	(D)	©	Ø	VH639527	h. Science kits	۵	φ	Ø	0	VH639531		combined to
h. Computers for teachers' use	٩	œ	Ø	Ø	VH639528	 Scientific measurement instruments (e.g., 			-	-			reduce burden,
 Computerized science labs for classroom use 	۲	Ð	Ø	۵	VH639529	microscopes, thermometers, beakers, or	۲	Ð	0	0	VH639526		(3) subitems "I"
j. Audiovisual materials	B	Ð	©	٩	VH639530	weighing scales)							and "j" were
k. Science kits	٩	¢D	Ô	Φ	VH639531	Issue: Resources for	learning	and Instru	ction				dropped to
 Scientific measurement instruments (e.g., telescopes, microscopes, thermometers, or weighing scales) 	۵	Ð	Θ	۵	VH639526		20011115						reduce burden, and (4) example
2017 Grade 8)													content in subitem "I" was revised to creat
													consistency
													across item
													wording.

Appendix I-2f: Pilot Grade 4 Science (COI)

- **1.** Which best describes your role in teaching science to this class? Select **one** circle.
 - I do not teach science to this class.
 - I teach all or most subjects, including science.
 - © The only subject I teach is science.
 - [©] We team teach, and I have primary responsibility for teaching science.
- 2. How many students are in this class? Enter the number of students.

	1
	1
	4

3. In a typical week, how much time do you spend teaching science to the students in this class? Write in the hours and minutes.

_____ hours and _____ minutes per week

- 4. Are students assigned to this class by achievement level?
 - (A) Yes
 - B No

VH704560

VH261160

VH240113

- Never or Once or twice Once or twice Almost every a month hardly ever a week day a. Multiple-choice tests VH241165 Ø B O D b. Short written responses VH241166 A B © \odot (e.g., a phrase or sentence) c. Long written responses (e.g., several sentences or VH241169 A B O \bigcirc paragraphs) d. Performance-based VH241168 A B O \bigcirc assessments e. Group projects VH241167 A B \odot \odot
- **5.** How often do you use each of the following methods to assess student progress in science? Select **one** circle in each row.

6. In this class, about how much time do you spend on each of the following areas of science? Select **one** circle in each row.

Quite a bit A lot of Very little No time Some time time of time time a. Life science Ø B O D Đ VH639434 b. Earth and space A B O \bigcirc Ð VH639436 science c. Physical science VH639435 A B © \odot Ð d. Engineering and VH639437 A B © \odot Ð technology

2

VH241164

		Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	
a.	Work with other students on a science activity or project	0	®	O	Ø	Ē	VH639589
b.	Write about science (e.g., papers, reports, or student science journals)	Ø	®	Ø	Ø	Ē	VH639600
c.	Watch you do a science activity	A	®	O	Ø	Ē	VH639856
d.	Talk about the measurements and results from their hands-on activities	۵	®	O	Ø	Ē	VH639594
e.	Discuss the kinds of problems that engineers can solve (e.g., how to build a bridge or how to collect energy from the Sun)	Ø	®	Ø	Ø	¢	VH639597
f.	Figure out different ways to solve a science problem	۵	®	O	Ø	Ē	VH639846
g.	Present what they have learned about science	۵	®	C	Ø	Ē	VH639593

7. About how often do your science students do each of the following activities? Select **one** circle in each row.

	No emphasis	Very little emphasis	Some emphasis	Quite a bit of emphasis	A lot of emphasis	
Making observations of natural phenomena (e.g., making measurements)	0	6	Ø	Ø	Ē	VH641163
Making predictions based on prior experimental observations	0	®	Ø	Ø	¢	VH641166
Creating models of scientific principles (e.g., a graphic, manipulative, or demonstration that illustrates the principle)	0	®	O	Ø	¢	VH641167
Reading data in tables or charts to draw conclusions about hypotheses	0	6	O	Ø	¢	VH641169
Deciding which tools would be most appropriate to gather data	0	®	Ø	Ø	¢	VH641172
Designing and testing a solution to a problem	۵	®	C	Ø	Ē	VH641174

8. In your science class this year, how much emphasis have you devoted to teaching your students each of the following skills? Select **one** circle in each row.

	No emphasis	Very little emphasis	Some emphasis	Quite a bit of emphasis	A lot of emphasis	
a. Developing good research questions	Ø	®	©	Ø	Ē	VH640901
b. Using drawings or models to explain events or phenomena	\odot	®	©	Ø	Ē	VH640902
c. Coming up with experiments or other tests to answer a scientific question	0	®	©	Ø	Ē	VH640903
d. Organizing data into a chart, graph, or spreadsheet to test a solution	۱ ۵	®	©	Ø	Ē	VH640906
e. Deciding when to use quantitative versus qualitative data	Ø	®	©	Ø	Ē	VH640907
f. Generating explanations based on observations and measurements	0	®	©	Ø	Ē	VH640908
g. Evaluating the quality of data		®	©	Ø	Ē	VH640909
h. Teaching science idea to others (e.g., students or teachers)	s 🕜	®	C	©	Ē	VH640911

9. Thinking about your science class this year, how much emphasis did you place on teaching your students each of the following skills? Select **one** circle in each row.

		Not at all	Small extent	Moderate extent	Large extent	
a.	Increasing students' interest in science	Ø	ß	O	Ø	VH241202
b.	Increasing awareness of the importance of science in daily life	Ø	ß	Ø	0	VH241203
c.	Teaching the iterative process of scientific inquiry	A	®	Ö	Ð	VH639755
d.	Teaching the iterative process of scientific practice	Ø	ß	Ø	Ø	VH748077
e.	Developing problem-solving skills	A	B	0	Ø	VH241197
f.	Developing scientific writing skills	A	ß	Ö	D	VH241200

10. To what extent do you emphasize each of the following objectives in teaching science to your fourth-grade class? Select **one** circle in each row.

	Not at all	Small extent	Moderate extent	Large extent	
a. Science textbooks (print or online)		B	C	D	VH639521
b. Science magazines and books (print or online)	Ø	®	C	D	VH639522
c. Supplies or equipment for science labs or demonstrations	®	®	Ø	Ø	VH639523
d. Space to conduct science labs	æ	®	O	Ø	VH639525
e. Computers for students' use in class	Ø	®	©	D	VH639532
f. Computer labs	A	®	O	D	VH639527
g. Computers for teachers' use	Ø	®	C	D	VH639528
h. Science kits	A	B	C	D	VH639531
i. Scientific measurement instruments (e.g., microscopes, thermometers, beakers, or weighing scales)	6	®	O	D	VH639526

11. To what extent are the following resources available to you in your school system (including your school and school district)? Select **one** circle in each row.

	Not at all	Small extent	Moderate extent	Large extent	
a. Desktop or laptop computer(s) (including Chromebooks)	۵	(6)	O	Ø	VH641307
b. Tablet(s) (e.g., Surface PriPad, Kindle Fire)	ro, Ø	®	O	Ø	VH641308
c. Online content (e.g., onl software, podcasts, or videos)	line	(6)	Ø	Ø	VH641309
d. Interactive web spaces of virtual classrooms (e.g., websites where students can interact and share cl materials)	6 A	®	Ø	Ø	VH641310
e. Smart board(s)	Ø	®	C	D	VH641311

12. To what extent do you use each of the following technological resources **for science instruction**? Select **one** circle in each row.

VH639626

- **13.** In this school year, how often do you meet with students one-on-one to give feedback on their work and evaluate their progress in science?
 - Never or hardly ever
 - A few times a year
 A few times a year
 - © Once or twice a month
 - Once or twice a week
 - © Every day or almost every day

VH639633

		Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	
a.	Regularly discuss each student's current level of performance with them	Ø	®	Ø	Ø	C	VH639634
b.	Set goals for specific progress the student would like to make	(8)	®	Ø	Ø	Œ	VH639635
c.	Discuss progress the student has made toward goals previously set	Ø	(6)	Ø	Ø	¢	VH639636
d.	Determine how to adjust your teaching strategies to meet the student's current learning needs	0	®	Q	Ø	Œ	VH639637

14. In this school year, how often do you do each of the following activities with individual students to evaluate their progress in science? Select **one** circle in each row.

VH641262

- Not at all Somewhat Extremely **Quite likely** Not likely likely likely likely a. My students did well because they studied VH641273 A B O \odot Ð and were prepared. b. My students did well because they put in a A B O \odot Ð VH641276 lot of effort. c. My students did well because they always VH641277 A B O \bigcirc Ð do well on tests. d. My students did well because I taught the VH641279 A \bigcirc \bigcirc Ð B concepts well. e. My students did well because they guessed VH641281 A B O \bigcirc Ð well on the test. f. My students did well because they are just VH641284 A \bigcirc B O Ð good in science.
- **15.** Suppose your students did very well on their last science test. How likely do you think each of the following explanations is in this situation? Select **one** circle in each row.

16. In this school year, did your school offer any of the following supplemental activities? Select **one** answer choice in each row.

		Yes	No	
a.	Opportunities for students to work together to solve problems in their community or the world	Ø	®	VH641334
b.	Opportunities for students to engage in group science activities	Ø	®	VH641338
c.	Opportunities for students to use scientific instruments (e.g., thermometers, microscopes, or telescopes)	0	©	VH641339
d.	Opportunities for students to participate in science outreach programs (e.g., partnerships with colleges, museums, or foundations)	0	®	VH641341

Appendix I-2g: Pilot Grade 8 Science (COI)

Note that pilot items are labeled as 2019 pilot which indicates that they will be piloted in 2018 for operational use in 2019.

- **1.** Which best describes your role in teaching science to this class? Select **one** circle.
 - I do not teach science to this class.
 - I teach all or most subjects, including science.
 - © The only subject I teach is science.
 - [©] We team teach, and I have primary responsibility for teaching science.
- 2. How many students are in this class? Enter the number of students.

3. In a typical week, how much time do you spend teaching science to the students in this class? Write in the hours and minutes.

_____ hours and _____ minutes per week

- 4. Are students assigned to this class by achievement level?
 - (D) Yes
 - B No

VH240114

VH704560

VH240113

- Never or Once or twice Once or twice Almost every a month hardly ever a week day a. Multiple-choice tests VH241165 Ø B O D b. Short written responses VH241166 A B © \odot (e.g., a phrase or sentence) c. Long written responses (e.g., several sentences or VH241169 A B O \bigcirc paragraphs) d. Performance-based VH241168 A B O \bigcirc assessments e. Group projects VH241167 A B \odot \odot
- **5.** How often do you use each of the following methods to assess student progress in science? Select **one** circle in each row.

6. In this class, about how much time do you spend on each of the following areas of science? Select **one** circle in each row.

Quite a bit A lot of Very little No time Some time time of time time a. Life science Ø B O D Đ VH639434 b. Earth and space A B O \bigcirc Ð VH639436 science c. Physical science VH639435 A B © \odot Ð d. Engineering and VH639437 A B © \odot Ð technology

VH241164

VH639433

2

		Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	
a.	Work with other students on a science activity or project	0	®	O	Ø	Ē	VH639589
b.	Write about science (e.g., papers, reports, or student science journals)	Ø	®	Ø	Ø	Ē	VH639600
c.	Watch you do a science activity	A	®	O	Ø	Ē	VH639856
d.	Talk about the measurements and results from their hands-on activities	۵	®	O	Ø	Ē	VH639594
e.	Discuss the kinds of problems that engineers can solve (e.g., how to build a bridge or how to collect energy from the Sun)	Ø	®	Ø	Ø	¢	VH639597
f.	Figure out different ways to solve a science problem	۵	®	O	Ø	Ē	VH639846
g.	Present what they have learned about science	۵	®	C	Ø	Ē	VH639593

7. About how often do your science students do each of the following activities? Select **one** circle in each row.

	No emphasis	Very little emphasis	Some emphasis	Quite a bit of emphasis	A lot of emphasis	
Making observations of natural phenomena (e.g., making measurements)	0	6	Ø	Ø	Ē	VH641163
Making predictions based on prior experimental observations	0	®	Ø	Ø	¢	VH641166
Creating models of scientific principles (e.g., a graphic, manipulative, or demonstration that illustrates the principle)	0	®	O	Ø	¢	VH641167
Reading data in tables or charts to draw conclusions about hypotheses	0	6	O	Ø	¢	VH641169
Deciding which tools would be most appropriate to gather data	0	®	Ø	Ø	¢	VH641172
Designing and testing a solution to a problem	۵	®	C	Ø	Ē	VH641174

8. In your science class this year, how much emphasis have you devoted to teaching your students each of the following skills? Select **one** circle in each row.

	No emphasis	Very little emphasis	Some emphasis	Quite a bit of emphasis	A lot of emphasis	
a. Developing good research questions	Ø	®	©	Ø	Ē	VH640901
b. Using drawings or models to explain events or phenomena	A	®	©	Ø	Ē	VH640902
c. Coming up with experiments or other tests to answer a scientific question	A	®	©	Ø	Ē	VH640903
d. Organizing data into a chart, graph, or spreadsheet to test a solution	A	®	©	Ø	Ē	VH640906
e. Deciding when to use quantitative versus qualitative data	Ø	®	©	Ø	Ē	VH640907
f. Generating explanations based on observations and measurements	Ø	®	©	Ø	Ē	VH640908
g. Evaluating the quality of data	Ø	®	©	Ø	Ē	VH640909
h. Teaching science ideas to others (e.g., students or teachers)	Ø	®	©	©	Ē	VH640911

9. Thinking about your science class this year, how much emphasis did you place on teaching your students each of the following skills? Select **one** circle in each row.

	Not at all	Small extent	Moderate extent	Large extent	
Increasing students' interest in science	A	B	0	Ø	VH241262
Increasing awareness of the importance of science in daily life	(8)	ß	Ø	Ø	VH241263
Teaching the iterative process of scientific inquiry	A	B	O	Ø	VH639689
Teaching the iterative process of scientific practice	8	ß	Ø	Ø	VH748071
Developing problem-solving skills	A	B	0	Ø	VH241257
Developing scientific writing skills	A	B	O	Ø	VH241260

10. To what extent do you emphasize each of the following objectives in teaching science to your eighth-grade class? Select **one** circle in each row.

	Not at all	Small extent	Moderate extent	Large extent	
a. Science textbooks (print or online)	Ø	B	O	D	VH639521
b. Science magazines and books (print or online)	®	®	O	D	VH639522
c. Supplies or equipment for science labs or demonstrations	Ø	®	Ø	Ø	VH639523
d. Space to conduct science labs	®	®	O	D	VH639525
e. Computers for students' use in class	®	®	O	D	VH639532
f. Computer labs	A	®	O	D	VH639527
g. Computers for teachers' use	æ	®	©	D	VH639528
h. Science kits	Ø	®	O	D	VH639531
i. Scientific measurement instruments (e.g., microscopes, thermometers, beakers, or weighing scales)	Ø	®	O	Ø	VH639526

11. To what extent are the following resources available to you in your school system (including your school and school district)? Select **one** circle in each row.

VH241281

VH641306

		Never or hardly ever	Once or twice a month	Once or twice a week	Every day or almost every day	
a.	Conduct a search for science information	A	B	O	Ø	VH241282
b.	Simulate a physical or biological process or see how something works (e.g., how planets orbit the Sun or how gas expands)	0	®	Ø	Ø	VH241284
c.	Make a chart or graph that shows results of a science project	0	₿	Ø	0	VH241283

12. In your eighth-grade class, how often do your students use a computer or other digital device to do each of the following activities? Select **one** circle in each row.

13. To what extent do you use each of the following technological resources **for science instruction**? Select **one** circle in each row.

Moderate Small extent Not at all Large extent extent a. Desktop or laptop computer(s) (including Ø B O \bigcirc VH641307 Chromebooks) b. Tablet(s) (e.g., Surface Pro, VH641308 A B O \bigcirc iPad, Kindle Fire) c. Online content (e.g., online software, podcasts, or VH641309 A B O \bigcirc videos) d. Interactive web spaces or virtual classrooms (e.g., websites where students VH641310 A B © \odot can interact and share class materials) e. Smart board(s) © VH641311 \odot Ø B

VH639626

- 14. In this school year, how often do you meet with students one-on-one to give feedback on their work and evaluate their progress in science?
 - Never or hardly ever
 - A few times a year
 A few times a year
 - © Once or twice a month
 - Once or twice a week
 - © Every day or almost every day

VH639633

15. In this school year, how often do you do each of the following activities with individual students to evaluate their progress in science? Select **one** circle in each row.

		Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	
a.	Regularly discuss each student's current level of performance with them	0	®	Q	Ø	©	VH639634
b.	Set goals for specific progress the student would like to make	0	®	Ø	Ø	Ē	VH639635
с.	Discuss progress the student has made toward goals previously set	0	®	Ø	Ø	©	VH639636
d.	Determine how to adjust your teaching strategies to meet the student's current learning needs	Ø	®	Ø	Ø	¢	VH639637

VH641262

		Not at all likely	Not likely	Somewhat likely	Quite likely	Extremely likely	
a.	My students did well because they studied and were prepared.	0	®	Q	Ø	Ē	VH641273
b.	My students did well because they put in a lot of effort.	0	®	O	Ø	Ē	VH641276
c.	My students did well because they always do well on tests.	0	®	Ø	Ø	Ē	VH641277
d.	My students did well because I taught the concepts well.	(9)	ß	Ø	Ø	Ē	VH641279
e.	My students did well because they guessed well on the test.	0	®	O	Ø	Ē	VH641281
f.	My students did well because they are just good in science.	Ø	B	O	Ø	Ē	VH641284

16. Suppose your students did very well on their last science test. How likely do you think each of the following explanations is in this situation? Select **one** circle in each row.

17. In this school year, did your school offer any of the following supplemental activities? Select **one** answer choice in each row.

VH641332

		Yes	No	
together	inities for students to work r to solve problems in their nity or the world	Ø	®	VH641334
	inities for students to engage in cience activities	0	₿	VH641338
instrum	inities for students to use scientific ents (e.g., thermometers, opes, or telescopes)	Ø	®	VH641339
science	unities for students to participate in outreach programs (e.g., ships with colleges, museums, or ions)	0	®	VH641341

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Appendix I-2h: Summary of Revisions 2018 Grade 8 Social Studies

Gra	Grade 8 Social Studies Teacher					
Previous item	2018 item	D/A/ R/NC+	Rationale			
 Which best describes your role in teaching social studies to this class? Select all that apply. I teach all or most subjects, including social studies. The only subject I teach is social studies. We team teach, and I have primary responsibility for teaching social studies. I have primary responsibility for teaching geography. I have primary responsibility for teaching United States history. (2017 Grade 8) 	 Which best describes your role in teaching social studies to this class? Select all that apply. I teach all or most subjects, including social studies. The only subject I teach is social studies. We team teach, and I have primary responsibility for teaching social studies. I have primary responsibility for teaching geography. I have primary responsibility for teaching United States history. 	NC	N/A			
VHISTAGE 2. How many students are in this class? Enter the number of students. If you teach more than one eighth-grade social studies class, please enter the number of students in the class you are using as the basis for answering this survey. [2017 Grade 8]	VIUSSAGE 4. How many students are in this class? Enter the number of students. If you teach more than one eighth-grade social studies class, please enter the number of students in the class you are using as the basis for answering this survey.	NC	N/A			
4. In a typical week, about how much time in total do you spend with this class on social studies instruction? hours and minutes per week (2017 Grade 8)	Issue: Resources for Learning and Instruction 3. In a typical week, about how much time in total do you spend with this class on social studies instruction? hours and minutes per week Issue: Resources for Learning and Instruction	NC	N/A			
 Which best describes how social studies instruction in your school is organized? Social studies is taught primarily as a discrete subject with little or no integration with instruction in other subjects. Some social studies instruction is integrated with other subjects, and some social studies instruction is presented as a discrete subject. Social studies lessons are primarily integrated with instruction in other subjects. (2017 Grade 8) 	 Which best describes how social studies instruction in your school is organized? Social studies is taught primarily as a discrete subject with little or no integration with instruction in other subjects. Some social studies instruction is integrated with other subjects, and some social studies instruction is presented as a discrete subject. Social studies lessons are primarily integrated with instruction in other subjects. 	NC	N/A			
	Issue: Organization of Instruction					

evious item								2018 item								D/A/ R/NC+	Rationale
 During what percent primary focus on early 	ntage of soci ich of the fo	ial studies in blowing sub	nstruction t pjects? Selec	ime in this t one circle	class is your in each row		VH493388	5. During what percenta primary focus on each	ige of socia n of the foll	l studies ins lowing subje	struction ti ects? Select	ime in this o t one circle	class is your in each row.		V15493388	NC	N/A
	None	1-10%	11-40%	41-60%	61-90%	More than 90%	1		None	1-10%	11-40%	41-60%	61-90%	More than 90%			
 Civics and/or United States government 	8	Ð	0	Ø	Ð	Φ	V91493389	a. Civics and/or United States government	Ø	Ð	Ø	0	Ð	Ð	VH493389-		
. Geography	Ø	0	O	٢	Ð	Ð	VH493390	b. Geography	0	Ð	©	0	O	Ð	VH493390		
. United States history	۵	Ð	©	۵	Ð	Ð	VH493391	c. United States history	0	0	o	0	0	Ð	V16493391		
 Other social studies subject (Please specify): 	Ø	Ð	Ø	0	θ	Θ	V71493392	d. Other social studies subject (Please specify):	0	Ð	Ø	۲	Θ	Ð	VH493392		
 During this school instruction with th 		ect one circ	le in each n	ow.		(14-5). 	VTH493502	6. During this school y instruction with thi	ear, how o	ften do you ect one circ	do the foll	owing as pa	. dana Ca	udies	VH493502	R	dropped giver
 During this school instruction with th 		ect one circ Abou or ty	t once Ab	out once	About once or twice a	Every day o almost		6. During this school y	rear, how o s class? Sel	ect one circ	do the foll le in each	owing as pa row. bout once	rt of social st About once	Every day o		R	dropped giver that 71% of
instruction with th . Have students read material from a socia	ís class? Sel	ect one circ Abou or tv yo	t once Ab	ow.	About once	Every day o		6. During this school y	ear, how o	ect one circ. Abou or tw	do the foll le in each t once A vice a o	owing as pa row.	rt of social st			R	dropped giver
instruction with th Have students read material from a socia studies textbook	ís class? Sel	ect one circ Abou or tv yo	tle in each n nt once Ab vice a or ear 1	ow. out once twice a month	About once or twice a week	Every day o almost every day	1	6. During this school y instruction with thi	rear, how o s class? Sel	ect one circ Abou or tw ye	do the foll le in each t once A vice a o	owing as pa row. bout once or twice a	rt of social st About once or twice a	Every day o almost		R	dropped giver that 71% of teachers
Have students read material from a socia studies textbook Have students read extra material about social studies not in the regular textbook (e.g., newspapers, magazines, or online sources)	is class? Sel	ect one circ Abou or tv yu	tle in each n nt once Ab vice a or ear 1	ow. out once twice a month	About once or twice a week	Every day o almost every day	1	 6. During this school y instruction with thi a. Have students read haterial from a social studies textbook b. Have students read extra material about social studies not in the regular textbook (e.g., newspapers, magazines, or online 	rear, how o s class? Sel	ect one circ Abou or tw ye	do the foll le in each tt once vice a ear	owing as pa row. bout once r twice a month	rt of social st About once or twice a week	Every day o almost every day	r	R	dropped giver that 71% of teachers responded "Every day or almost every day."
. Have students read material from a socia studies textbook . Have students read extra material about social studies not in the regular textbook (e.g., newspapers, magazines, or online	is class? Sel	ect one circ	te in each n nt once Ab wice a or ear 1	ow. out once twice a month	About once or twice a week	Every day o almost every day ©	r V1483504	 6. During this school y instruction with thi a. Have students read haterial from a social studies textbook b. Have students read extra material about social studies not in the regular textbook (e.g., newspapers, magazines, or online sources) c. Have students conduction of the students conduction of the students conduction of the students conduction. 	ear, how o s class? Sel Neve	ect one circ Abou or tw ye	do the foll le in each tronce Ai vice a ear D	owing as pa row. bout once or twice a month	nt of social st About once or twice a week	Every day o almost every day ©	r	R	dropped giver that 71% of teachers responded "Every day or almost every day." Revisions wer
Instruction with th Mave students read material from a socia studies textbook Have students read extra material about social studies not in the regular textbook (e.g., newspapers, magazines, or online sources) Discuss material abou social studies with	I Ct	Abou or tvore yu	Define the second secon	out once twice a month © ©	About once or twice a week ©	Every day o almost every day ©	r V1493504 V3493506	 6. During this school y instruction with thi instruction with thi a. Have students read paterial from a social studies textbook b. Have students read extra material about social studies not in the regular textbook (e.g., newspapers, magazines, or online sources) c. Have students conduct research about social studies topics (e.g., online, in a library, or through interviews) d. Have students use 	Neve	ect one circ Pr or two Pr or tw	do the foll le in each tronce Ai vice a ear D	owing as pa row. bout once or twice a month	nt of social st About once or twice a week	Every day o almost every day ©	r	R	teachers responded "Every day or almost every day." Revisions wer made to subitem "d" to clarify the
 Instruction with the material from a social studies textbook Have students read extra material about social studies not in the regular textbook (e.g., newspapers, magazines, or online sources) Discuss material about social studies to social studies of the social stocial stocial st	I a construction of the second	er Abou or tv yy c	It once Ab wice a or 0 0 0 0 0 0 0 0	ow. out once / (twice a month) © © © © ©	About once or twice a week	Every day o almost every day © ©	т	 6. During this school y instruction with thi a. Have students read haterial from a social studies textbook b. Have students read extra material about social studies not in the regular textbook (e.g., newspapers, magazines, or online sources) c. Have students conduct research about social studies topics (e.g., online, in a library, or through interviews) d. Have students use primary sources (e.g., online, in a library, or through interviews) 	vear, how o s class? Sel Nevo © 	ect one circ Pr Abou or tw yc c c c c	do the foll le in each tt once wice a 0 D D D	owing as parow.	About once or twice a week	Every day o almost every day © ©	r V34493504 V14493506 V34493509	R	dropped giver that 71% of teachers responded "Every day or almost every day." Revisions wer made to subitem "d" to clarify the
Instruction with th Mave students read material from a socia studies textbook Have students read extra material about social studies not in the regular textbook (e.g., newspapers, magazines, or online sources) Discuss material about social studies with students Have students condu research about social studies topics (e.g., in a library or through interviews or	I a construction of the second	er Abou or tv yy c	The ineach restriction Ab or provided in each restriction Max or provided in each restriction	out once 1 out once 1 twice a 1 c 0 c 0 c 0 c 0	About once or twice a	Every day o almost every day D D D	т учичалое учичалое	 6. During this school y instruction with thi instruction with thi a. Have students read paterial from a social studies textbook b. Have students read extra material about social studies not in the regular rextbook (e.g., newspapers, magazines, or online sources) c. Have students conduct research about social studies topics (e.g., online, in a library, or through interviews) d. Have students use primary sources (e.g., letters, diaries, photographs, films, or photographs, films, o	Neve Cassi Sel Neve Cassi Sel Neve Cassi Sel Neve Cassi Sel Neve Cassi Sel Sel Sel Sel Sel Sel Sel Sel	ect one circ Pr Abou or tw yc c c c c	do the foll le in each tronce Ai ear 0	owing as parow.	nt of social st About once or twice a week	Every day o almost every day ©	r V1493504 V1493506	R	dropped giver that 71% of teachers responded "Every day or almost every day." Revisions wer made to subitem "d" to clarify the examples give
instruction with th Have students read material from a socia studies textbook Have students read extra material about social studies not in the regular textbook (e.g., newspapers, magazines, or online sources) Discuss material abo social studies with students Have students condu research about social studies topics (e.g., in a library or through interviews or observations) Discuss current even	is class? Sel Neve d @ 0 uu @ ct 1 @ r r @	ect one circo er Abou or tv yu c c c c c c c c c c c c c c c c c c	It once Ab wice a or 0 0 0 0 0 0 0 0	ow. out once / (twice a month) © © © © ©	About once or twice a week	Every day o almost every day © ©	т	 6. During this school y instruction with thi instruction with thi a. Have students read paterial from a social studies textbook b. Have students read extra material about social studies not in the regular textbook (e.g., newspapers, magazines, or online sources) c. Have students conduc research about social studies topics (e.g., online, in a library, or through interviews) d. Have students use primary sources (e.g., letters, diaries, 	Neve Cassi Sel Neve Cassi Sel Neve Cassi Sel Neve Cassi Sel Neve Cassi Sel Sel Sel Sel Sel Sel Sel Sel	ect one circ Pr Abou or tw yc c c c c c	do the foll le in each tt once wice a 0 D D D	owing as parow.	About once or twice a week	Every day o almost every day © ©	r V34493504 V14493506 V34493509	R	dropped giver that 71% of teachers responded "Every day or almost every day." Revisions wer made to subitem "d" to clarify the

Previous item							2018 item							D/A/ R/NC+	Rationale
 During this school year of social studies instruct 	so far, how	often have yo is class? Seleo	u done each of ct one circle in	the following each row.	as part	VH493515	 During this school year of social studies instruct 	so far, how tion with th	often have y is class? Selo	ou done each of ect one circle in	the following each row.	as part	VH493515	R	Subitem "a" was dropped given
	Never	Once	Two or three times	Four or five times	More than five times			Never	Once	Two or three times	Four or five times	More than five times			that more than 70% of teachers
 a. Gone on class field trips to learn about social studies topics 	۵	Φ	ø	Φ	Φ	VI 1 493516	 a. Had students give class presentations on social studies topics 	٩	Ð	ø	Θ	Φ	VH493518		responded
 b. Had outside speakers in class discuss social studies topics 	Ø	Ð	ø	٩	Ð	VH493517	 b. Had students write about their opinion on a problem or issue 	(9)	θ	0	θ	θ	VH493523		"Never". Also please note that
c. Had students give class presentations on social studies topics	0	Ð	Q	Ø	Ð	VT(493518	(e.g., in a letter, e-mail, or blog post) c. Had students take part in debates or panel						VH493524		this item is an example of
 d. Had students listen to or watch movies, videos, or online content about social studies topics 	Ø	Ð	Q	Ð	Ð	VH493519	discussions d. Had students take part in role-playing, mock trials, or dramas about	0	© ©	0	9	0	VH493525		when teacher/sutdent
e. Had students write about their opinion on a problem or issue (e.g., in a letter, e-mail, or blog post)	۵	Ð	Q	®	Ð	VH493523	social studies topics	n of In							comparability may not be needed.
 f. Had students take part in debates or panel discussions 	Ø	Ð	Q	Θ	Φ	VH493524	issue. Organizatio	II OF III:	structio	11					Subitem "b" wa
g. Had students take part in role-playing, mock trials, or dramas about social studies topics	Ø	Ð	0	Ð	θ	VH498525									dropped as this item does not
2017 Grade 8)															directly map onto a student item.
															Subitem "d" wa dropped given
															that the
															response option differ between
															the student and

revious item							2018 item							D/A/ R/NC+	Rationale
 When students in this computers or other di 	s class work or gital devices to	n social studie o do the follo	es, to what exte wing? Select on	nt do they us e circle in ea	se ich row.	VH493490	8. When students in this computers or other di	class work or jital devices to	n social studie 5 do the follow	es, to what exte wing? Select on	nt do they u e circle in ea	se ach row.	V15493490	R	Subitem "b" wa revised for
	Never or hardly ever	Once in a while	Sometimes	Often	Always or almost always			Never or hardly ever	Once in a while	Sometimes	Often	Always or almost always			clarity as per Fresh Eyes
 Use the Internet to look for evidence or sources (e.g., text documents, photographic images, or films) 	Ø	Ð	Q	Φ	θ	V)1493491	 a. Use the Internet to look for evidence or sources (e.g., text documents, photographic images, or films) 	θ	θ	ø	Φ	Θ	VH493491		review, from "Use games or apps" to "Play
b. Use games or apps in which students play a role (e.g., an explorer, geographer, or historian)	۵	θ	Ø	٩	Φ	VH493493	 Play games or use apps in which students play a role (e.g., an explorer, geographer, or historian) 	0	Ð	Q	θ	θ	VH728046		games or use apps".
c. Create reports or projects about social studies using different forms of media (e.g., a slide presentation that combines text and video clips)	۵	Ð	Ø	Φ	θ	¥31493494	c. Create reports or projects about social studies using different forms of media (e.g., a slide presentation that combines text and video clips)	Ø	Ð	Ø	Ø	Ð	VH493494		
 Organize information about social studies topics by creating tables, charts, or graphs 	Θ	Ð	Φ	٩	Φ	V11493496	 d. Organize information about social studies topics by creating tables, charts, or 	Ø	Ð	Ø	٩	Ð	VH49349 6		
e. Participate in online discussions about social studies on a website (e.g., in forums or social media)	۵	Ð	Ø	θ	θ	¥H493498	graphs e. Participate in online discussions about social studies on a website (e.g., in forums or social media)	۵	Ð	Ø	Ð	Θ	VH493498		

revious item							2018 item							D/A/ R/NC+	Rationale
 In your social studies c assess student progress 	lass this yea in social stu	r, how often do Idies? Select or) you use each 1e circle in eac	of the followi h row.	ng to	VH483529	 In your social studies c assess student progress 	lass this yea in social stu	r, how often do adies? Select of	o you use each ne circle in eac	of the followi ch row.	ng to	¥H4995399	R	Item matrix VH493529 was
	Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day			Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day			dropped to reduce burden,
 Tests with multiple-choice, true/ false, or matching type questions 	۹	Ð	9	θ	Φ	VH493530	a. Tests with multiple-choice, true/ false, or matching type questions	Ø	(D)	Ø	Ø	Ð	VH493530		with the exception of
b. Tests with fill-in-the-blank. questions	0	Ð	0	Θ	Ð	YH493531	 b. Short written responses (e.g., a paragraph or less) 	0	Ð	Q	⊕	Φ	VH739504		subitem VH493530 whic
c. Paragraph-length written responses about what students have read	Ø	Ð	0	Θ	Φ	YH493532	c. Long written responses (e.g., several paragraphs)	۵	Ð	Ø	Ð	Φ	VH493540		was moved to item matrix
 Extended essays/ papers on assigned topics 	۵	Ð	0	Θ	Φ	VH493533	d. Responses to questions based on information from	0	Φ	Q	θ	θ	VH493541		VH493539.
e. Individual projects	0	Ð	Q	0	Ð	VH493534	several sources (e.g., letters, cartoons, or			9	w.	U.			
. Group projects	0	Ð	0	0	Ð	VH493536	maps)								Subitem
 In your social studies of assess student progress 	lass this yea in social stu Never	r, how often do idies? Select of About once or twice a year	o you use each ne circle in eac About once or twice a month	of the follows the row. About once or twice a week	ng to Every day or almost every day	VH493539	e. Computer-based or online assessments	© on of In	structior	C	Ð	Ð	VH493544		VH493543 was dropped given that 62% of respondents choose "Never
 Long written responses (e.g., several paragraphs) 	Ø	Ð	Ø	θ	Ð	VH493540									and this subite does not map of
b. Responses to questions based on information from several sources (e.g., letters, cartoons, or maps)	Φ	Ð	Ø	θ	θ	VH493541									to items assessed in cog
c. Portfolios	0	Ð	Ø	0	Θ	VH493543									
d. Computer-based or														1	1

 17. When giving assessme the assessment results a. Regularly discuss each student's current level of performance with them 				ircle in each ro More than	ow.	VH493773								R/NC+	
student's current level of performance with	hardly ever	half of the		More than	100 and 100 and		 When giving assessme the assessment results 						V18493773	NC	N/A
student's current level of performance with	۵	1	A	half of the time	Always or almost always			Never or hardly ever	Less than half of the time	About half of the time	More than half of the time	Always or almost always			
		Ð	9	θ	θ	VH493774	 Regularly discuss each student's current level of performance with them 	٩	θ	Q	Ð	Ð	VH493774		
b. Set goals for specific progress the student would like to make	۵	Ð	0	Θ	Ð	VH493775	 b. Set goals for specific progress the student would like to make 	Ø	Ð	Ø	Φ	Θ	VH493775		
c. Discuss progress the student has made toward goals previously set	Ø	Φ	0	θ	Ð	VH493777	c. Discuss progress the student has made toward goals	۵	Ð	0	θ	Ð	VH493777		
d. Determine how to adjust your teaching strategies to meet the student's current learning needs	Ø	Φ	Ø	Φ	Ð	VH493778	previously set d. Determine how to adjust your teaching strategies to meet the student's current	۵	Ð	Ø	Φ	Φ	VE1493778		
2017 Grade 8)							learning needs	on of Ins	truction						
 Do you give instructio students? 	n in civics and	/or United St	ates governme	ent to your		VH566822	 Do you give instruction students? 	in civics and	/or United St	ates governme	ent to your		VH566822	NC	N/A
Tes (Tes (D) Yes								
No Questions 19, 2	20, and 21 are	not applicabl	e and will be	skipped.			(1) No \rightarrow Questions 12,	13, and 14 a	e not applicat	ble and will b	e skipped.				
2017 Grade 8)							Issue: Organizati	on of Ins	truction						

Previous item							2018 item							D/A/ R/NC+	Rationale
19. In your social studies topics in civics and/or	class this year United State	r, how much ha s government?	ive you emp Select one c	hasized the follo ircle in each rov	owing v.	VH493606	 In your social studies topics in civics and/or 	class this year	, how much h	ave you emph	asized the fol	lowing	V18728253	R	Subitem "a" wa dropped due to
	Not at all	Very little	Some	Quite a bit	A lot	1. 1. 1	topico in crites una/or	omea state	- Sovermient.	and a second of	ere m cuen re				overlap with
a. The United States Constitution	0	Ð	©	٥	Φ	VH493608		Never or hardly ever	Less than half of the lessons	About half of the lessons	More than half of the lessons	All or almost all of the lessons	151		items in matrix
b. The three branches of the United States government (executive, judicial,	Ø	Ð	0	٩	Φ	VH493610	a. Political parties, elections, and voting	0	D	©	©	D	VH728261		VH493643.
and legislative branches)							b. Other countries' governments (e.g.,								Subitem "b" wa
c. How laws are made	0	Ð	Ø	۵	Ð	VH493614	their structure, how they are run, or	0	Ð	©	0	Ð	VH728259		dropped due to
 Political parties, elections, and voting 	0	Ð	©	۵	Ð	VH493615	interactions with the United States)								overlap with
e. State government and local government	Ø	Ð	Ø	۵	Ð	¥H493616	c. International organizations (e.g., the					-			items in matrix
f. Other countries' governments (e.g., their structure, how they are run, or	0	Φ	Ø	۵	Θ	VH493617	United Nations, World Bank, or World Health Organization)	0	Ð	Ø	Φ	Φ	VH728260		VH493643.
interactions with the United States)	-						 Current political and social issues 	8	Ð	0	θ	Φ	VH728257		Subitem "c" wa
g. International organizations (e.g., the United Nations, World Bank, or World Health Organization)	۹	Ð	Ø	۵	θ	VH493618	Issue: Organizati	on of Ing	truction						dropped due to overlap with items in matrix
h. Current political and social issues	0	Ð	Ø	٩	Φ	VH493619	issue. Organizati		uction						VH493643.
2017 Grade 8)															Subitem "e" wa dropped due to overlap with items in matrix

Previous item							2018 item							D/A/ R/NC+	Rationale
20. In your social studies teaching your student	class this sch is each of the	ool year, how r following? Sele	nuch have y ect one circle	ou emphasized in each row.		VH493643	 In your social studies of teaching your students 						¥B473643	R	Subitem "g" wa dropped to
	Not at all	Very little	Some	Quite a bit	A lot			Not at all	Very little	Some	Quite a bit	A lot			reduce burden
 Examining the roles and functions of the three branches of the United States government 	Ø	Ð	0	۵	θ	VH493645	 Examining the roles and functions of the three branches of the United States government 	۵	Ð	Q	۵	Θ	Y11493645		and because there was no parallel item in
b. Examining the rights and responsibilities of United States citizens	۵	Ð	0	Ø	Ð	VH493646	 Examining the rights and responsibilities of United States citizens 	Ø	Ð	©	Ø	Φ	VH493646		student.
c. Examining how the United States influences and is influenced by events in other countries	Ø	Ø	Ø	۵	Φ	VH493647	c. Examining how the United States influences and is influenced by events	0	Ð	۵	۵	θ	VH493647.		
d. Comparing the roles and responsibilities of local, state, and national governments in the United States	Ø	Ð	Ø	۵	Φ	VH493648	in other countries d. Comparing the roles and responsibilities of local, state, and national governments	٩	Ð	©	٢	Ð	¥11493648		
 Examining why it is important to pay attention to the political process and government 	۵	Ð	©	۵	Φ	¥H493650.	in the United States e. Examining why it is important to pay attention to the political process and	Ø	Ð	©	Φ	θ	V21493650		
Examining why it is important for individuals to participate in the political process and government	۵	Ð	Q	۵	Φ	VH49365)	government f. Examining why it is important for individuals to participate in the	Ø	Ð	Ø	۵	θ	VH493651		
 g. Supporting an opinion about an issue or problem with reasons and examples 	Ø	Ð	0	۵	Θ	VH493656	political process and government g. Discussing the political process and	0	Ð	©	Ø	0	VH493658		
 Discussing the political process and government with others 	Ø	Ð	0	۵	Φ	VH493658	government with others	9				9			
2017 Grade 8)							Issue: Organizatio	on of Ins	truction						
 21. During the past two y (e.g., training session: improving your abilit Tes, I have attend Yes, I have attend Yes, I have attend 	s and worksho y to teach civ ed programs t	ps, including o ics and/or Unit hat are required	nline classes ed States gov I by my scho) aimed at vernment? ol or district.		V#493m2	 14. During the past two year (e.g., training sessions an improving your ability to that apply. ③ Yes, I have attended p ⑤ Yes, I have attended p © No 	s, have you a d workshops, o teach civics programs that	ttended profess including onli and/or United are required b	ne classes) a l States gove y my school	aimed at ernment? Select or district.		VIDTIDIS	was revise include inl directions multiple	The item stem was revised to include inline directions for multiple selection since
2017 Grade 8)							Issue : Teacher Pre	eparatio	'n						the first two response option can both be applicable in certain cases.

							2018 item							D/A/ R/NC+	Rationale
 22. Do you give instructio Tes No Questions 23, 1 2017 Grade 8) 	0 0 1			e skipped.		VH493705	 15. Do you give instructi 				l be skipped.		V18493705	NC	N/A
 23. In your social studies topics in geography? 5 	class this yea Select one circ	r, how much ha le in each row.	ive you emp	hasized the follo	owing	VH491706	Issue: Organizat	class this yea	r, how much ha	1-2-1	hasized the follo	wing	V11493706	R	Subitem "a" wa dropped to
	Not at all	Very little	Some	Quite a bit	A lot			1		reduce burden					
a. Using physical or			7 4. 267		Not at all Very little Solile Quite a bit A lot										and because the
digital maps (e.g., a road map, MapQuest, or Google Maps) and globes	۵	Ð	Ø	۵	Φ	VI4493707	 Environmental issues (e.g., pollution, recycling, climate 	(e.g., pollution, recycling, climate							content overlap with items in matrix
b. Countries and cultures	0	Ð	©	Ð	Ð	VH4937D8	change, or genetically modified food)	change, or genetically							
c. Environmental issues (e.g., pollution, recycling, climate change, or genetically	Ø	Ð	Ø	Ø	Ð	VE1493709	c. Basic concepts of physical and human $\[mbox{$\Phi$$}\] \label{eq:physical and human $\Phi$$}\] eq:physical and human $						VI4493710		VH493726.
	modified food) Basic concepts of physical and human $_{OD}$ $_{OD}$ $_{OD}$ $_{OU}$ $_{^{VHWETID}}$							Ø	Φ	Ø	Ø	Ð	VH493711		
d. Basic concepts of	ariation among gions and how cople interact across						communication,				L. CANE				
d. Basic concepts of physical and human	Ø	Ð	O	ø	Ð	VH493711	transportation, or trade				1 1				

Previous item							2018 item							D/A/ R/NC+	Rationale
24. In your social studies teaching your student	class this sch s each of the	ool year, how m following? Selec	uch have y ct one circle	ou emphasized in each row.		VH493725	17. In your social studies teaching your student	class this sch s each of the	ool year, how n following? Sele	nuch have y ct one circle	ou emphasized e in each row.		VIB493725	NC	N/A
	Not at all	Very little	Some	Quite a bit	A lot			Not at all	Very little	Some	Quite a bit	A lot			
 Using a map (e.g., a road map, MapQuest, or Google Maps), atlas, or globe to locate different cities, countries, and continents 	Ø	Ð	Ø	Ø	Ð	VH493726	a. Using a map (e.g., a road map, MapQuest, or Google Maps), atlas, or globe to locate different cities, countries, and continents	Ø	Φ	Ø	Φ	Ð	VH493726		
b. Examining how natural features of the Earth (e.g., rivers or mountains) are formed	0	Ð	۵	Ð	Θ	VH493728	 Examining how natural features of Earth (e.g., rivers or mountains) are formed 	Ø	Ð	Ø	Ø	θ	V11728062		
c. Measuring distances and the sizes of areas on maps	Ø	Ð	Ø	Ø	Ð	VH493729	c. Measuring distances and the sizes of areas on maps	8	Ð	0	۵	Φ	VH493729		
 Examining what makes different regions in the United States unique 	Ø	Ð	Ø	Φ	Ð	VH493730	 d. Examining what makes different regions in the United States unique 	Θ	Ð	0	۵	Φ	V1f493730		
Examining why groups of people migrate to different parts of the world	۵	Ð	Ø	Ø	Φ	VH493736	e. Examining why groups of people migrate to different parts of the world	8	Ð	Ø	۵	Φ	VH493736		
Examining how humans affect the natural environment	۵	Ð	Ø	۵	Φ	VH493737	f. Examining how humans affect the natural environment	0	Ð	©	Ø	Ð	VH493737		
g. Examining how humans adjust to the natural environment	Ø	Ð	Ø	Ø	Φ	VH603016	g. Examining how humans adjust to the natural environment	Ø	Ð	Ø	Ø	Φ	V1(603016		
 Examining why different food and energy resources are traded globally 	Ø	Ð	©	Ø	Φ	VH493740	 Examining why different food and energy resources are traded globally 	Ø	Ð	0	۵	Φ	V11493740		
 Using geographic information (e.g., maps, satellite images, or population data) to answer a question or solve a problem 	۵	Ð	Ø	۵	Φ	¥H493743	 i. Using geographic information (e.g., maps, satellite images, or population data) to answer a question or solve a problem 	0	Φ	©	Φ	Φ	VH49374 <i>3</i>		
2017 Grade 8)							Issue: Organizati	on of Ins	struction						
During the past two year (e.g., training sessions an improving your ability to ⁽¹⁾ Yes, I have attended p ⁽²⁾ Yes, I have attended p ⁽²⁾ No 2017 Grade 8)	d workshops, teach geogra rograms that	including onlir phy? are required by	ne classes) a my school	imed at or district.		574493001	 18. During the past two yea (e.g., training sessions arimproving your ability t ① Yes, I have attended ① Yes, I have attended ① Yes, I have attended ② No 	nd workshops o teach geogr programs tha programs tha	s, including onl aphy? Select al at are required b at are not requir	line classes) Il that apply by my schoo) aimed at 7. ol or district.		VII717116	R	The item stem was revised to include inline directions for multiple selection since the first two response optio can both be applicable in

revious item							2018 item							D/A/ R/NC+	Rationale
 26. Do you give instruction in United States history to your students? (D) Yes (D) No Questions 27, 28, 29, and 30 are not applicable and will be skipped. 017 Grade 8) 							 If the second second						NC	N/A	
27. In your spcial studies periods of United Stat	class this year es history? Se	, how much ha lect one circle i	ve you emp in each row.	hasized the follo	owing	VH493550	20. In your social studies periods of United State	class this year	, how much ha	ave you emp in each row	hasized the follo	owing	VI1493550	NC	N/A
	Not at all	Very little	Some	Quite a bit	A lot			Not at all	Very little	Some	Quite a bit	A lot			
a. The period before 1815 (e.g., age of exploration, colonization, settlement, or American Revolution)	۵	Ð	©	Ø	Ð	VH493552	a. The period before 1815 (e.g., age of exploration, colonization, settlement, or American Revolution)	۵	Φ	Ø	Ø	θ	VH493552		
b. 1815 to 1865 (e.g., expansion, reform, sectionalism, or the Civil War)	9	Ð	©	0	Φ	V11493553	 b. 1815 to 1865 (e.g., expansion, reform, sectionalism, or the Civil War) 	۵	Ð	0	۵	Φ	VH493553		
c. 1865 to 1945 (e.g., Reconstruction, industrial growth, United States role in world events, immigration, the Great Depression, or the First and Second World Wars)	۵	Ð	Q	۵	Ð	V13493554	c. 1865 to 1945 (e.g., Reconstruction, industrial growth, United States role in world events, immigration, the Great Depression, or the First and Second World Wars)	۵	Φ	۵	Φ	Φ	VH483554		
d. 1945 to the present (e.g., the Cold War, Civil Rights movement, women's rights movement, Vietnam War, or	Ø	Ð	Ø	٥	Ð	V14493556	d. 1945 to the present (e.g., the Cold War, Civil Rights movement, women's rights movement, Vietnam War, or environmental	69	Ð	©	Φ	Φ	VH493556		

each of the f	ool year, how n ollowing? Sele Very little	nuch have yo ct one circle	ou emphasized			2018 item							D/A/	Detterrete
each of the f	ollowing? Sele	nuch have yo ct one circle	ou emphasized										R/NC+	Rationale
	your social studies class this school year, how much have you emphasized aching your students each of the following? Select one circle in each row. Not at all Very little Some Quite a bit A lot mining the causes Image: Comparison of the cause							ool year, how m ollowing? Selec				V16493578	NC	N/A
0		Some	Quite a bit	A lot			Not at all	Very little	Some	Quite a bit	A lot			
	Φ	©	Ø	Φ	VH49358D	a. Examining the causes and effects of important events in United States history	\$	Ð	Q	Ð	Ð	VH493580		
Θ	Ð	©	۵	Φ	VH493582	 Examining how time periods in United States history are 	۵	Ð	0	Ø	Θ	VH493582		
٩	Ð	Ø	Ø	Ð	VH493583	c. Judging whether information from a source (e.g., text, visual graphics, video,	Ø	Ð	Ø	Ð	Φ	VH493583		
0	Ð	©	۵	Ð	VH493587	d. Analyzing the relationship between	Ø	Ð	©	Ø	Φ	VH493587		
0	Ð	Ø	Ø	Ð	VH493589	e. Comparing and evaluating different points of view about the past (e.g., different	۵	Đ	Ø	Ð	Ð	VH493589		
۵	Ð	©	Φ	Ð	VH49359D	caused the Civil War) f. Coming up with research questions about why or how something happened	۵	Ð	Ø	Ð	Φ	VH493590		
۹	Ð	©	Φ	Ð	V[6493591	were the causes of the Great Depression) g. Taking and defending a position about a historical issue (e.g., how changes in	Ø	Ð	Q	٥	θ	VH493591.		
						affected the United States economy)	on of Ins	truction						
d workshops teach histo rograms tha	s, including on ry? it are required	line classes) by my scho) aimed at ol or district.		y74493861	 (e.g., training sessions a improving your ability Yes, I have attended Yes, I have attended No 	and workshop to teach histo d programs th d programs th	is, including on ory? Select all th at are required l at are not requi	line classes) hat apply. by my schoo	aimed at ol or district.	IS	91071710	R	The item stem was revised to include inline directions for multiple selection since the first two response options can both be applicable in
t	© © © © have you workshop each histo			Image: state of the state	Image: state of the state	Image: state of the state	a a a a a a a b Examining how time periods in United States history are similar or different information from a source (e.g., text, visual graphics, video, or audio) is accurate a	a a a b Examining how time periods in United states history are similar or different a a a <t< td=""><td></td><td>Image: Construction of the set of t</td><td></td><td>Image: Constraint of the state of the s</td><td></td><td>Image: Interpretation of the second processional development programs that are not required by my school or district. There you as useded professional development programs are not required by my school or district.</td></t<>		Image: Construction of the set of t		Image: Constraint of the state of the s		Image: Interpretation of the second processional development programs that are not required by my school or district. There you as useded professional development programs are not required by my school or district.

evious item							2018 item							D/A/ R/NC+	Rationale
			eir last social studies test. How likely do ons is in this situation? Select one circle in				 Suppose your students you think each of the each row. 	s did very wel following exp	l on their last planations is in	social studies n this situation	test. How like n? Select one o	ely do tircle in	VII493813	NC	N/A
	Not at all likely	Not likely	Somewhat likely	Quite likely	Extremely likely			Not at all likely	Not likely	Somewhat likely	Quite likely	Extremely likely			
 My students did well because they studied and were prepared. 	Ø	Ð	©	٩	θ	VH493814	a. My students did well because they studied	©	Ð	©	Ð	©	¥H493814		
My students did well because they put in a lot of effort.	0	Ð	Ø	0	θ	VH493815	and were prepared. b. My students did well because they put in a	Ø	Ð	Q	Ø	Ð	VE(493815		
My students did well because they always do well on tests.	۵	Ð	Q	0	Ð	VH493816	lot of effort. c. My students did well because they always	Ø	Ð	©	۵	Ð	VH493816		
d. My students did well because I taught the concepts well.	0	Ð	Ø	٩	θ	VH493817	do well on tests. d. My students did well because I taught the	@	Ð	O	Ø	Ð	VH493817		
 My students did well because they guessed well on the test. 	Ø	Ð	Ø	۵	θ	V71453818	e. My students did well because they guessed	Ø	Ð	Q	Ð	Ð	VH493818		
							well on the test.								
 f. My students did well because they are just good at social studies. 017 Grade 8) 	Ø	Ð	Ø	۵	Ð	¥1448381.9	 f. My students did well because they are just good at social studies. 	۵	Ð	Q	Ø	¢	V[{493819		
because they are just	class this year, ing? Select one Never or	, how often do circle in each Once in a	o you use each h row.	of the follow	ing Always or	V144938 [9 V14493756	f. My students did well because they are just			¢	Φ	Φ	V[1473819	D	This item was dropped to reduce burder
because they are just good at social studies. 017 Grade 8) 6. In your social studies strategies when teach	class this year, ing? Select one	, how often do circle in eacl	you use each		ing		f. My students did well because they are just good at social studies.			¢	Ø	Ð	V1445819	D	dropped to reduce burder and due to the
because they are just good at social studies. 017 Grade 8) 6. In your social studies strategies when teach 1 teach social studies as a whole-class activity.	class this year, ing? Select one Never or	, how often do circle in each Once in a	o you use each h row.	of the follow	ing Always or almost		f. My students did well because they are just good at social studies.			¢	Ø	Φ	Y(1483812	D	dropped to reduce burder and due to the inapplicability
because they are just good at social studies. 017 Grade 8) 6. In your social studies strategies when teach . I teach social studies as a whole-class activity.	class this year, ing? Select one Never or hardly ever	, how often de circle in eacl Once in a while) you use each h row. Sometimes	of the follow Often	ing Always or almost always	VH401756	f. My students did well because they are just good at social studies.			¢	Ø	Ð	V(1483819	D	dropped to reduce burded and due to the inapplicability some cases (effective subitem "b") for
because they are just good at social studies. 017 Grade 8) 6. In your social studies strategies when teach 4. I teach social studies as a whole-class activity. 5. I create student groups with the same	class this year, ing? Select one Never or hardly ever Ø	, how often de circle in eacl Once in a while	o you use each h row. Sometimes	of the follow Often Ø	Always or almost always D	VB493356	f. My students did well because they are just good at social studies.			¢	Ø	Ð	VILLESSIS	D	dropped to reduce burder

+ This column indicates whether the item was dropped (D), added (A), revised (R), or there was no change (NC).

Previous item							2018 item	D/A/ R/NC+	Rationale
 When you teach soci following? Select on 	ial studies to e circle in eac	your eighth-gr. ch row.	ade class, do y	you do any of	the	VH493747	N/A	D	This item was dropped to
	Not at all	1 Very little	Some	Quite a bi	t A lot	et in ut			reduce burden
a. Use a different set of methods in teaching some students	Ø	Ð	٥	Ø	θ	VH493748			and given that there was little
 Supplement the regular course curriculum with additional material for some students 	r QD	Ð	Ø	Ø	θ	V33493749			variation in the response
 c. Pace my teaching differently for some students d. Have some students engage in different 	Ø	Ð	ø	Φ	θ	VH49375D			patterns across subitems. Ove
 d. Have some students engage in different classroom activities 	Ø	Ð	© © © 111		VH493751			60% responded "Some" and	
2017 Grade 8)									"Quite a bit" fo all subitems.
0. How often do you use t class? Select one circle	he following in each row.	resources to te	each social stu	udies in this		VH493437	N/A	D	This item was dropped to
	Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day				reduce burden
 Quantitative data (such as that on maps, charts, or graphs) 	0	Ð	©	Ð	Ð	VH493442			
	۵	Ð	©	۵	Ð	VH493445			
 Materials from other subject areas 				·		No. 19			
 Materials from other subject areas Activities or assignments designed by social studies organizations or experts 	Ø	Ð	©	Ø	Ð	VH493448			
subject areas Activities or assignments designed by social studies organizations or experts 2017 Grade 8)									
subject areas Activities or assignments designed by social studies organizations or experts 2017 Grade 8)	u use each of elect one circ	the following cle in each row	technologica v.	l resources fo	r social	V14435448 V14435480	N/A	D	This item was dropped to
subject areas Activities or assignments designed by social studies organizations or experts 2017 Grade 8) 11. To what extent do you studies instruction? S	u use each of	the following	technologica		r social	VH493480	N/A	D	dropped to reduce burden
subject areas Activities or assignments designed by social studies organizations or experts 2017 Grade 8) 11. To what extent do you studies instruction? S a. Desktop or laptop computer(s)	u use each of elect one circ	the following cle in each row	technologica v.	l resources for	r social		N/A	D	dropped to reduce burden and to create
subject areas 2. Activities or assignments designed by social studies organizations or experts 2017 Grade 8) 11. To what extent do you studies instruction? S a. Desktop or laptop computer(s) b. Tablet(s) (e.g., Surface Pro, iPad, or Kindle Fire)	u use each of elect one circ Not at all	the following cle in each row Very little	technologica v. Some	l resources fo	r social t A lot	VH493480	N/A	D	dropped to reduce burden
subject areas Activities or assignments designed by social studies organizations or experts 2017 Grade 8) 11. To what extent do you studies instruction? S a. Desktop or laptop computer(s) b. Tablet(s) (e.g., Surface Pro, IPad, or Kindle	u use each of elect one circ Not at all Ø	the following cle in each row Very little D	technologica v. Some ©	l resources for Quite a bi	t A lot	VH493480 VH493481	N/A	D	dropped to reduce burden and to create content
subject areas 2. Activities or assignments designed by social studies organizations or experts 2017 Grade 8) 11. To what extent do you studies instruction? S a. Desktop or laptop computer(s) b. Tablet(s) (e.g., Surface Pro, iPad, or Kindle Fire) c. Online content (e.g., online software, podcasts, or streaming	u use each of elect one circ Not at all @ @	the following cle in each row Very little D	technologica v. Some ©	l resources for Quite a bi @ @	r social t A lot D	VH493480 VH493481	N/A	D	dropped to reduce burden and to create content consistency

+ This column indicates whether the item was dropped (D), added (A), revised (R), or there was no change (NC).

revious item	l							2018 item		D/A/ R/NC+	Rationale
 To what extent are in each of the follo one circle in each 	owing classes	or other dig s in school (cital devices a (e.g., a classro	vailable fo oom or a co	or students to omputer lab)?	use Select	VH493456	N/A	D	C	This item was dropped to reduce burden
	Not applicable	Not at all	Very little	Some	Quite a bit	A lot					and given that
Civics and/or United States government	Ф	Ð	©	Ø	Ð	Ø	VH493458				similar item is
Geography	00	Ð	O	Ø	Ð	Ð	V16493459				already include
United States history	Ø	Ð	©	۵	Φ	Ð	VH493460				in Core.
017 Grade 8	1000	rs of homew	vork a dav do	vou assig	n for social		VH493546	N/A	D	C	This item was
studies?	, many nou	is or nonnew	tork a uay uu	you assig	n tor social						dropped to
D Less than 30 m	ninutes a day										maintain
											consistency
③ 30 minutes up		lay									-
③ 30 minutes up③ 1 up to 2 hours	s a day	iay									-
 ③ 30 minutes up ③ 1 up to 2 hours ④ 2 up to 3 hours 	s a day s a day	iay									-
 30 minutes up (1 up to 2 hours 2 up to 3 hours 3 up to 4 hours 	s a day s a day s a day	lay									-
 ③ 30 minutes up ③ 1 up to 2 hours ④ 2 up to 3 hours 	s a day s a day s a day	lay									
 30 minutes up (1 up to 2 hours 2 up to 3 hours 3 up to 4 hours 	s a day s a day s a day ours a day	lay									across subjects
 30 minutes up 1 up to 2 hours 2 up to 3 hours 3 up to 4 hours More than 4 hours 	s a day s a day s a day ours a day S) tudies class tl	his year, hov	w much have ne circle in ea	you empha ich row.	asized the follo	owing	VH493537	N/A	D)	across subjects This item was dropped to
 30 minutes up (1 up to 2 hours 2 up to 3 hours 3 up to 4 hours More than 4 ho 	s a day s a day s a day ours a day burtes class the states histo Not	his year, hov ry? Select or	ne circle in ea	you empha ich row. Some	usized the follo Quite a bit	owing A lot	178449557	N/A	D)	across subjects This item was dropped to reduce burden
 30 minutes up (1 up to 2 hours 2 up to 3 hours 3 up to 4 hours More than 4 ho 017 Grade 8 28. In your social stropics in United a. Change and contil in United States democracy (ideas, institutions, even key figures, and	s a day s a day s a day ours a day s day ours a day s a da	his year, hov ry? Select or	ne circle in ea	ich row.		- 1 ·	V14493557	N/A	D	D	across subjects This item was dropped to reduce burden and because there was no parallel item in
 30 minutes up (1 up to 2 hours 2 up to 3 hours 3 up to 4 hours More than 4 ho 017 Grade 8 28. In your social structures in United a. Change and contrinin United States democracy (ideas, institutions, even	s a day s a day s a day ours a day cudies class the d States histo	his year, hov ry? Select or at all Ve	ne circle in ea	Some	Quite a bit	A lot	V8493557 V8493558 V31493559	N/A	D	D	across subjects This item was dropped to reduce burden and because there was no
 30 minutes up (1 up to 2 hours 2 up to 3 hours 3 up to 4 hours More than 4 ho 017 Grade 8 28. In your social sut topics in United 28. Change and contributions even (deas, institutions, even key figures, and controversies) b. The gathering and interactions of peoples, cultures, cultures.	s a day s a day s a day ours a day s day ours a day sours a day so	his year, hov y? Select or at all Ve	ne circle in ea	Some ©	Quite a bit	A lot	V11483558	N/A	D)	across subjects This item was dropped to reduce burden and because there was no parallel item in
 30 minutes up (1 up to 2 hours 2 up to 3 hours 3 up to 4 hours More than 4 ho 2017 Grade 8 28. In your social stropics in United States democracy (ideas, institutions, even key figures, and controversies) b. The gathering and controversies) c. Technological cha and their relation society, ideas.	s a day s a day s a day s a day ours a day s a	his year, hov ry? Select or at all Ve	Try little Try little Try	© ©	Quîte a bit	A lot ©	V11483558	N/A	D	D	across subjects This item was dropped to reduce burden and because there was no parallel item in

Previous item						2018 item	D/A/ R/NC+	Rationale
32. In your school, how sever	e is each problem?	Select one cire	cle in each row.		VH262652	N/A	D	This item was dropped given
	Not a problem	Minor problem	Moderate problem	Serious problem				that it is alread
a. The school building needs significant repair.	۵	Ф	©	٥	VH262653			a part of the
b. Classrooms are overcrowded.	۵	Ð	©	۵	VH262654			Core.
c. Teachers have too many teaching hours.	۵	Φ	©	Ø	VH262655			
 d. Teachers do not have adequate workspace (e.g., for preparation, collaboration, or meeting with students). 	Ø	Φ	Q	Φ	VH262656			
 Teachers do not have adequate instructional materials and supplies. 	Ø	Ð	ø	۵	VH262657			

Appendix I-2i: 2018 Operational Grade 8 Social Studies (COI)

- I teach all or most subjects, including social studies.
- The only subject I teach is social studies.
- © We team teach, and I have primary responsibility for teaching social studies.
- ◎ I have primary responsibility for teaching civics and/or United States government.
- © I have primary responsibility for teaching geography.
- © I have primary responsibility for teaching United States history.
- 2. How many students are in this class? Enter the number of students. If you teach more than one eighth-grade social studies class, please enter the number of students in the class you are using as the basis for answering this survey.

VH566810

VH588602

3. In a typical week, about how much time in total do you spend with this class on social studies instruction?

hours and minutes per week

- **4.** Which best describes how social studies instruction in your school is organized?
 - Social studies is taught primarily as a discrete subject with little or no integration with instruction in other subjects.
 - Some social studies instruction is integrated with other subjects, and some social studies instruction is presented as a discrete subject.
 - © Social studies lessons are primarily integrated with instruction in other subjects.

	None	1–10%	11-40%	41–60%	61–90%	More than 90%	
a. Civics and/or United States government	Ø	B	0	Ø	Ē	Ð	VH493389
b. Geography	A	®	Ô	Ø	Ē	Ē	VH493390
c. United States history	Ø	B	0	0	Ē	Ē	VH493391
d. Other social studies subject (Please specify):	8	ß	Q	Ø	Ē	Ē	VH493392

5. During what percentage of social studies instruction time in this class is your primary focus on each of the following subjects? Select **one** circle in each row.

6. During this school year, how often do you do the following as part of social studies instruction with this class? Select **one** circle in each row.

		Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	
a.	Have students read material from a social studies textbook	Ø	®	O	Ø	¢	VH493504
b.	Have students read extra material about social studies not in the regular textbook (e.g., newspapers, magazines, or online sources)	0	®	Ø	Ø	¢	VH493506
c.	Have students conduct research about social studies topics (e.g., online, in a library, or through interviews)	0	®	Ø	Ø	¢	VH493509
d.	Have students use primary sources (e.g., letters, diaries, photographs, films, or essays written by people from the past)	0	®	O	Ø	¢	VH493512

VH493388

7. During this school year so far, how often have you done each of the following as part of social studies instruction with this class? Select **one** circle in each row.

		Never	Once	Two or three times	Four or five times	More than five times	
	Had students give class presentations on social studies topics	0	®	O	Ø	Ē	VH493518
b.	Had students write about their opinion on a problem or issue (e.g., in a letter, e-mail, or blog post)	0	®	O	Ø	Ē	VH493523
c.	Had students take part in debates or panel discussions	6	®	O	Ø	Ē	VH493524
d.	Had students take part in role-playing, mock trials, or dramas about social studies topics	0	®	O	Ø	Ē	VH493525

computers or other digital devices to do the following? Select one circle in each row.									
	Never or hardly ever	Once in a while	Sometimes	Often	Always or almost always				
a. Use the Internet to look for evidence or sources (e.g., text documents	Ø	₿	C	©	Ē				

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documents,

geographer, or historian) c. Create reports or

video clips)

graphs

media)

or films)

photographic images,

b. Play games or use apps in which students play a role (e.g., an explorer,

> projects about social studies using different forms of media (e.g., a

> slide presentation that combines text and

d. Organize information about social studies topics by creating

tables, charts, or

e. Participate in online discussions about social studies on a

website (e.g., in forums or social

8. When students in this class work on social studies, to what extent do they use computers or other digital devices to do the following? Select **one** circle in each row.

VH493491

VH728046

VH493494

VH493496

VH493498

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		Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	
	Tests with multiple-choice, true/ false, or matching type questions	0	®	Q	Ø	C	VH493530
	Short written responses (e.g., a paragraph or less)	Ø	ß	Ø	0	¢	VH739504
	Long written responses (e.g., several paragraphs)	0	®	Ø	Ø	Ē	VH493540
	Responses to questions based on information from several sources (e.g., letters, cartoons, or maps)	0	6	Q	Ø	¢	VH493541
e.	Computer-based or online assessments	A	B	O	Ø	Ē	VH493544

9. In your social studies class this year, how often do you use each of the following to assess student progress in social studies? Select **one** circle in each row.

10. When giving assessments in your social studies class this year, how often do you use the assessment results to do each of the following? Select **one** circle in each row.

	Never or hardly ever	Less than half of the time	About half of the time	More than half of the time	Always or almost always	
a. Regularly discuss each student's current level of performance with them		6	O	Ø	Ē	VH493774
b. Set goals for specific progress the student would like to make	@	®	O	Ø	Ē	VH493775
c. Discuss progress the student has made toward goals previously set	۵	®	O	Ø	¢	VH493777
d. Determine how to adjust your teaching strategies to meet the student's current learning needs	۵	6	©	Ø	Ē	VH493778
	1	5	<u> </u>	<u> </u>	409	

VH493539

11. Do you give instruction in civics and/or United States government to your students?

Yes
 Yes

(B) No \rightarrow Questions 12, 13, and 14 are not applicable and will be skipped.

12. In your social studies class this year, how much have you emphasized the following topics in civics and/or United States government? Select **one** circle in each row.

		Never or hardly ever	Less than half of the lessons	About half of the lessons	More than half of the lessons	All or almost all of the lessons	
	Political parties, elections, and voting	A	B	0	Ø	Ē	VH728261
g tl tl in	Other countries' governments (e.g., heir structure, how hey are run, or nteractions with the Jnited States)	0	ഀ	Ø	Φ	¢	VH728259
O L B	nternational organizations (e.g., the Jnited Nations, World Bank, or World Health Organization)	0	₿	Q	Ø	¢	VH728260
	Current political and ocial issues	8	B	O	Ø	Ē	VH728257

VH566822

		Not at all	Very little	Some	Quite a bit	A lot	
a.	Examining the roles and functions of the three branches of the United States government	0	®	Ø	Θ	Ē	VH493645
b.	Examining the rights and responsibilities of United States citizens	(9	ß	Ø	Ø	Ē	VH493646
c.	Examining how the United States influences and is influenced by events in other countries	0	(9)	Ø	Θ	Ē	VH493647
d.	Comparing the roles and responsibilities of local, state, and national governments in the United States	0	(9)	Ø	0	¢	VH493648
e.	Examining why it is important to pay attention to the political process and government	0	ഀ	Ø	Ø	¢	VH493650
f.	Examining why it is important for individuals to participate in the political process and government	9	℗	Ø	Ø	¢	VH493651
g.	Discussing the political process and government with others	0	ß	O	Ø	¢	VH493658

13. In your social studies class this school year, how much have you emphasized teaching your students each of the following? Select **one** circle in each row.

- 14. During the past two years, have you attended professional development programs (e.g., training sessions and workshops, including online classes) aimed at improving your ability to teach civics and/or United States government? Select **all** that apply.
 - Tes, I have attended programs that are required by my school or district.
 - (B) Yes, I have attended programs that are not required by my school or district.
 - © No

VH493705

- **15.** Do you give instruction in geography to your students?
 - (A) Yes
 - [®] No →Questions 16, 17, and 18 are not applicable and will be skipped.
- **16.** In your social studies class this year, how much have you emphasized the following topics in geography? Select **one** circle in each row.

		Not at all	Very little	Some	Quite a bit	A lot	
a.	Countries and cultures	A	®	Ô	O	Ē	VH493708
b.	Environmental issues (e.g., pollution, recycling, climate change, or genetically modified food)	0	ഀ	Ø	Ø	Ē	VH493709
c.	Basic concepts of physical and human geography	8	B	Ø	Ø	Ē	VH493710
d.	Variation among regions and how people interact across space via communication, transportation, or trade	0	(9	O	Ø	Ē	VH493711

		Not at all	Very little	Some	Quite a bit	A lot	
a.	Using a map (e.g., a road map, MapQuest, or Google Maps), atlas, or globe to locate different cities, countries, and continents	۵	©	©	Ø	Ē	VH493726
b.	Examining how natural features of Earth (e.g., rivers or mountains) are formed	Ø	®	©	Ø	¢	VH728062
c.	Measuring distances and the sizes of areas on maps	Ø	ß	O	Ø	Ē	VH493729
d.	Examining what makes different regions in the United States unique	Ø	ß	0	Ø	Ē	VH493730
e.	Examining why groups of people migrate to different parts of the world	Ø	ß	Ø	Ø	¢	VH493736
f.	Examining how humans affect the natural environment	Ø	ß	O	Ø	Ē	VH493737
g.	Examining how humans adjust to the natural environment	Ø	®	O	Ø	Ē	VH603016
h.	Examining why different food and energy resources are traded globally	۵	©	O	Ø	¢	VH493740
i.	Using geographic information (e.g., maps, satellite images, or population data) to answer a question or solve a problem	۵	©	©	Ø	Ē	VH493743

17. In your social studies class this school year, how much have you emphasized teaching your students each of the following? Select **one** circle in each row.

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- **18.** During the past two years, have you attended professional development programs (e.g., training sessions and workshops, including online classes) aimed at improving your ability to teach geography? Select **all** that apply.
 - Type: Yes, I have attended programs that are required by my school or district.
 - (1) Yes, I have attended programs that are not required by my school or district.
 - © No

VH566823

- 19. Do you give instruction in United States history to your students?
 - (D) Yes
 - O No \rightarrow Questions 20, 21, and 22 are not applicable and will be skipped.

		Not at all	Very little	Some	Quite a bit	A lot	
a.	The period before 1815 (e.g., age of exploration, colonization, settlement, or American Revolution)	0	0	Θ	Ø	Ē	VH493552
b.	1815 to 1865 (e.g., expansion, reform, sectionalism, or the Civil War)	0	ഀ	0	Ø	¢	VH493553
	1865 to 1945 (e.g., Reconstruction, industrial growth, United States role in world events, immigration, the Great Depression, or the First and Second World Wars)	0	ഀ	0	Ø	œ	VH493554
	1945 to the present (e.g., the Cold War, Civil Rights movement, women's rights movement, Vietnam War, or environmental movement)	0	®	Q	Ø	Ē	VH493556

20. In your social studies class this year, how much have you emphasized the following periods of United States history? Select **one** circle in each row.

		Not at all	Very little	Some	Quite a bit	A lot	
a.	Examining the causes and effects of important events in United States history	Ø	®	Ø	Ø	Ē	VH493580
b.	Examining how time periods in United States history are similar or different	0	©	Ø	Ø	Ē	VH493582
c.	Judging whether information from a source (e.g., text, visual graphics, video, or audio) is accurate	Ø	®	Ø	Ø	Ē	VH493583
d.	Analyzing the relationship between two historical events	8	ß	0	Ø	e	VH493587
e.	Comparing and evaluating different points of view about the past (e.g., different ideas about what caused the Civil War)	0	®	0	Ø	Ē	VH493589
f.	Coming up with research questions about why or how something happened in the past (e.g., what were the causes of the Great Depression)	0	®	Ø	Ø	Ē	VH493590
g.	Taking and defending a position about a historical issue (e.g., how changes in transportation have affected the United States economy)	0	®	Q	Ø	Ē	VH493591

21. In your social studies class this school year, how much have you emphasized teaching your students each of the following? Select **one** circle in each row.

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22. During the past two years, have you attended professional development programs (e.g., training sessions and workshops, including online classes) aimed at improving your ability to teach history? Select **all** that apply.

- Type: Yes, I have attended programs that are required by my school or district.
- [®] Yes, I have attended programs that are not required by my school or district.
- © No

23. Suppose your students did very well on their last social studies test. How likely do you think each of the following explanations is in this situation? Select **one** circle in each row.

		Not at all likely	Not likely	Somewhat likely	Quite likely	Extremely likely	
a.	My students did well because they studied and were prepared.	0	ß	Ø	Ø	Ē	VH493814
b.	My students did well because they put in a lot of effort.	(9	ß	Ø	Θ	Ē	VH493815
c.	My students did well because they always do well on tests.	(9)	ß	Ø	Ø	Ē	VH493816
d.	My students did well because I taught the concepts well.	(9)	ß	Ø	0	Ē	VH493817
e.	My students did well because they guessed well on the test.	0	ß	Ø	Ø	Ē	VH493818
f.	My students did well because they are just good at social studies.	0	ß	Ø	Ø	Ē	VH493819

Appendix I-2j: Summary of Revisions 2017-2018 NTPS Teacher Questionnaire

*Note: This is the same table submitted to OMB by NTPS for their clearance under OMB #1850-0598 v.19

Questionnaire	Item	Update
NTPS-4A	Front Cover	[Old]: "(ESRA, 20 U.S.C. § 9543)."
(Teacher)		[New]: "(ESRA 2002, 20 U.S.C. §9543)."
	item 1-1 (on 3 rd and 4 th options)	[Old]: "(i.e.,"
		[New]: "(i.e."
	item 1-6	Inserted "During the" to beginning of question stem.
	Item 2-11	[Old]: "hours"
		[New]: "minutes"
	Page 19, Code 265, 266, 267	Philosophy was moved to code 266; Religious studies, theology, or
		divinity was moved to 267
	Item 5-1	Inserted "During the" to beginning of question stem.
	Item 5-1(1)	[Old]: "LAST school year,"
		[New]: "(1) During the LAST school year (2016-17),"
	Item 6-7d	Inserted "in" between "about" and "my"

List of Updates to NTPS 2017-18 Questionnaires from March 2017 version to FINAL.

Appendix I-2k: 2017-2018 NTPS Teacher Questionnaire

Conducted by: U.S. DEPARTMENT OF EDUCATION NATIONAL CENTER FOR EDUCATION STATISTICS OMB No. 1850-0598 Approval Expires 06/30/2020 Collected by: U.S. DEPARTMENT OF COMMERCE Economics and Statistics Administration U.S. CENSUS BUREAU

TEACHER QUESTIONNAIRE NATIONAL TEACHER AND PRINCIPAL SURVEY 2017-18 SCHOOL YEAR



THIS SURVEY HAS BEEN ENDORSED BY:

American Association of School Administrators American Association of School Librarians American Federation of Teachers American Montessori Society American School Counselors Association Association for Middle Level Education (formerly National Middle School Association) Association for Supervision and Curriculum Development Association of American Educators Council of Chief State School Officers Council of the Great City Schools National Association of Elementary School Principals National Parent Teacher Association

Please return your completed questionnaire in the pre-addressed, postage-paid envelope or mail it to:

U.S. CENSUS BUREAU ATTN: DCB/PCSPU, BUILDING 60A 1201 E. 10TH STREET JEFFERSONVILLE, IN 47132-0001



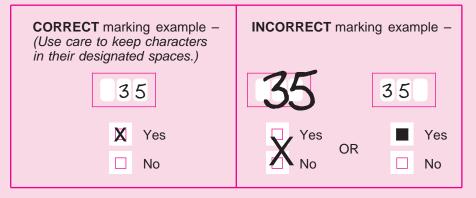
The National Center for Education Statistics (NCES), within the U.S. Department of Education, is authorized to conduct this survey by the Education Sciences Reform Act of 2002 (ESRA 2002, 20 U.S.C. §9543).

FORM **NTPS-4A** (07-10-2017)



INSTRUCTIONS AND DEFINITIONS

The data you enter on this form will be captured through the use of imaging technology. Please print all information clearly in ordinary characters, using a **blue or black ballpoint pen**.



- **a.** If you are the teacher named on the cover page label, please complete the questionnaire.
- b. Please do not write any comments near the answer boxes.
- **c.** If you are unsure about how to answer a question, please give the best answer you can rather than leaving it blank.
- d. If you have any questions, call the U.S. Census Bureau at 1-888-595-1338. Someone will be available to take your call Monday through Friday, between 8:00 a.m. and 8:00 p.m. (Eastern Time). The U.S. Census Bureau is also available to answer your questions via e-mail at: ntps@census.gov

Teachers who teach in multiple schools: Please respond to questions as they apply to the school where you received this questionnaire.

Grades K-12 and comparable ungraded levels. This survey focuses on schools offering any of grades K-12 or comparable ungraded levels at the elementary, middle, or secondary level. The term "ungraded levels" refers to schools that classify students by an alternative means other than particular grade levels (e.g., Kindergarten, 1st grade, 2nd grade, etc.).

All of the information you provide may be used only for statistical purposes and may not be disclosed, or used, in identifiable form for any other purpose except as required by law (20 U.S.C. §9573 and 6 U.S.C. §151).

Paperwork Burden Statement

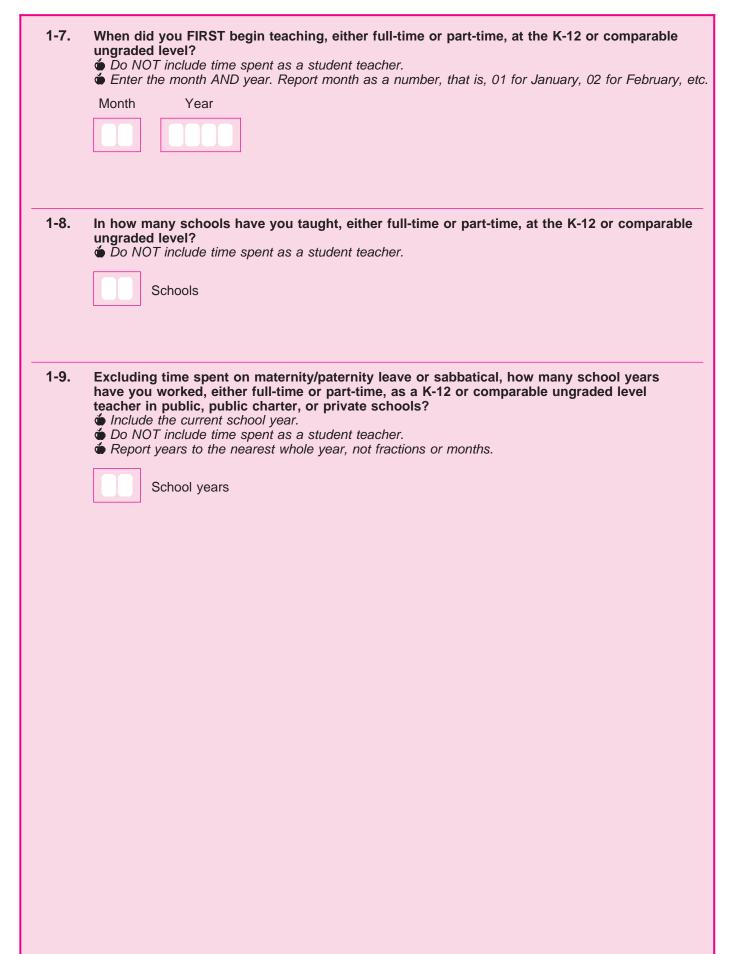
According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this voluntary information collection is 1850-0598. The time required to complete this information collection is estimated to average 40 minutes per response, including the time to review instructions, search existing data resources, gather the data needed, and complete and review the information collection. If you have any comments concerning the accuracy of the time estimate, suggestions for improving this collection, or comments or concerns about the contents or the status of your individual submission of this questionnaire, please e-mail: ntps@census.gov, or write directly to: National Teacher and Principal Survey (NTPS), National Center for Education Statistics, Potomac Center Plaza, 550 12th Street, SW, Room 4014, Washington, DC 20202.

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1. GE	NERAL INFORMATION
1-1.	How do you classify your position at THIS school, that is, the activity at which you spend most of your time during this school year?
	1 Regular full-time teacher (in any of grades K-12 or comparable ungraded levels)
	² Regular part-time teacher (in any of grades K-12 or comparable ungraded levels)
	³ Itinerant teacher (i.e. your assignment requires you to provide instruction at more than one school)
	⁴ Long-term substitute (i.e. your assignment requires that you fill the role of a regular teacher on a long-term basis, but you are still considered a substitute)
	5 Short-term substitute
	6 Student teacher
	7
	8 Administrator (e.g., principal, assistant principal, director, school head)
	9 Library media specialist or Librarian
	10 Other professional staff (e.g., counselor, curriculum coordinator, social worker)
	11 Support staff (e.g., secretary)
1-2.	Which box did you mark in item 1-1 above?
	Box $1 \rightarrow$ GO TO item 1-5 on page 4.
	Box 2, 3, or $4 \rightarrow$ GO TO item 1-4 on page 4.
	Box 5, 6, or 7 \rightarrow Please STOP now and return this questionnaire to the U.S. Census Bureau. Thank you for your time.
↓ ·	- D Box 8, 9, 10, or 11
1-3.	Do you TEACH one or more classes at THIS school, at least once per week, in any of grades K-12 or comparable ungraded levels?
	 If you work as a library media specialist or librarian at this school, do not include classes in which you teach students how to use the library (e.g., library skills or library research). If you teach a particular specialty either within or outside of a regular classroom (e.g., reading specialist, special education teacher, English as a Second Language teacher), include that time as a regularly scheduled class.
	$\Box \text{Yes} \rightarrow \text{GO TO item 1-4 on page 4.}$
	$\square No \rightarrow Please STOP now and return this questionnaire to the U.S. Census Bureau. Thank you for your time.$



1-4.	leve	v much time do you work as a TEACHER in any of grades K-12 or comparable ungraded els at THIS school? Mark (X) only one box.							
		Full time							
		3/4 time or more, but less than full-time							
		1/2 time or more, but less than 3/4 time							
		1/4 time or more, but less than 1/2 time							
		Less than 1/4 time							
		I do not teach any of grades K-12 or comparable ungraded levels → Please STOP now and return this questionnaire to the U.S. Census Bureau. Thank you for your time.							
1-5.	 When did you begin teaching, either full-time or part-time, at THIS school? Do NOT include time spent as a student teacher. Enter the month AND year. Report month as a number, that is, 01 for January, 02 for February, etc. Month Year 								
1-6.	 During the LAST school year (2016-17), what was your MAIN activity? Mark (X) only ONE box which best applies to how you spent the MOST time LAST school year. If you were a substitute or itinerant teacher, please mark (X) the box which best applies to your MAIN activity LAST school year. 								
		Teaching in this school							
		Teaching in another public elementary, middle, or secondary school IN THIS SCHOOL SYSTEM							
		Teaching in a public elementary, middle, or secondary school IN A DIFFERENT SCHOOL SYSTEM IN THIS STATE							
		Teaching in a public elementary, middle, or secondary school IN ANOTHER STATE							
		Teaching in a PRIVATE elementary, middle, or secondary school							
		Teaching in a preschool							
		Teaching at a college or university							
		Student at a college or university							
		Working in a position in the field of education, but not as a teacher							
		Working in a position outside the field of education							
		On leave (e.g., maternity or paternity leave, disability leave, sabbatical)							
		Caring for family members, but not on leave (e.g., homemaking, childrearing)							
		Military service							
		Unemployed and seeking work							
		Retired from another job							
		Other – please specify →							
		FORM NTPS-4A							



	Prekindergarten	🗆 Yes	No	
	Kindergarten	Yes	□ No	
	1st	Yes	No	
	2nd	Yes	□ No	
	3rd	🗆 Yes	□ No	
	4th	🗆 Yes	□ No	
	5th	Yes	□ No	
	6th	Yes	□ No	_
	7th	Yes	No	_
	8th	Yes	No	_
	9th	Yes	No	_
	10th	Yes	No	_
	11th	Yes	No	_
	12th	Yes	No	_
	Ungraded	Yes	No	
2-2.	Of all the students you Program (IEP) because Do NOT include stude If none, please mark (None or	they have disab nts who have onl	ilities or are	nany have an Individualized Education special education students?

2-3.	Of all the students you teach at THIS school, how many are of limited-English proficiency (LEP) or are English-language learners (ELLs)? (Students of limited-English proficiency [LEP] or English-language learners [ELLs] are those whose native or dominant language is other than English and who have sufficient difficulty speaking, reading, writing, or understanding the English language as to deny them the opportunity to learn successfully in an English-speaking-only classroom.) If none, please mark (X) the box. None Or		
2-4.	Using Table 1 on page 10, this school year, in what subject is your MAIN teach at THIS school, that is, the subject matter in which you teach the most classes at Record one of the main teaching assignment codes and labels from Table 1 on p Main Teaching Assignment Code	s?	
2-5.	Are you intentionally assigned to instruct the same group of students for more (e.g., looping)? Yes No		
2-6a.	During any of your classes, do you have students use instructional software t or all of their lessons? Yes No → GO TO item 2-7 on page 8. Does any of the instructional software the students use AUTOMATICALLY AD of instruction to an individual student's performance? Yes No		

2-7.	Which statement best describes the way YOUR classes at THIS school are organized? Mark (X) only one box.
	You instruct several classes of different students most or all of the day in one or more subjects (sometimes called Departmentalized Instruction).
	² You are an elementary school teacher who teaches only one subject to different classes of students (sometimes called an Elementary Subject Specialist).
	³ You instruct the same group of students all or most of the day in multiple subjects (sometimes called a Self-Contained Class).
	You are one of two or more teachers, in the same class, at the same time, and are jointly responsible for teaching the same group of students all or most of the day (sometimes called Team Teaching).
	 You instruct a small number of selected students released from or in their regular classes in specific skills or to address specific needs (sometimes called a "Pull-Out" Class or "Push-In" Instruction).
2-8.	Which box did you mark in item 2-7 above?
	Box 1 or 2 \rightarrow GO TO item 2-12 on page 11. Box 3 or 4
	Box 3 of 4 Box 5 \rightarrow GO TO item 2-10 below.
2-9.	 During your most recent FULL WEEK of teaching at THIS school, what is the total number of students enrolled in the class you taught? If you teach more than one self-contained class, report the number from your class with the most students. Students → GO TO item 2-11 on page 9.
2-10.	During your most recent FULL WEEK of teaching at THIS school, what is the average number
	of students you taught at any one time? Students
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	FORM NTPS-4A

2-11.	ring your most recent FULL WEEK of teaching, approximately how many minutes did YOU and teaching each of the following subjects at THIS school? If you taught two or more subjects at the same time, apportion the time to each subject the best you can. If you did not teach a particular subject during the week, mark (X) the "None" box.
	English, reading, or language arts (including reading and writing)
	Minutes per day Days per week None or for
	Minutes per day Days per week
	Arithmetic or mathematics
	Minutes per day Days per week
	None or for
	Social studies or history Minutes per day Days per week
	None or for
	Science
	Minutes per day Days per week None or
	O TO Section 3 on page 12.
	FORM NTPS-4A

Table 1. Main Teaching Assignment and Subject-matter Codes and LabelsFor Questions 2-4 and 2-13			
General Education Codes and Labels			
Elementary Education Special Education			
101 Early childhood or pre-K, general	110 Special education, any		
102 Elementary grades, general			
103 Middle grades, general			
Subject-matter Spe	cific Codes and Labels		
Arts and Music	Social Sciences		
141 Art or arts and crafts	220 Social studies, general		
142 Art history	221 Anthropology		
143 Dance	222 Area or ethnic studies (excluding		
144 Drama or theater	Native American studies)		
145 Music	225 Economics		
English and Language Arts	226 Geography		
151 Communications	227 Government or civics		
152 Composition	228 History		
153 English	231 Native American studies		
154 Journalism	232 Political Science		
155 Language arts	233 Psychology		
157 Literature or literary criticism 158 Reading	234 Sociology 235 Other social sciences		
158 Reading 159 Speech	200 Other Social Sciences		
100 Opeech	Career or Technical Education		
English as a Second Language (ESL)	241 Agriculture and natural resources		
160 ESL or bilingual education: General	242 Business management		
161 ESL or bilingual education: Spanish	243 Business support		
162 ESL or bilingual education: Other	244 Marketing and distribution		
languages	245 Healthcare occupations		
Foreign Languages	246 Construction trades, engineering, or		
171 French	science technologies (including CADD		
172 German	and drafting)		
173 Latin	247 Mechanics and repair		
174 Spanish	249 Manufacturing or precision production		
175 Other foreign language	(electronics, metalwork, textiles, etc.) 250 Communications and related technologies		
Health Education	250 Communications and related technologies (including design, graphics, or printing; not		
181 Health education	including computer science)		
182 Physical education	253 Personal and public services		
Mathematics and Computer Science	(including culinary arts, cosmetology, child		
191 Algebra I	care, social work, protective services,		
192 Algebra II	custodial services, and interior design)		
193 Algebra III	254 Family and consumer sciences education		
194 Basic and general mathematics	255 Industrial arts or technology education		
195 Business and applied math	256 Other career or technical education		
196 Calculus and pre-calculus	Minoullenoous		
197 Computer science	Miscellaneous		
198 Geometry	262 Driver education		
199 Pre-algebra200 Statistics and probability	264 Library or information science 265 Military science or ROTC		
200 Statistics and probability 201 Trigonometry	265 Military science or ROTC 266 Philosophy		
ö	267 Religious studies, theology, or divinity		
Natural Sciences			
210 Science, general	Other		
211 Biology or life sciences	268 Other		
212 Chemistry 213 Earth sciences			
213 Earth sciences 214 Engineering			
214 Engineering 215 Integrated science			
216 Physical sciences			
217 Physics			
218 Other natural sciences			

NOTE: Items 2-12 and 2-13 are for teachers who marked box 1 or 2 for item 2-7 on page 8. If you marked box 3, 4, or 5 for item $2-7 \rightarrow GO$ TO Section 3 on page 12.					
	If you marked bo	for 3, 4, or 5 for item 2-7 \rightarrow GO	TO Section 3 on p	age 12.	
2-12.	 2-12. How many separate class periods or sections do you currently teach at THIS school? Do NOT include homeroom periods or study halls. (Example: If you teach 2 classes or sections of chemistry I, a class or section of physics I, and a class or section of physics II, you would report 04 classes or sections.) 				
	Numb	er of classes or sections			
 2-13. Using Table 1 on page 10, for EACH class period or section that you reported in item 2-12, record the subject-matter code, subject-matter label, grade level code, and number of students. If you teach a class or section with more than one grade level, list the grade level with the most students in column C and record the total number of students in column D. If you reported more than 10 periods or sections in item 2-12, report on only 10 of those periods or sections. 					
	A. ject-Matter Code from Table 1	B. Subject-Matter Lab from Table 1	el	C. Grade Level Code from list below	D. Number of Students
Example	192	Algebra II		11	33
(1)					
(2)					
(3)					
(4)					
(5)					
(6)					
(7)					
(8)					
(9)					
(10)					
Grade Level Codes If your class period or section has students from more than one grade level (i.e., MIXED GRADES), please list the grade with the most students.					
	(I.e., W	PK Prekindergarten	07 7th	n grade	
		KG Kindergarten 01 1st grade	09 9th	n grade n grade th grade	
		02 2nd grade 03 3rd grade 04 4th grade	11 11	th grade th grade th grade	
		05 5th grade 06 6th grade		graded	
					431



3. EDU	JCATION AND TRAINING
3-1a.	 Do you have a bachelor's degree? If you have more than one bachelor's degree, information about additional degrees will be asked in item 3-3 on page 15. Yes No → GO TO item 3-3 on page 15.
b.	What is the name of the college or university where you earned this degree? Name of college or university
	In what city and state is it located? City State
	Located outside the United States
c.	In what year did you receive your bachelor's degree? Year
d.	 Which of the following best describes your bachelor's degree? <i>Mark (X) only one box.</i> It was awarded by your school's College of Education, School of Education, or Department of Education It was awarded by another college, school, or department, not in education
e.	Using Table 2 on page 13, what was your major field of study?
	Major Field Major Field of Study Code Major Field
f.	Did you have a second major field of study? • Do NOT report academic minors or concentrations.
\int	$\Box \text{Yes}$ $\Box \text{No} \rightarrow GO \text{ TO item 3-1h on page 14.}$
g.	Using Table 2 on page 13, what was your second major field of study?
	Major Field of Study Code Major Field of Study Label
	FORM NTPS-4A

Table 2.	Major and Minor Fields of Study Codes and Labels	S
I	or Questions 3-1e, 3-1g, 3-1i, 3-2e, and 3-3b	

		d Labels
Elementary Education	Other I	Education
101 Early childhood or pre-K, general	131	Administration
102 Elementary grades, general	132	Counseling and guidance
Secondary Education	133	Educational psychology
103 Middle grades, general	134	Policy studies
104 Secondary grades, general	135	School psychology
	136	Other non-subject-matter-specific educati
Special Education110Special education, any		
Subject-matter Specific	Codes a	and Labels
Arts and Music	222	Area or ethnic studies (excluding Native
141 Art or arts and crafts		American studies)
142 Art history	223	Criminal justice
143 Dance	224	Cultural studies
144 Drama or theater	225	Economics
145 Music	226	Geography
English and Language Arts	227	Government or civics
151 Communications	228	History
	229	International studies
152 Composition	230	Law
153 English 154 Journalism	231	Native American studies
	232	Political science
155 Language arts	233	Psychology
156 Linguistics	234	Sociology
157 Literature or literary criticism	235	Other social sciences
158 Reading		
159 Speech		or Technical Education
English as a Second Language (ESL)	241	Agriculture and natural resources
160 ESL or bilingual education: General	242	Business management
161 ESL or bilingual education: Spanish	243	Business support
162 ESL or bilingual education: Other	244	Marketing and distribution
languages	245	Healthcare occupations
	246	Construction trades, engineering, or
Foreign Languages 171 French		science technologies (including CADD ar
		drafting)
172 German	247	Mechanics and repair
173 Latin	249	Manufacturing or precision production
174 Spanish		(electronics, metalwork, textiles, etc.)
175 Other foreign language	250	Communications and related technologies
Health Education		(including design, graphics, or printing; no
181 Health education		including computer science)
182 Physical education	253	Personal and public services
Mathematics and Computer Science		(including culinary arts, cosmetology, chil
190 Mathematics		care, social work, protective services,
		custodial services, and interior design)
	254	Family and consumer sciences education
	255	Industrial arts or technology education
Natural Sciences	256	Other career or technical education
211 Biology or life sciences		
212 Chemistry		laneous
213 Earth sciences	261	Architecture
214 Engineering	263	Humanities or liberal studies
217 Physics	264	Library or information science
218 Other natural sciences	265	Military science or ROTC
	266	Philosophy
Social Sciences	267	Religious studies, theology, or divinity



3-1h.	Did you have a minor field of study?	
Г	Yes	
	$\Box No \rightarrow \textbf{GO TO item 3-2a below.}$	
▼ i.	Using Table 2 on page 13, what was your minor field of study?	
	Minor Field	Minor Field
	of Study Code	of Study Label
3-2a.	 Do you have a master's degree? If you have more than one master's degree, information about additional degrees will in item 3-3 on page 15. 	l be asked
Г	□ Yes	
	□ No \rightarrow GO TO item 3-3 on page 15.	
▼ b.	Was at least a portion of the cost of your master's degree paid for by a STATE, S	CHOOL, or
	SCHOOL DISTRICT in which you taught?	
с.	In what year did you receive your master's degree?	
	Year	
d.	Which of the following best describes your master's degree?	
	 Mark (X) only one box. It was awarded by your school's College of Education, School of Education, or Department of Education, or Department 	epartment
	 of Education It was awarded by another college, school, or department, not in education 	
е.	Using Table 2 on page 13, what was your major field of study for your master's d	-
	Major Field of Study Code	Major Field of Study Label
		434
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3-3. Have you earned any of the degrees or certificates listed below?							
► No → GO TO item 3-4 on page 16.							
a. Degree or certificate	b. Using Table 2 on page 13, what was your major field of study for each degree or certificate?	 c. Which of the following best describes each degree or certificate? Mark (X) only one box. 	d. In what year?				
(1) Vocational certificate	Major Field of Study Code		Year				
(2) Associate's degree	Major Field of Study Code		Year				
(3) SECOND Bachelor's degree	Major Field of Study Code	It was awarded by your school's College of Education, School of Education, or Department of Education It was awarded by another college, school, or department, not in education	Year				
(4) SECOND Master's degree	Major Field of Study Code Major Field of Study Label	 It was awarded by your school's College of Education, School of Education, or Department of Education It was awarded by another college, school, or department, not in education 	Year				
(5) Educational specialist or professional diploma (at least one year beyond a master's level)	Major Field of Study Code	It was awarded by your school's College of Education, School of Education, or Department of Education It was awarded by another college, school, or department, not in education	Year				
(6) Certificate of Advanced Graduate Studies	Major Field of Study Code	It was awarded by your school's College of Education, School of Education, or Department of Education It was awarded by another college, school, or department, not in education	Year				
 (7) Doctorate or first professional degree (Ph.D., Ed.D., M.D., J.D., D.D.S.) 	Major Field of Study Code	It was awarded by your school's College of Education, School of Education, or Department of Education It was awarded by another college, school, or department, not in education	Year				
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3-4.	 Have you ever taken any graduate or undergraduate courses that focused SOLELY on teaching methods? Do NOT include student teaching (sometimes called practice teaching). Do NOT include professional development courses, workshops, or seminars. 					
		· · · · · · · · · · · · · · · · · · ·	w many courses? Mark (X) only one box.			
		No \rightarrow GO TO item 3-6 below.	1 or 2 courses			
			3 or 4 courses			
			5 to 9 courses			
			10 or more courses			
3-5.	Did y	ou take any of the courses you marke	ed in 3-4 before your first year of teaching?			
		Yes				
		No				
3-6.	BEFC	DRE your first year of teaching, did yo	u take any graduate or undergraduate courses			
		h taught you —				
	a. c	classroom management techniques?				
		Yes				
		No				
	b. Le	esson planning?				
	E	Yes				
	C	No				
	с. Н	low to assess learning?				
	C	Yes				
	C	No				
	d. H	low to use student performance data t	o inform instruction?			
	C	Yes				
	C	No				
	<u>а</u> н	ow to serve students from diverse ec	onomic backgrounds?			
	C. II	Yes				
		No				
		FORM N	436 ITPS-4A			

3-6.	Continued – BEFORE your first year of teaching, did you take any graduate or undergraduate courses which taught you —						
	f.	How to serve students with special needs?					
		Yes					
		No					
		How to teach students who are limited-English proficient (LEP) or English-language learners (ELLs)?					
		□ Yes					
		No					
3-7a.	Did	you have any student teaching (sometimes called practice teaching)?					
Г		Yes					
Ļ		No \rightarrow GO TO Section 4 on page 18.					
b.	In h 🍎 A	now many different classrooms did you student teach? Mark (X) only one box.					
		1					
		2					
		3 or more					
C.	🍎 lf te	v long did your student teaching last? Fyou student taught in more than one classroom, report the total amount of time spent student eaching across all assignments. Mark (X) only one box.					
		4 weeks or less					
		5-7 weeks					
		8-11 weeks					
		12 weeks or more					



4. CERTIFICATION	
(An alternative route to certification	an alternative route to certification program? on program is a program that was designed to expedite the transition eer, for example, a state, district, or university alternative route to
allows teachers to report UP TO TWO cu plus several content areas per certificate,	te certification. Please read the questions carefully. This section urrent teaching certificates in the state where they are teaching, , if applicable. Those who have only one certificate that applies to fill out the entire section and should follow the GO TO instructions.
4-2a. Which of the following describe to teach in THIS state?	es the teaching certificate you currently hold that certifies you
🍎 Mark (X) only one box.	n one of the following, a second certification may be listed in item 4-3.
Regular or standard state c	ertificate or advanced professional certificate
	sfying all requirements except the completion of a probationary is called a probationary certificate)
Certificate that requires son before regular certification of provisional certificate)	ne additional coursework, student teaching, or passage of a test can be obtained (in some states this is called a temporary or is who must complete a certification program in order to continue
teaching (in some states the	is is called a waiver or emergency certificate) ove certifications in THIS state \rightarrow GO TO Section 5 on page 22.
 certificate marked above certify (For some teachers, the content If this certificate certifies you to content areas in later items. 	what content area(s) and grade range(s) does the teaching y you to teach in THIS state? area may be special education or the grade level.) to teach in more than one content area, you may report additional trict you to a specific grade range(s), mark (X) all three grade ranges.
(1) Content Area	(2) Grade Range of Certificate (Mark (X) all that apply)
Content Area Code	Early childhood, preschool, or at least one of grades K-5
Content Area Label	At least one of grades 6-8
	At least one of grades 9-12
c. Does this certificate marked in	item 4-2a certify you to teach in additional content areas?
Yes → GO TO item 4-2d on pa	ge 20.
□ No \rightarrow GO TO item 4-3a on page	ge 20.
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Table 3. Certification Content Area Codes and Labels For Questions 4-2b, 4-2d, 4-3c, and 4-3e

General Education Codes and Labels

Elementary Education

- 101 Early childhood or Pre-K, general
- 102 Elementary grades, general
- 103 Middle grades, general

Secondary Education

- 103 Middle grades, general
- 104 Secondary grades, general

Special Education

- 111 Special education, general
- Autism 112
- 113 Deaf and hard-of-hearing
- 114 Developmentally delayed
- Early childhood special education 115 116
 - Emotionally disturbed or behavior disorders

Subject-matter Specific Codes and Labels

Arts and Music

- 141 Art or arts and crafts
- 142 Art History
- 143 Dance
- 144 Drama or theater
- 145 Music

English and Language Arts

- 151 Communications
- 152 Composition
- 153 English
- 154 Journalism
- 155 Language arts
- Literature or literary criticism 157
- 158 Reading
- Speech 159

English as a Second Language (ESL)

- 160 ESL or bilingual education: General
- ESL or bilingual education: Spanish 161
- 162 ESL or bilingual education: Other languages

Foreign Languages

- 171 French
- 172 German
- 173 Latin
- 174 Spanish
- 175 Other foreign language

Health Education

- Health education 181
- 182 Physical education

Mathematics and Computer Science

- 190 Mathematics
- Computer science 197
- Statistics and probability 200

Natural Sciences

- 210 Science, general
- 211 Biology or life sciences
- 212 Chemistry
- 213 Earth sciences
- Physical sciences 216
- 217 Physics
- Other natural sciences 218

- Special Education Continued
- 117 Learning disabilities
- Intellectual disabilities 118
- Mildly or moderately disabled 119
- Orthopedically impaired 120
- Severely or profoundly disabled 121
- 122 Speech or language impaired
- 123 Traumatically brain-injured
- 124 Visually impaired
- Other special education 125

General Administration

Anthropology

Economics

Geography

Psychology

Sociology

History

American studies)

Political Science

Government or civics

Other social sciences

Business management

Healthcare occupations

Mechanics and repair

Marketing and distribution

including computer science)

Personal and public services

Humanities or liberal studies

Military science or ROTC

Library or information science

Agriculture and natural resources

Construction trades, engineering, or science technologies (including CADD and drafting

Manufacturing or precision production

(electronics, metalwork, textiles, etc.)

care, social work, protective services,

custodial services, and interior design)

Industrial arts or technology education

Religious studies, theology, or divinity

Other career or technical education

Communications and related technologies

(including design, graphics or printing; not

(including culinary arts, cosmetology, child

Family and consumer sciences education

Career or Technical Education

Business support

Native American studies

131 Administration

Social Sciences

220

221

222

225

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132 Counseling and guidance

Social studies, general

Area or ethnic studies (excluding Native

- Other
 - 268 Other

Miscellaneous

Driver education

Philosophy



 4-2. Continued – d. Using Table 3 on page 19, please record all ADDITIONAL content areas and grade ranges in which this certificate certifies you to teach: If your certificate does not restrict you to a specific range(s), mark (X) all three ranges. 				
Additional Content Area	Grade Range of Certificate (Mark (X) all that apply)			
(1) Content Area Code	Early childhood, preschool, or at least one of grades K-5			
Content Area Label	At least one of grades 6-8			
	At least one of grades 9-12			
(2) Content Area Code	 Early childhood, preschool, or at least one of grades K-5 At least one of grades 6-8 			
Content Area Label	At least one of grades 9-12			
(3) Content Area Code	 Early childhood, preschool, or at least one of grades K-5 At least one of grades 6-8 			
	At least one of grades 9-12			
(4) Content Area Code Image: Content Area Label Image: Content Area Label				
Yes	eaching certificate that certifies you to teach in THIS state?			
 No → GO TO Section 5 on page 22. Which of the following describes this current teaching certificate you hold in THIS state? Mark (X) only one box. Regular or standard state certificate or advanced professional certificate Certificate issued after satisfying all requirements except the completion of a probationary period (in some states this is called a probationary certificate) Certificate that requires some additional coursework, student teaching, or passage of a test before regular certification can be obtained (in some states this is called a temporary or provisional certificate) Certificate issued to persons who must complete a certification program in order to continue teaching (in some states this is called a waiver or emergency certificate) 				

4-3. Continued –						
certificate marked in question	hat content area(s) and grade range(s) does the teaching 4-3b on page 20 certify you to teach in THIS state?					
(For some teachers, the content area may be special education or the grade level.) If this certificate certifies you to teach in more than one content area, you may report additional						
content areas in later items. f your certificate does not restrict you to a specific grade range(s), mark (X) all three grade ranges.						
(1) Content Area	(2) Grade Range of Certificate (Mark (X) all that apply)					
Content Area Code	Early childhood, preschool, or at least one of grades K-5					
Content Area Label	At least one of grades 6-8					
	At least one of grades 9-12					
d. Does this certificate marked in	item 4-3b certify you to teach in additional content areas?					
$\square \text{ No} \rightarrow (GO \text{ TO Section 5 on page})$	e 22.					
e. Using Table 3 on page 19, plea in which this certificate certifie	se record all ADDITIONAL content areas and grade ranges					
	trict you to a specific grade range(s), mark (X) all three grade ranges.					
Additional Content Area	Grade Range of Certificate (Mark (X) all that apply)					
(1) Content Area Code	Early childhood, preschool, or at least one of grades K-5					
Content Area Label	At least one of grades 6-8					
	At least one of grades 9-12					
(2) Content Area Code						
	Early childhood, preschool, or at least one of grades K-5					
Content Area Label	At least one of grades 6-8					
	At least one of grades 9-12					
(3) Content Area Code	Early childhood, preschool, or at least one of grades K-5					
	At least one of grades 6-8					
Content Area Label	At least one of grades 9-12					
(4) Content Area Code						
	Early childhood, preschool, or at least one of grades K-5					
Content Area Label	At least one of grades 6-8					
	At least one of grades 9-12					
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5. TEA	CHER EVALUATIONS							
5-1.	During the LAST school year (2016-17), were you	evaluated a	at THIS scho	ol?				
	 No → (1) During the LAST school year (2016-17), why were you not evaluated at THIS school? Mark (X) only one box. 							
	□ I was not a te	acher at this	school last y	ear				
	□ I was not eval every 2 or mo	luated becau pre years	se I am only	evaluated				
	☐ This school de	oes not cond	uct teacher e	valuations				
	□ I was not eva	luated for an	other reason					
	GO	TO item 6-1a on	page 24.					
♦ 5-2.	To what extent do you agree or disagree with the	o following s	tatements a	bout THIS so	chool's			
•	evaluation process LAST school year (2016-17)?	_						
		Strongly	Somewhat		Strongly			
	a. Overall, the evaluation process was fair.		Disagree	Agree	Agree			
	b. The evaluation process was based on what is known about good teaching practice.							
	c. I had a strong understanding of how I would be evaluated at this school.							
	d. The evaluation process helped me to determine whether I had been successful with my students.							
	e. The evaluation process had a positive effect on my teaching.							
	f. Overall, the evaluation process led to improved student learning.							
	g. The results of my evaluation were accurate.							

5-3.	Did you receive feedback from your evaluation LAST school year (2016-17)?
	□ Yes
Ļ	$\square \qquad \text{No} \rightarrow \textbf{GO TO item 5-5 below.}$
5-4a.	Did you receive feedback on your teaching methods from your evaluation LAST school year (2016-17)?
	☐ Yes
	No
b.	Did you receive feedback on how well you were meeting the school's performance goals from your evaluation LAST school year (2016-17)?
	□ Yes
	No
с.	Have you used the feedback you received from your evaluation LAST school year (2016-17), to improve your teaching?
	□ Yes
	No
5-5.	Was participation in professional development considered during your evaluation LAST school year (2016-17)?
	□ Yes
	No
	443



6. TEAC	6. TEACHER PROFESSIONAL DEVELOPMENT					
 6-1. During the past 12 months, how frequently, if at all, did you participate in each of the following professional development activities? If an activity occurred all day for several days, but less than one month of the year in total, please mark "Once or a few times a year" 						
		🍎 Λ	Aark (X) one	box on each	line.	
		Did not participate	Once or a few times a year	Once or a few times a month	Once or a few times a week	
a	 Planned lessons or courses with other teachers 					
k	 Consulted with other teachers about individual students 					
c	 Collaborated with other teachers on issues of instruction excluding administrative meetings 					
C	I. Acted as a coach or mentor to other teachers or staff					
e	 Received coaching or mentoring from other teachers or staff 					
f	Participated in online or web-based professional development					
ç	J. Participated in a workshop					
ł	a. Attended a conference					



6-2. During the past 12 months, how many HOURS, if any, did you spend participating in any of the following types of professional development?

Bro		Mark (X) one box on each line.						
Dro		Did not participate8 hours or less9-16 hours17-32 hours33 hour or mor						
tha	ofessional development t directly relates to your ching assignment							
usi	ofessional development on ng technology to support truction							
tea Enç (ST	ofessional development on ching Science, Technology, gineering or Mathematics EM), or incorporating STEM o other subjects							
clas	ofessional development on ssroom and behavior nagement							
ins	ofessional development on truction strategies to teach dents with disabilities or IEPs							
diff	ofessional development on erentiated instruction for students							
pre	ofessional development on paring students to take nual assessments							
ana	ofessional development on alyzing and interpreting dent achievement data							
nonth	dering all of the professional d s, how relevant was it to your k (X) only one box.	evelopment teaching ass	you particip signment?	ated in durir	ng the past f	12		
	Did not complete any professional	development	in the past 1	2 months \rightarrow	GO TO item 6-	7 on page 27		
	Not relevant at all							
	Somewhat relevant							
_	/ery relevant							

6-3.

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6-4a.	dev	ing the past 12 months, how often did you incorporate what you learned in professional velopment into your teaching? Mark (X) only one box
		Never → GO TO item 6-5 below.
		Rarely
		Often
		Always
b.		ring the past 12 months, did you receive feedback about how you incorporated what you receive feedback about how you incorporated what you red from professional development into your teaching?
		Yes
↓ I		No
6-5.		a result of completing any professional development activities in the past 12 months, did receive credits toward re-certification or advanced certification?
		Yes
		No
6-6.	Dur	ing the past 12 months, did you receive any of the following types of support?
	a.	Release time from teaching to attend professional development
		Yes
		No
	b.	Funding or reimbursement for attending conferences or workshops for professional development
		□ Yes
		No
	c.	Funding or reimbursement for travel and/or daily expenses to attend professional development
		Yes
		No
	d.	Full or partial reimbursement of college tuition for courses related to professional development
		□ Yes
		No
	e.	Stipend for professional development activities that took place outside regular work hours
		Yes
		No

6-7.	To what extent do you agree or disagree with the following statements about YOUR
	professional development as a teacher at THIS school?

	professional development as a teacher at THIS school?				
			Somewhat	box on each	Strongly
		Disagree	Disagree	Agree	Agree
	a. I have sufficient resources available for my professional development.				
	b. I have access to about the same amount of resources for professional development as other teachers.				
	c. My professional development opportunities are aligned with this school's performance goals.				
	d. The techniques I am learning about in my professional development will help improve student achievement.				
	e. I feel capable of incorporating the kinds of techniques I am learning about in my professional development.				
	f. The types of professional development available to me are consistent with my own professional goals.				
	g. I have the opportunity to provide feedback to school leaders about my professional development experience to determine its value and impact.				
6-8.	Does THIS school provide teachers with time for during regular contract hours?	INDIVIDUAL	_ profession	al developm	ent
	□ Yes				
	No				
6-9.	Does THIS school provide teachers with time for during regular contract hours?	TEAM-BAS	ED professic	onal develop	ment
	No				
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7. TEACHER ENGAGEMENT

7-1. To what extent do you agree or disagree with the following statements about your work at this school?

		🍝 Λ	Aark (X) one	box on each	line.
		Strongly Disagree	Somewhat Disagree	Somewhat Agree	Strongly Agree
a.	The stress and disappointments involved in teaching at this school aren't really worth it.				
b.	The teachers at this school like being here; I would describe us as a satisfied group.				
c.	I like the way things are run at this school.				
d.	If I could get a higher paying job I'd leave teaching as soon as possible.				
e.	I think about transferring to another school.				
f.	I don't seem to have as much enthusiasm now as I did when I began teaching.				
g.	I think about staying home from school because I'm just too tired to go.				



8. GENERAL EMPLOYMENT AND BACKGROUND INFORMATION	
 The following questions refer to your BEFORE-TAX earnings from teaching and other employment. 8-1. DURING THE SUMMER OF 2017, did you have any earnings from — <i> </i>	
a. Teaching summer school in this school or any other school?	
$\Box \text{ Yes} \rightarrow \text{How much?} \qquad $ 0,000 \\ \text{How much?} \qquad $ 0,0000 \\ \text{How much?} \qquad $ 0,000 \\ How $	
(1) Did all of these earnings come from your current school?	
Yes	
□ No	
GO TO item 8-1b below.	
b. Working in a non-teaching job in this school or any other school?	
$\Box \text{ Yes} \rightarrow \text{How much?} \qquad \qquad$	
(1) Did all of these earnings come from your current school?	
□ Yes	
□ No	
GO TO item 8-1c below.	
	_
c. Working in any NONSCHOOL job?	
$\Box \text{ Yes} \rightarrow \text{How much?} \qquad \$ \qquad 0.00$	
GO TO item 8-2 below.	
 8-2. How many days are covered by your contract, per contract year? for include professional development, student contact days, and any other days covered by your contract. 	
Days per contract year	
 8-3. DURING THE CURRENT SCHOOL YEAR, what is your base teaching salary for the entire school year? 	
\$	



8-4.	from this activity s	school syponsorsh	stem for extra	curricular or addition eachers, or teaching	onal activities such	dditional compensation as coaching, student
	Yes	→	How much?	\$ 00,00	.00	
	No			GO TO item 8-5	below.	
8 -5.	from this pay-for-p	s school sy erformand		n your students' pe		dditional compensation ough a merit pay or
	Yes	→	How much?	\$ 00,00	.00	
\Box	No			GO TO item 8-6	below.	
8-6.	from this	s school s T report a		a state supplemen ady reported.		any OTHER sources
	Yes	\rightarrow	How much?	\$ 00,00	.00	
	No			GO TO item 8-7a	a below.	
▼ 8-7a.	from wor	king in an		this school systen	vill you, earn additi 1?	onal compensation
	Yes	→	How much?	\$ 00,00	.00	
			J	GO TO item 8-7b	below.	
	□ No ·	→ G0 T0 i	tem 8-8 on page 31			
b.		these bes () only one		s job OUTSIDE this	school system?	
	🗆 Tea	ching or tu	toring			
	Non	-teaching,	but related to te	eaching field		
	Oth	er				
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8-8.	During the CURRENT SCHOOL YEAR do you, or will you, receive a retirement pension check paid from a teacher retirement system? • Report amounts in whole dollars.
	 Yes → How much? \$ 0,000,00 GO TO item 8-9 below.
♥ 8-9.	Are you a member of a teachers' union or an employee association similar to a union? Yes No
8-10a.	Does your school, district, or school system offer tenure? ○ Yes ○ No → GO TO item 8-11 below.
b.	Are you tenured at your current school? Yes No
8-11.	Are you male or female? Image: Male Image: Female
	What is your current marital status? Mark (X) only one box. Now married → GO TO item 8-13 on page 32. Widowed Separated Divorced Never married Are you currently living with a boyfriend/girlfriend or partner? Yes No
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 8-13. Are you of Hispanic or Latino origin? Yes No 8-14. What is your race? Mark (X) one or more races to indicate what you consider yourself to be. White Black or African-American Asian Native Hawaiian or Other Pacific Islander American Indian or Alaska Native 8-15. What is your year of birth? 	
 No 8-14. What is your race? Mark (X) one or more races to indicate what you consider yourself to be. White Black or African-American Asian Native Hawaiian or Other Pacific Islander American Indian or Alaska Native 	
 8-14. What is your race? Mark (X) one or more races to indicate what you consider yourself to be. White Black or African-American Asian Native Hawaiian or Other Pacific Islander American Indian or Alaska Native 	
 Mark (X) one or more races to indicate what you consider yourself to be. White Black or African-American Asian Native Hawaiian or Other Pacific Islander American Indian or Alaska Native 	
8-15. What is your year of birth?	

9. FEE	EDI	BACK AND TEACHER STRATE	GIES							
		onses to this section of questions will he nal comparisons to teachers in other cou		rs and policy	makers make					
9-1.	 When did you complete formal education or training that qualified you to teach? Enter a four-digit year. An approximate year is sufficient. Year 									
9-2. In this school, who uses the following types of information to provide feedback to you? (<u>External individuals or bodies</u> refer to, for example, inspectors, municipality representatives, or other persons from outside the school.)										
	Mark (X) all that apply on each line.									
			External individuals or bodies	School principal or member(s) of the school management team	Other colleagues within the school (not part of the school management team)	I have never received this feedback in this school				
	a.	Observation of my classroom teaching								
	b.	Student survey responses related to my teaching								
	c.	Assessment of my content knowledge								
	d.	My students' external results (e.g., national test scores)								
	e.	School-based and classroom-based results (e.g., performance results, project results, test scores)								
	f.	Self-assessment of my work (e.g., presentation of a portfolio assessment, analysis of my teaching using video)								
		If you answered 'I have never received this feedback in this school' to all of the above		TO item 9-5 on pa	ige 35.					

9-3.	Thinking of all of the feedback that you have received during the these have a positive impact on your teaching practice?	e last 12 month	s, did any of
\mathbf{I}	Yes GO TO item 9-5 on page 35.		
9-4.	Thinking about the feedback you have received during the last positive change in any of the following aspects of your work as		t lead to a
		Mark (X) one Yes	box on each line. No
	a. Knowledge and understanding of my main subject field(s)		
	b. Methods of teaching in my main subject field(s)		
	c. Use of student assessments to improve student learning		
	d. Classroom management		
	e. Methods for teaching students with special needs		
	f. Methods for teaching in a multicultural or multilingual setting		
	g. Feedback to other teachers about their teaching		
	h. Collaboration or working with other teachers		
	i. Confidence as a teacher		
	j. Motivation as a teacher		
	k. Job satisfaction		
	I. Participation in professional development activities		
	m. Other, please specify		



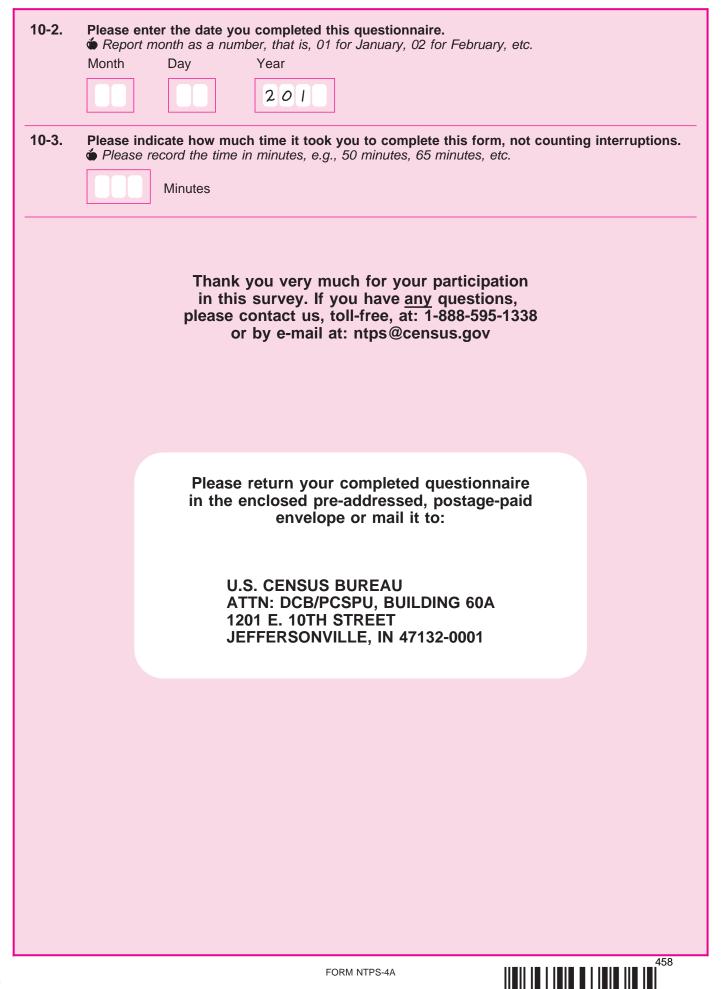
	Mark (X) one box on each line.				
	Not at all Very little To some extent				
a. Get students to believe they can do well in school work					
b. Help my students value learning					
c. Craft good questions for my students					
d. Control disruptive behavior in the classroom					
e. Motivate students who show low interest in school work					
f. Make my expectations about student behavior clear					
g. Help students think critically					
h. Get students to follow classroom rules					
i. Calm a student who is disruptive or noisy					
j. Use a variety of assessment strategies					
k. Provide an alternative explanation for example when students are confused					
I. Vary instructional strategies in my classroom					
m. Help students develop cross-curricular skills (e.g., creativity, critical thinking, problem solving)					
 n. Support student learning through the use of digital technology (e.g., computers, tablets, smart boards) 					
 Support student collaborative learning through the use of digital technology (e.g., computers, tablets, smart boards) 					

10. CONTACT INFORMATION					
10-1.	the infe All be	ease PRINT your name, your home address, your cell and home telephone numbers, e most convenient time to reach you, and your work and home e-mail addresses. This ormation would only be used in the event that we need to contact you for follow-up. of the information you provide may be used only for statistical purposes and may not disclosed, or used, in identifiable form for any other purpose except as required by v (20 U.S.C. §9573 and 6 U.S.C. §151).			
	a.	First name			
		Middle name			
		Last name Suffix			
	b.	Street Address			
	c.	City			
	d.	State			
	e.	ZIP Code			
	f.	Cell phone number Area code Number			
	g.	Home phone number Area code Number			



h.	Best 🍎 N	t day(s) to reach you fark (X) all that apply.
		Monday
		Tuesday
		Wednesday
		Thursday
		Friday
		Saturday
		Sunday
i.	Bes Ó <i>N</i>	t time of the day to reach you fark (X) only one box.
		a.m.
		p.m.
j.	Wor	k e-mail address

k. Home e-mail address





To learn more about this survey and to access reports from earlier collections, see the National Teacher and Principal Survey (NTPS) website at: <u>http://nces.ed.gov/surveys/ntps</u>

> Additional data collected by the National Center for Education Statistics (NCES) on a variety of topics in elementary, secondary, postsecondary, and international education are available from NCES' website at: http://nces.ed.gov

For additional data collected by various Federal agencies, including the Department of Education, visit the Federal Statistics clearinghouse at: <u>http://www.fedstats.sites.usa.gov</u> Appendix I-3: School Questionnaires

Appendix I-3a: Summary of Revisions 2018 Grades 4, 8, and 12 Core

Previous item	2018 item	D/A/ R/NC+	Rationale
1. What is your sex?	1. What is your sex?	NC	
(D) Male	D Male		
D Female	D Female		
(2018 Pilot Teacher and School Gender Item)	Issue: Gender		
2. What grades are taught in your school? Select all squares that apply.	2. What grades are taught in your school? Select all squares that apply.	NC	
Dere-kindergarten	Pre-kindergarten		
D Kindergarten	D Kindergarten		
© 1st grade	© 1st grade		
© 2nd grade	D 2nd grade		
D 3rd grade	D 3rd grade		
D 4th grade	D 4th grade		
© 5th grade	© 5th grade		
1 6th grade	⊕ 6th grade		
7th grade 7th grad	Tth grade		
© 8th grade			
S 9th grade	S 9th grade		
D 10th grade	O 10th grade		
11th grade	@ 11th grade		
12th grade	12th grade		
(2015 Operational Grade 12, 2017 Operational Grades 4 and 8)	Issue: School Climate		

Items will be used at all grades unless otherwise specified.					
Previous item	2018 item	D/A/ R/NC+	Rationale		
3. Can your school be described by any of the following? Select all squares that apply.	3. Can your school be described by any of the following? Select all squares that apply.	NC			
Elementary school	Elementary school				
Middle or junior high school	D Middle or junior high school				
© Secondary school	© Secondary school				
Regular school with a magnet program	D Regular school with a magnet program				
 A magnet school or a school with a special program emphasis, e.g., science/mathematics school, performing arts school, talented/gifted school, foreign language immersion school 	A magnet school or a school with a special program emphasis, e.g., science/mathematics school, performing arts school, talented/gifted school, foreign language immersion school				
© Special education school: primarily serves students with disabilities	© Special education school: primarily serves students with disabilities				
C Alternative school: offers a curriculum designed to provide alternative or nontraditional education, not clearly categorized as regular, special, or vocational education	Alternative school: offers a curriculum designed to provide alternative or nontraditional education, not clearly categorized as regular, special, or vocational education				
Private independent school	Private independent school				
D Private religiously affiliated school	D Private religiously affiliated school				
Charter school administered by local school district Other (Plane are school)	© Charter school administered by local school district				
O Other (Please specify):	Other (Please specify):				
(2016 Pilot Grade 12, 2017 Operational Grades 4 and 8)	Issue: School Climate				
 Please identify the organization(s) listed below to which your school is most closely affiliated. Select all squares that apply. 	 Please identify the organization(s) listed below to which your school is most closely affiliated. Select all squares that apply. 	R	Sub-item j was revised from		
American Association of Christian Schools	@ American Association of Christian Schools		"None of the		
D Association of Christian Schools International	D Association of Christian Schools International		above" to "Not		
© Christian Schools International	© Christian Schools International		affiliated with		
D National Association of Episcopal Schools	D National Association of Episcopal Schools		any organization" fo		
D National Association of Independent Schools	D National Association of Independent Schools		clarity.		
Mational Catholic Educational Association	D National Catholic Educational Association		chanter,		
National Society of Hebrew Day Schools	© National Society of Hebrew Day Schools				
The Association of Boarding Schools	The Association of Boarding Schools				
Other (Please specify):	 Other (Please specify): 				
Ø None of the above	 Onlet (Frease specify). O Not affiliated with any organization 				
(2016 Pilot Grade 12, 2017 Operational Grades 4 and 8)	Issue: School Climate				
5. What is the current enrollment in your school?	5. What is the current enrollment in your school?	NC			
(2015 Operational Grade 12, 2017 Operational Grades 4 and 8)	Issue: School Climate				

Grades 4, 8, and 12 Core School Items will be used at all grades unless otherwise specified.			
Previous item	2018 item	D/A/ R/NC+	Rationale
 6. Approximately what percentage of fourth-graders in your school is new this year? \[\] 	 6. Approximately what percentage of fourth-graders in your school is new this year? \[\] 	NC	This item is used at grade 4 only.
(2017 Operational Grade 4)	Issue: School Climate		
 6. Approximately what percentage of eighth-graders in your school is new this year? M % 	6. Approximately what percentage of eighth-graders in your school is new this year?	NC	This item is used at grade 8 only.
(2017 Operational Grade 8)	Issue: School Climate		
 6. Approximately what percentage of twelfth-graders in your school is new this year? ¹ ¹	 6. Approximately what percentage of twelfth-graders in your school is new this year? 3. Approximately what percentage of twelfth-graders in your school is new this year? 	NC	This item is used at grade 12 only.
(2015 Operational Grade 12)	Issue: School Climate		
 7. About what percentage of this year's fourth-graders was held back and is repeating fourth grade? 0% 1-2% 3-5% 6-10% More than 10% 	 7. About what percentage of this year's fourth-graders was held back and is repeating fourth grade? Ø 0% Ø 1-2% Ø 3-5% Ø 6-10% Ø More than 10% 	NC	This item is used at grade 4 only.
(2017 Operational Grade 4)	Issue: School Climate		
7. About what percentage of this year's eighth-graders was held back and is repeating eighth grade?	7. About what percentage of this year's eighth-graders was held back and is repeating eighth grade?	NC	This item is used at grade 8 only.
© 0%	Ø 0%		
D 1-2%	© 1–2%		
© 3–5%	© 3–5%		
D 6-10%	© 6–10%		
D More than 10%	D More than 10%		
(2017 Operational Grade 8)	Issue: School Climate		

Items will be used at all grades unless otherwise specified. D/A/ Rationale Previous item 2018 item D/A/ Rationale				
		D/A/ R/NC+	Rationale	
8. Of the students currently enrolled in your school, what percentage has been identified as limited-English proficient?	8. Of the students currently enrolled in your school, what percentage has been identified as limited-English proficient?	NC		
© 0%	Ø 0%			
D 1–5%	D 1–5%			
© 6-10%	© 6–10%			
© 11-25%	© 11-25%			
© 26–50%	© 26-50%			
© 51-75%	© 51-75%			
© 76–90%	© 76-90%			
(D) Over 90%	(D) Over 90%			
(2016 Pilot Grade 12, 2017 Operational Grades 4 and 8)	Issue: School Climate			
9. Last school year, approximately what percentage of students at your school enrolled after the first day of school?	9. Last school year, approximately what percentage of students at your school enrolled after the first day of school?	NC		
Ø 0%	© 0%			
D 1-3%	D 1–3%			
© 4-6%	© 4-6%			
D 7-10%	© 7-10%			
© 11-20%	© 11-20%			
© Over 20%	© Over 20%			
(2015 Operational Grade 12, 7 Operational Grades 4 and 8)	Issue: School Climate			
10. Last school year, approximately what percentage of students at your school left before the end of the school year?	10. Last school year, approximately what percentage of students at your school left before the end of the school year?	NC		
© 0%	© 0%			
D 1-3%	D 1-3%			
© 4-6%	© 4-6%			
© 7–10%	D 7-10%			
© 11–20%	© 11–20%			
© Over 20%	© Over 20%			
(2015 Operational Grade 12, 2017 Operational Grades 4 and 8)	Issue: School Climate			

Grades 4, 8, and 12 Core School Items will be used at all grades unless otherwise specified.			
Previous item	2018 item	D/A/ R/NC+	Rationale
 About what percentage of your students is absent on an average day? (Include excused and unexcused absences in calculating this rate.) 	 About what percentage of your students is absent on an average day? (Include excused and unexcused absences in calculating this rate.) 	NC	
© 0-2%			
© 3-5%	D 3-5%		
© 6-10%	© 6-10%		
D More than 10%	D More than 10%		
(2015 Operational Grade 12, 2017 Operational Grades 4 and 8)	Issue: School Climate		
 About what percentage of your teachers is absent on an average day? (Include all absences in calculating this rate.) 	 About what percentage of your teachers is absent on an average day? (Include all absences in calculating this rate.) 	NC	
3 0-2%	✤ 0-2%		
D 3-5%	D 3-5%		
© 6-10%	© 6–10%		
D More than 10%	D More than 10%		
(2015 Operational Grade 12, 2017 Operational Grades 4 and 8)	Issue: School Climate		
13. Does your school participate in the National School Lunch Program?	13. Does your school participate in the National School Lunch Program?	NC	
⊕ Yes	⊕ Yes		
D No Questions 4–6 are not applicable and will be skipped.	D No Questions 4–6 are not applicable and will be skipped.		
(2016 Pilot Grade 12, 2017 Operational Grades 4 and 8)	Issue: Socioeconomic Status		
14. How does the school operate the program?	14. How does the school operate the program?	NC	
Student eligibility is determined individually, and eligible students receive free or reduced-price lunch. Question 14 is not applicable and will be skipped.	Student eligibility is determined individually, and eligible students receive free or reduced-price lunch. Question 14 is not applicable and will be skipped.		
 All students in school receive free lunch under special provisions (e.g., Provision 2 or 3). 			
(2016 Pilot Grade 12, 2017 Operational Grades 4 and 8)	Issue: Socioeconomic Status		

Grades 4, 8, and 12 Core School			
Previous item	vill be used at all grades unless otherwise specified. 2018 item	D/A/ R/NC+	Rationale
15. If your school distributes free lunch to all students under Provision 2 or 3, what was the base year during which individual student eligibility was collected?	15. If your school distributes free lunch to all students under Provision 2 or 3, what was the base year during which individual student eligibility was collected?	NC	
This school does not distribute free lunch to all students under Provision 2 or 3—eligibility is determined annually.	This school does not distribute free lunch to all students under Provision 2 or 3—eligibility is determined annually.		
D 2017	1 2017		
© 2016	© 2016		
© 2015	© 2015		
© 2014	© 2014		
© 2013	© 2013		
© 2012 or earlier	© 2012 or earlier		
(2016 Pilot Grade 12, 2017 Operational Grades 4 and 8)	Issue: Socioeconomic Status		
16. During this school year, about what percentage of students in your school was eligible to receive a free or reduced-price lunch through the National School Lunch Program?	16. During this school year, about what percentage of students in your school was eligible to receive a free or reduced-price lunch through the National School Lunch Program?	NC	
Ø 0%	Ø 0%		
D 1–5%	D 1-5%		
© 6-10%	© 6-10%		
© 11-25%	© 11-25%		
© 26-34%	© 26-34%		
© 35-50%	© 35-50%		
© 51-75%	© 51–75%		
© 76-99%	⊕ 76–99%		
D 100%	D 100%		
(2016 Pilot Grade 12, 2017 Operational Grades 4 and 8)	Issue: Socioeconomic Status		
17. Does your school receive Title I funding? (Title I is a federally funded program that provides educational services, such as remedial reading or remedial math, to children who live in areas with high concentrations of low-income families.)	17. Does your school receive Title I funding? (Title I is a federally funded program that provides educational services, such as remedial reading or remedial math, to children who live in areas with high concentrations of low-income families.)	NC	
No No	(D) No		
D Yes, our school receives funds, which are targeted to eligible students.			
© Yes, our school receives funds, which are used for schoolwide purposes.	© Yes, our school receives funds, which are used for schoolwide purposes.		
(2016 Pilot Grade 12, 2017 Operational Grades 4 and 8)	Issue: Socioeconomic Status		

Previous ite	m									2018 item										D/A/ R/NC+	Rationale
 Approximately one circle in ea service they re services as of t 	ch row. S	Students ease report	who recei rt the perc	ve more t entage of	han one se students v	rvice show	ild be cou	nted for	each	one circle in ea service they rec	18. Approximately what percentage of students in your school receives the following services? Select one circle in each row. Students who receive more than one service should be counted for each service they receive. Please report the percentage of students who receive each of the following services as of the day you respond to this questionnaire.							NC			
	None	1-5%	6-10%	11-25%	26-50%	51-75%	76-90%	Over 90%			None	1-5%	6-10%	11-25%	26-50%	51-75% 76-	0%	Over			
a. Targeted Title I services	0	æ	Ø	۵	Ð	Ð	ø	⊕	VH241931	a. Targeted Title	0	Ð	Ø	Ø	Ð	Ð	D	®	VH241931		
 Gifted and talented program 	8	θ	0	٩	Θ	Ð	0	⊛	VH241922	h Cifted and											
c. Instruction provided in student's home language (non-English)	0	9	ø	Ø	Φ	Ð	ø	⊛	YH241923	c. Instruction provided in student's home language (non-English)	0	θ	0	٩	Ð	Ð	Ð	⊛	VH241923		
d. English-as-a- second-language (not in a bilingual education program)	Θ	0	0	۵	¢	Ð	0	⊛	VH241924	d. English-as-a- second-language (not in a bilingual education program)	0	Ð	0	۵	Ð	© ,	Ð	8	VH241924		
e. Special education	0	Φ	Ø	Ø	Φ	Ð	©	⊕	VH241925	e. Special education	0	Ð	©	Ø	Ð	Ð	Ð	⊛	VH241925		
(2015 Opera 8) 19. During a typ	ical we	ek of sc	hool, wh	nat is the	e total ni	umber of				Issue: School 19. During a typi	cal wee	k of sch				ber of regul	urly sch	edule	ed	NC	
volunteers, i	neludin	ig paren	ts, work	ing in th	te school	14				volunteers, in	icluding	g parents	s, workin	ig in the	school						
© 1-5										© 1-5											
										© 6-10											
© 6-10										@ 11-15											
© 6-10 © 11-15										@ 16-25											
										D More than	1 25										
@ 11-15	n 25																				

						des 4, 8, and 12 vill be used at all grades un							
Previous item						2018 item						D/A/ R/NC+	Rationale
 Approximately what p who do each of the fol 					uardians	20. Approximately what j who do each of the fo					uardians	NC	
	Not applicable	0-10%	11-25%	26-50%	Over 50%		Not applicable	0-10%	11-25%	26-50%	Over 50%		
 a. Volunteer regularly to help in the classroom or another part of the school 	Θ	Ð	Ø	۵	Ð	 a. Volunteer regularly to help in the classroom or another part of the school 	9	θ	Ø	۵	œ		
b. Attend teacher-parent conferences	0	Ð	©	Ø	Ð	b. Attend teacher-parent conferences	0	Ð	©	Ø	Ð		
(2015 Operationa 8)	l Grade 1	2, 2017	Operatio	nal Grad	es 4 and	Issue: School Clim	nate						
For all teacher counts en	ntered in this	item:				For all teacher counts e	ntered in this	item:				NC	
INCLUDE these ty	pes of teache			INCLUDE these t									
Regular	 Regular Special area or resource teachers (e.g., special education, Title I, art, music, 						 Regular Special area or resource teachers (e.g., special education, Title I, art, music, 						
 Special area of physical educ 		ichers (e.g., s	special educa	tion, Title I,	art, music,	 Special area of physical educed 		ichers (e.g., s	special educa	tion, Title I,	art, music,		
Long-term sul	bstitute teach	ners				Long-term su							
INCLUDE these ty	pes of teache	us:				INCLUDE these t							
• Itinerant teac	hers who tea	ch part-time	at this school	l		Itinerant tead	chers who tea	ch part-time	at this school	Ic			
 Employees rep teaching assist 	ported in othe mment at thi	er items of tl s school	his section if	they also hav	ve a part-time	 Employees re teaching assi 			his section if	they also ha	ve a part-time		
DO NOT INCLUI	DE:					DO NOT INCLU	DE:						
 Student teach 						Student teach							
Short-term su						Short-term st			0.00				
 Teachers who 	teach ONLY	pre-kinderg	arten or adul	t education		Teachers who	teach ONLY	pre-kindergi	arten or adul	t education			
 Around the first of positions or assign 						21. Around the first of positions or assign							
a. Full-time						a. Full-time							
Full	-time teacher	s				Ful	l-time teacher	s					
b. Part-time						b. Part-time							
Part	-time teacher	s				Par	t-time teacher	rs					
(2015 Operationa 8)	l Grade 1	2, 2017	Operatio	nal Grad	es 4 and	Issue: School Clim	nate						

							des 4, 8, and 2								
Previous item							2018 item		·					D/A/ R/NC+	Rationale
22. Does your scl	hool, dist	rict, or die	ocese offe	er tenure t	o teacher	s?	22. Does your sch	hool, dist	rict, or die	ocese offe	r tenure t	to teacher	rs?	NC	
Tes Ves							Tes Ves								
D No							D No								
(2017 Pilot Grad	de 8 Cor	e, Read	ing Mat	thematio	cs- All Si	ubjects)	Issue: School Climate								
23. Of the following categories of teachers who were full-time teachers at your school at the end of the last school year, what percentage stayed on as full-time teachers for this school year? Select one circle in each row.						ool at	23. Of the following ca the end of the last this school year? S	school year	what perce	ntage stayed				NC	
1.000	0-10%	11-25%	26-50%	51-75%	76-90%	Over 90%	1.	0-10%	11-25%	26-50%	51-75%	76-90%	Over 90%		
 a: Non-tenured teachers who had taught for at least 	Ø	Ð	ø	۵	Φ	œ	 a. Non-tenured teachers who had taught for at least 	Ø	θ	ø	۵	Φ	Ð		
one year b. Tenured teachers	0	Ð	Ø	Ø	Ð	©	one year b. Tenured teachers	0	œ	Ø	Ø	Ð	©		
8) 24. In the last school	ol year, hov	w many ful	ll-time tea	ichers were	e new to y	our school?	24. In the last schoo	l year, ho	w many fu	ll-time tea	chers wer	e new to y	rour school?	NC	
(2015 Operation 8)	nal Grac	de 12, 20	017 Ope	erationa	l Grade	s 4 and	Issue: School Cli	imate							
25. Of the full-time t stayed on as full-					vear, what	percentage	25. Of the full-time to stayed on as full-t					year, what	percentage	NC	
③ 0–10%							O 0–10%								
⊕ 11–25%							D 11-25%								
© 26–50%							© 26–50%								
© 51-75%							© 51-75%								
© 76-90%							© 76–90%								
© Over 90%							© Over 90%								
(2015 Operation 8)	nal Grac	de 12, 20	017 Ope	erationa	l Grade	s 4 and	Issue: School Cli	imate							

Grades 4, 8, and 12 Core School Items will be used at all grades unless otherwise specified.								
Previous item	2018 item	D/A/ R/NC+	Rationale					
26. In this school year, which of the following types of computers or other digital devices are available in your school for student use? Select all squares that apply.	26. In this school year, which of the following types of computers or other digital devices are available in your school for student use? Select all squares that apply.	NC						
Desktop computers	Desktop computers							
D Laptop computers (including Chromebooks)	D Laptop computers (including Chromebooks)							
© Tablets (for example, Surface Pro, iPad, Kindle Fire)	© Tablets (for example, Surface Pro, iPad, Kindle Fire)							
Other digital devices (Please specify):	Other digital devices (Please specify);							
(2017 Operational Grades 4 and 8)	Issue: Technology Use							
27. What is the average age of the desktop computers in your school?	27. What is the average age of the desktop computers in your school?	NC						
	O Up to 2 years old							
D More than 2 years but less than 4 years old	D More than 2 years but less than 4 years old							
© More than 4 years but less than 6 years old	© More than 4 years but less than 6 years old							
D 6 years old or more	D 6 years old or more							
D I don't know.	D I don't know.							
(2017 Operational Grades 4 and 8)	Issue: Technology Use							
 In your school, where are desktop computers available for students to work? Select all squares that apply. 	 In your school, where are desktop computers available for students to work? Select all squares that apply. 	NC						
In some classrooms	In some classrooms							
D In all classrooms	D In all classrooms							
© In a media center	© In a media center							
D In a computer lab	D In a computer lab							
D In the school library	D In the school library							
Other (Please specify):	Other (Please specify):							
(2016 Pilot Grade 12, 2017 Operational Grades 4 and 8)	Issue: Technology Use							
29. What is the total number of laptop computers (including Chromebooks) available for students in your school? Enter the number of laptop computers.	29. What is the total number of laptop computers (including Chromebooks) available for students in your school? Enter the number of laptop computers.	NC						
(2017 Operational Grades 4 and 8)	Issue: Technology Use							

Grades 4, 8, and 12 Core School Items will be used at all grades unless otherwise specified.								
Previous item	2018 item	D/A/ R/NC+	Rationale					
30. What is the average age of the laptop computers (including Chromebooks) in your school?	30. What is the average age of the laptop computers (including Chromebooks) in your school?	NC						
© Up to 2 years old	The second secon							
D More than 2 years but less than 4 years old	D More than 2 years but less than 4 years old							
© More than 4 years but less than 6 years old	© More than 4 years but less than 6 years old							
D 6 years old or more	⊕ 6 years old or more							
Φ I don't know.	Φ I don't know.							
(2017 Operational Grades 4 and 8)	Issue: Technology Use							
 In your school, where are laptop computers (including Chromebooks) available for students to work? Select all squares that apply. 	31. In your school, where are laptop computers (including Chromebooks) available for students to work? Select all squares that apply.	NC						
In some classrooms	In some classrooms							
D In all classrooms	D In all classrooms							
© In a media center	© In a media center							
D In a computer lab	D In a computer lab							
D In the school library	D In the school library							
D On mobile carts	D On mobile carts							
© Other (Please specify):	Other (Please specify):							
(2017 Operational Grades 4 and 8)	Issue: Technology Use							
32. What is the total number of tablets (for example, Surface Pro, iPad, Kindle Fire) available for students in your school? Enter the number of tablets.	32. What is the total number of tablets (for example, Surface Pro, iPad, Kindle Fire) available for students in your school? Enter the number of tablets.	NC						
(2016 Pilot Grade 12, 2017 Operational Grades 4 and 8)	Issue: Technology Use							
33. What is the average age of the tablets (for example, Surface Pro, iPad, Kindle Fire) in your school?	33. What is the average age of the tablets (for example, Surface Pro, iPad, Kindle Fire) in your school?	NC						
O Up to 2 years old	O Up to 2 years old							
More than 2 years but less than 4 years old	D More than 2 years but less than 4 years old							
© More than 4 years but less than 6 years old	© More than 4 years but less than 6 years old							
D 6 years old or more	© 6 years old or more							
D I don't know.	D I don't know.							
(2017 Operational Grades 4 and 8)	Issue: Technology Use							

Grades 4, 8, and 12 Core School Items will be used at all grades unless otherwise specified.								
Previous item	2018 item	D/A/ R/NC+	Rationale					
34. In your school, where are tablets (for example, Surface Pro, iPad, Kindle Fire) available for students to work? Select all squares that apply.	34. In your school, where are tablets (for example, Surface Pro, iPad, Kindle Fire) available for students to work? Select all squares that apply.	NC						
D In some classrooms	D In some classrooms							
D In all classrooms	D In all classrooms							
© In a media center	© In a media center							
D In a computer lab	D In a computer lab							
© In the school library	D In the school library							
D On mobile carts	D On mobile carts							
Other (Please specify):	Other (Please specify):							
(2017 Operational Grades 4 and 8) 35. In your school, is there a wireless Internet connection that students can use for schoolwork?	Issue: Technology Use 35. In your school, is there a wireless Internet connection that students can use for schoolwork?	NC						
 Yes, everywhere or almost everywhere in the school. Yes, in some areas of the school. 	 Yes, everywhere or almost everywhere in the school. Yes, in some areas of the school. 							
 Pres, in some areas of the school. No 	© No							
	0 10							
(2017 Operational Grades 4 and 8)	Issue: Technology Use							
36. This school year, did your school offer technical support to teachers for computers and tablets used in this school?	36. This school year, did your school offer technical support to teachers for computers and tablets used in this school?	NC						
• Yes, we are partnering with a provider outside the school.	Tes, we are partnering with a provider outside the school.							
${\rm I}\!$	Φ Yes, we have technical support staff in the school.							
© No	© No							
(2017 Operational Grades 4 and 8)	Issue: Technology Use							

Previous item 2018 item															D/A/ R/NC+	Rationale
37. How often do te	achers do t	the followi	ing in this	school? Se	lect one ci	rcle in each	row.	37. How often do teac	chers do th	e following in	this school	Select one o	circle in each	row.	NC	
	Neve	r onc	eor or cea ty		About once or twice a week	Every day or almost every day	Several times a day		Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	Several times a day		
 Teach jointly as a team in the same class 	8	d	Þ	ø	Φ	Φ	Ð	a. Teach jointly as a team in the same class	00	Φ	ø	Φ	Ð	Ð		
 Observe other teachers' classes and provide feedback 	۲	d	D	ø	٩	Φ	٢	 b. Observe other teachers' classes and provide feedback 	۹	Φ	©	Θ	Φ	Ð		
 Engage in discussions about the learning development of specific students 	0	a	Þ	Q	0	Φ	œ	c. Engage in discussions about the learning development of specific students	0	Ð	Ø	Φ	Ð	®		
 Work with other teachers during common planning times to ensure common standard in evaluations for assessing student progress 	s ©	d	Þ	0	Ø	θ	٥	d. Work with other teachers during common planning times to ensure common standards in evaluations for assessing student progress	Ø	θ	0	Ø	θ	Ø		
2017 Operati 18. Of the students doing each of the	in last year	's graduat	ing class, a	pproximat	ely what p	percentage is	5	Issue: School C 18. Of the students in doing each of the f	last year's				percentage is	5	NC	This item is used
	0-5%	6-10%	11-25%	26-50%	51-75%	Over 75%	I don't know.		0-5%	6-10% 11-	-25% 26-5	0% 51-759	% Over 75%	I don't know.		
Attending a two-year college	9	θ	0	0	Θ	©	©	a. Attending a two-year college	0	Ð	0 0	Θ	Ð	G		
	8	9	ø	0	Φ	©	ø	b. Attending a four-year college	Ø	œ	0 0	Ð	Ð	©		
Attending a four-year college		θ	9	Ø	θ	®	ø	c. Attending a vocational- technical or business school	0	ap .	0 0	Φ	Ø	©		
. Attending a	0	Ð	Q	0	Φ	®	©	d. Working for pay	Ø	D	0 0	Φ	®	©		
Attending a four-year college Attending a vocational- technical or business	8				100	1.1	1.1.1.1	e. Serving in the military (excluding	8	θ	0 0	θ	®	G		

Items w	vill be used at all grades unless otherwise specifi	ed.			
Previous item	2018 item			D/A/ R/NC+	Rationale
17. Does your school offer any of the following services to students on a regular basis? Select all squares that apply.	 Does your school offer any of the following ser basis? Select one circle in each row. 	R	This item was revised from a		
Career and technical education workshops		No	I	multiple	
Career counseling services or programs	a. Career and technical education workshops	0	Ð		selection
O Job placement services	b. Career counseling services or programs		I	multiple choice	
	c. Job placement services	۲	0		item to a matrix
Career days or job fairs	d. Career days or job fairs	Ø	¢	1	
Career or employment readiness workshops	e. Career or employment readiness workshops	Ø	Φ		item to improve the data
(2015 Operational Grade 12)	Issue: School Climate		collection. This item is used at		
					grade 12 only

Appendix I-3b: 2018 Operational Grade 8 Core (SCP)

1. What is your sex?

- Male
 Male
- Female

VH240382

- 2. What grades are taught in your school? Select **all** squares that apply.
 - Pre-kindergarten
 - [®] Kindergarten
 - © 1st grade
 - ② 2nd grade
 - © 3rd grade
 - ① 4th grade
 - © 5th grade
 - ⊕ 6th grade
 - ☑ 7th grade
 - ☑ 8th grade
 - © 9th grade
 - ◻ 10th grade
 - ℬ 11th grade
 - 12th grade

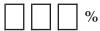
- Elementary school
- Middle or junior high school
- © Secondary school
- Regular school with a magnet program
- © A magnet school or a school with a special program emphasis, e.g., science/mathematics school, performing arts school, talented/gifted school, foreign language immersion school
- © Special education school: primarily serves students with disabilities
- © Alternative school: offers a curriculum designed to provide alternative or nontraditional education, not clearly categorized as regular, special, or vocational education
- Private independent school
- Private religiously affiliated school
- Independent charter school
- © Charter school administered by local school district
- O Other (Please specify):

- **4.** Please identify the organization(s) listed below to which your school is most closely affiliated. Select **all** squares that apply.
 - American Association of Christian Schools
 - (B) Association of Christian Schools International
 - © Christian Schools International
 - National Association of Episcopal Schools
 - © National Association of Independent Schools
 - © National Catholic Educational Association
 - © National Society of Hebrew Day Schools
 - The Association of Boarding Schools
 - Other (Please specify):
 - \bigcirc Not affiliated with any organization

5. What is the current enrollment in your school?



6. Approximately what percentage of eighth-graders in your school is new this year?



7. About what percentage of this year's eighth-graders was held back and is repeating eighth grade?

- **(A)** 0%
- 1-2%
- © 3–5%
- © 6-10%
- More than 10%

VH240208

VH253912

VH253943

- **8.** Of the students currently enrolled in your school, what percentage has been identified as limited-English proficient?
 - Ø 0%
 - 1-5%
 - © 6–10%
 - © 11–25%
 - © 26–50%
 - © 51-75%
 - © 76–90%
 - Over 90%

2018 Operational and 2019 Pilot Grade 8 Core School Items

9. Last school year, approximately what percentage of students at your school enrolled after the first day of school?

- **(A)** 0%
- 1–3%
- © 4-6%
- © 7-10%
- © 11–20%
- © Over 20%

VH240209

- **10.** Last school year, approximately what percentage of students at your school left before the end of the school year?
 - **(A)** 0%
 - 1–3%
 - © 4–6%
 - © 7–10%
 - © 11–20%
 - © Over 20%

- **11.** About what percentage of your students is absent on an average day? (Include excused and unexcused absences in calculating this rate.)

 - 3–5%
 - © 6-10%
 - \square More than 10%

5

2018 Operational and 2019 Pilot Grade 8 Core School Items

- **12.** About what percentage of your teachers is absent on an average day? (Include all absences in calculating this rate.)

 - 3–5%
 - © 6–10%
 - More than 10%
- 13. Does your school participate in the National School Lunch Program?
 - le Yes
 - (B) No Questions 4–6 are not applicable and will be skipped.
- 14. How does the school operate the program?
 - Student eligibility is determined individually, and eligible students receive free or reduced-price lunch. *Question 14 is not applicable and will be skipped.*
 - (D) All students in school receive free lunch under special provisions (e.g., Provision 2 or 3).

VH240217

- **15.** If your school distributes free lunch to all students under Provision 2 or 3, what was the **base year** during which individual student eligibility was collected?
 - This school does not distribute free lunch to all students under Provision 2 or 3—eligibility is determined annually.
 - ® 2017
 - © 2016
 - © 2015
 - © 2014
 - © 2013
 - © 2012 or earlier

VH240215

VH240216

2018 Operational and 2019 Pilot Grade 8 Core School Items

16. During this school year, about what percentage of students in your school was eligible to receive a free or reduced-price lunch through the National School Lunch Program?

- **(A)** 0%
- 1-5%
- © 6-10%
- ℗ 11–25%
- © 26-34%
- © 35-50%
- © 51-75%
- ⊕ 76–99%
- O 100%

17. Does your school receive Title I funding? (Title I is a federally funded program that provides educational services, such as remedial reading or remedial math, to children who live in areas with high concentrations of low-income families.)

(No

- [®] Yes, our school receives funds, which are targeted to eligible students.
- © Yes, our school receives funds, which are used for schoolwide purposes.

VH240218

2018 Operational and 2019 Pilot Grade 8 Core School Items

18. Approximately what percentage of students in your school receives the following services? Select one circle in each row. Students who receive more than one service should be counted for each service they receive. Please report the percentage of students who receive each of the following services as of the day you respond to this questionnaire.

		None	1–5%	6–10%	11–25%	26–50%	51-75%	76-90%	Over 90%	
a.	Targeted Title I services	A	B	O	Ø	Ē	Ē	G	Ð	VH241931
b.	Gifted and talented program	8	B	0	Ø	Ē	Ð	G	₿	VH241922
C.	Instruction provided in student's home language (non-English)	(9	₿	0	0	Θ	Θ	0	⊕	VH241923
d.	English-as-a- second-language (not in a bilingual education program)	Ø	®	Q	Ø	Ē	Ē	Q	æ	VH241924
e.	Special education	Ø	B	Õ	Ø	Ē	Ð	G	æ	VH241925

- 19. During a typical week of school, what is the total number of regularly scheduled volunteers, including parents, working in the school?

 - 1-5
 - © 6-10

 - © 16-25
 - ① More than 25

20. Approximately what percentage of students in your school have parents or guardians who do each of the following activities? Select **one** circle in each row.

	Not applicable	0–10%	11-25%	26–50%	Over 50%	
a. Volunteer regularly to help in the classroom or another part of the school	Ø	®	Ø	Ø	©	VH241940
b. Attend teacher–parent conferences	A	B	O	Ø	Ē	VH241939

For all teacher counts entered in this item:

INCLUDE these types of teachers:

- Regular
- Special area or resource teachers (e.g., special education, Title I, art, music, physical education)
- Long-term substitute teachers

INCLUDE these types of teachers:

- Itinerant teachers who teach part-time at this school
- Employees reported in other items of this section if they also have a part-time teaching assignment at this school

DO NOT INCLUDE:

- Student teachers
- Short-term substitute teachers
- Teachers who teach ONLY pre-kindergarten or adult education
- **21.** Around the first of October, how many TEACHERS held full-time or part-time positions or assignments in this school? *If none, mark (0) in the boxes.*

a. Full-time

_____ Full-time teachers

b. Part-time

_____ Part-time teachers

485

VH241938

- (A) Yes
- B No
 No

23. Of the following categories of teachers who were full-time teachers at your school at the end of the last school year, what percentage stayed on as full-time teachers for this school year? Select **one** circle in each row.

	0–10%	11-25%	26-50%	51-75%	76–90%	Over 90%	
a. Non-tenured teachers who had taught for at least one year	(9	ß	O	Ø	G	¢	VH241943
b. Tenured teachers	A	B	O	O	Ē	Ē	VH241942

24. In the last school year, how many full-time teachers were new to your school?

	1 1
	1 1

VH240222

- **25.** Of the full-time teachers who were new to your school last year, what percentage stayed on as full-time teachers for this school year?
 - ᢙ 0−10%
 - 11–25%
 - © 26–50%
 - © 51-75%
 - © 76–90%
 - © Over 90%

VH547401

VH241941

2018 Operational and 2019 Pilot Grade 8 Core School Items

- Desktop computers
- Laptop computers (including Chromebooks)
- © Tablets (for example, Surface Pro, iPad, Kindle Fire)
- Other digital devices (Please specify):

VH591899

27. What is the average age of the desktop computers in your school?

- ③ Up to 2 years old
- (B) More than 2 years but less than 4 years old
- © More than 4 years but less than 6 years old
- © I don't know.

- **28.** In your school, where are **desktop computers** available for students to work? Select **all** squares that apply.
 - In some classrooms
 - In all classrooms
 - © In a media center
 - D In a computer lab
 - © In the school library
 - © Other (Please specify):

29. What is the total number of **laptop computers** (including Chromebooks) available for students in your school? Enter the number of laptop computers.



- Up to 2 years old
- (B) More than 2 years but less than 4 years old
- © More than 4 years but less than 6 years old
- 6 years old or more
- I don't know.

VH587118

- **31.** In your school, where are **laptop computers** (including Chromebooks) available for students to work? Select **all** squares that apply.
 - In some classrooms
 - In all classrooms
 - © In a media center
 - In a computer lab
 - © In the school library
 - © On mobile carts
 - © Other (Please specify):

32. What is the total number of **tablets** (for example, Surface Pro, iPad, Kindle Fire) available for students in your school? Enter the number of tablets.

\square	\square	\square

- (Up to 2 years old
- (D) More than 2 years but less than 4 years old
- © More than 4 years but less than 6 years old
- © 6 years old or more
- I don't know.

34. In your school, where are **tablets** (for example, Surface Pro, iPad, Kindle Fire) available for students to work? Select **all** squares that apply.

- In some classrooms
- In all classrooms
- © In a media center
- In a computer lab
- © In the school library
- © On mobile carts
- © Other (Please specify):_____

VH587138

VH587131

- Tes, everywhere or almost everywhere in the school.
- [®] Yes, in some areas of the school.
- © No

36. This school year, did your school offer technical support to teachers for **computers** and **tablets** used in this school?

- Tes, we are partnering with a provider outside the school.
- [®] Yes, we have technical support staff in the school.
- © No

		Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	Several times a day	
	ach jointly as a am in the same ass	A	ß	0	0	Ē	Ð	VH311410
tea and	oserve other achers' classes d provide edback	۵	6	0	Θ	Ē	θ	VH311411
dis the dev	gage in scussions about e learning velopment of ecific students	Ø	6	Q	Ø	¢	¢	VH311414
tea cor tim cor in c ass	ork with other achers during mmon planning nes to ensure mmon standards evaluations for sessing student ogress	Ø	®	Q	Ø	©	Ð	VH311415

37. How often do teachers do the following in this school? Select **one** circle in each row.

VH617375

VH311409

VH617371

490

Appendix I-3c: Pilot Grade 4 Core (SCP)

Note that pilot items are labeled as 2019 pilot which indicates that they will be piloted in 2018 for operational use in 2019.

1. What is your sex?

- Male
 Male
- Female

VH240382

- 2. What grades are taught in your school? Select **all** squares that apply.
 - Pre-kindergarten
 - [®] Kindergarten
 - © 1st grade
 - D 2nd grade
 - © 3rd grade
 - © 4th grade
 - © 5th grade
 - ⊕ 6th grade
 - ☑ 7th grade
 - ☑ 8th grade
 - © 9th grade
 - ☑ 10th grade

 - D 12th grade

- 3. Can your school be described by any of the following? Select all squares that apply.
 - Elementary school
 - Middle or junior high school
 - © Secondary school
 - Regular school with a magnet program
 - © A magnet school or a school with a special program emphasis, e.g., science/mathematics school, performing arts school, talented/gifted school, foreign language immersion school
 - © Special education school: primarily serves students with disabilities
 - © Alternative school: offers a curriculum designed to provide alternative or nontraditional education, not clearly categorized as regular, special, or vocational education
 - Private independent school
 - Private religiously affiliated school
 - Independent charter school
 - © Charter school administered by local school district
 - O Other (Please specify):

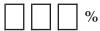
- **4.** Please identify the organization(s) listed below to which your school is most closely affiliated. Select **all** squares that apply.
 - American Association of Christian Schools
 - (B) Association of Christian Schools International
 - © Christian Schools International
 - National Association of Episcopal Schools
 - © National Association of Independent Schools
 - © National Catholic Educational Association
 - © National Society of Hebrew Day Schools
 - The Association of Boarding Schools
 - Other (Please specify):
 - ⑦ Not affiliated with any organization

VH720977

5. What is the current enrollment in your school?



6. Approximately what percentage of fourth-graders in your school is new this year?



7. About what percentage of this year's fourth-graders was held back and is repeating fourth grade?

- **(A)** 0%
- 1-2%
- © 3–5%
- © 6–10%
- © More than 10%

VH240208

- **8.** Of the students currently enrolled in your school, what percentage has been identified as limited-English proficient?

 - 1-5%
 - © 6–10%
 - © 11–25%
 - © 26–50%
 - © 51-75%
 - © 76–90%
 - Over 90%

VH253912

VH253923

9. Last school year, approximately what percentage of students at your school enrolled after the first day of school?

- **(A)** 0%
- 1-3%
- © 4-6%
- D 7-10%
- © 11–20%
- © Over 20%

VH240209

- **10.** Last school year, approximately what percentage of students at your school left before the end of the school year?
 - **(A)** 0%
 - 1–3%
 - © 4-6%
 - **D** 7–10%
 - © 11–20%
 - © Over 20%

- **11.** About what percentage of your students is absent on an average day? (Include excused and unexcused absences in calculating this rate.)
 - O→2%
 - 3–5%
 - © 6–10%
 - D More than 10%

- **12.** About what percentage of your teachers is absent on an average day? (Include all absences in calculating this rate.)

 - 3–5%
 - © 6–10%
 - More than 10%

VH240215

VH240212

- 13. Does your school participate in the National School Lunch Program?
 - (A) Yes
 - B No
 No
- **14.** How does the school operate the program?
 - Student eligibility is determined individually, and eligible students receive free or reduced-price lunch.
 - (D) All students in school receive free lunch under special provisions (e.g., Provision 2 or 3).

VH240217

- **15.** If your school distributes free lunch to all students under Provision 2 or 3, what was the **base year** during which individual student eligibility was collected?
 - This school does not distribute free lunch to all students under Provision 2 or 3—eligibility is determined annually.
 - [®] 2017
 - © 2016
 - © 2015
 - © 2014
 - © 2013
 - © 2012 or earlier

16. During this school year, about what percentage of students in your school was eligible to receive a free or reduced-price lunch through the National School Lunch Program?

- **(A)** 0%
- 1-5%
- © 6-10%
- ℗ 11–25%
- © 26-34%
- © 35-50%
- © 51-75%
- ⊕ 76–99%
- O 100%

17. Does your school receive Title I funding? (Title I is a federally funded program that provides educational services, such as remedial reading or remedial math, to children who live in areas with high concentrations of low-income families.)

(No

- (1) Yes, our school receives funds, which are targeted to eligible students.
- © Yes, our school receives funds, which are used for schoolwide purposes.

VH240218

2019 Pilot Grade 4 Core School Items

18. Approximately what percentage of students in your school receives the following services? Select one circle in each row. Students who receive more than one service should be counted for each service they receive. Please report the percentage of students who receive each of the following services as of the day you respond to this questionnaire.

		None	1–5%	6–10%	11–25%	26–50%	51–75%	76-90%	Over 90%	
a.	Targeted Title I services	Ø	B	0	Ø	Ē	Ð	G	æ	VH241931
b.	Gifted and talented program	8	B	0	Ø	Ē	Ð	G	₿	VH241922
C.	Instruction provided in student's home language (non-English)	6	ഀ	0	Ø	Θ	Θ	0	⊕	VH241923
d.	English-as-a- second-language (not in a bilingual education program)	6	ß	Q	Ø	Ē	Ē	Q	æ	VH241924
e.	Special education	Ø	B	Ô	Ø	Ē	Ð	G	⊕	VH241925

- 19. During a typical week of school, what is the total number of regularly scheduled volunteers, including parents, working in the school?

 - 1-5
 - © 6-10

 - © 16-25
 - ① More than 25

20. Approximately what percentage of students in your school have parents or guardians who do each of the following activities? Select **one** circle in each row.

	Not applicable	0–10%	11-25%	26–50%	Over 50%	
a. Volunteer regularly to help in the classroom or another part of the school	0	®	Ø	Ø	©	VH241940
b. Attend teacher–parent conferences	Ø	B	O	Ø	Ē	VH241939

For all teacher counts entered in this item:

INCLUDE these types of teachers:

- Regular
- Special area or resource teachers (e.g., special education, Title I, art, music, physical education)
- Long-term substitute teachers

INCLUDE these types of teachers:

- Itinerant teachers who teach part-time at this school
- Employees reported in other items of this section if they also have a part-time teaching assignment at this school

DO NOT INCLUDE:

- Student teachers
- Short-term substitute teachers
- Teachers who teach ONLY pre-kindergarten or adult education
- **21.** Around the first of October, how many TEACHERS held full-time or part-time positions or assignments in this school? *If none, mark (0) in the boxes.*

8

a. Full-time

_____ Full-time teachers

b. Part-time

_____ Part-time teachers

499

VH241938

- (A) Yes
- B No

23. Of the following categories of teachers who were full-time teachers at your school at the end of the last school year, what percentage stayed on as full-time teachers for this school year? Select **one** circle in each row.

	0–10%	11-25%	26-50%	51-75%	76–90%	Over 90%	
a. Non-tenured teachers who had taught for at least one year	Ø	ß	O	Ø	G	¢	VH241943
b. Tenured teachers	A	B	O	O	Ē	Ē	VH241942

24. In the last school year, how many full-time teachers were new to your school?

_	 	 _
		I I

VH240222

- **25.** Of the full-time teachers who were new to your school last year, what percentage stayed on as full-time teachers for this school year?

 - 11–25%
 - © 26–50%
 - © 51-75%
 - © 76-90%
 - © Over 90%

VH547401

VH241941

- Desktop computers
- Laptop computers (including Chromebooks)
- © Tablets (for example, Surface Pro, iPad, Kindle Fire)
- Other digital devices (Please specify):

VH591899

- 27. What is the average age of the **desktop computers** in your school?
 - Up to 2 years old
 - (B) More than 2 years but less than 4 years old
 - © More than 4 years but less than 6 years old
 - 6 years old or more
 - I don't know.

- **28.** In your school, where are **desktop computers** available for students to work? Select **all** squares that apply.
 - O In some classrooms
 - In all classrooms
 - © In a media center
 - In a computer lab
 - © In the school library
 - Other (Please specify): _____

29. What is the total number of **laptop computers** (including Chromebooks) available for students in your school? Enter the number of laptop computers.

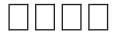


- Up to 2 years old
- [®] More than 2 years but less than 4 years old
- © More than 4 years but less than 6 years old
- 6 years old or more
- I don't know.

VH587118

- **31.** In your school, where are **laptop computers** (including Chromebooks) available for students to work? Select **all** squares that apply.
 - In some classrooms
 - In all classrooms
 - © In a media center
 - In a computer lab
 - © In the school library
 - © On mobile carts
 - © Other (Please specify):

32. What is the total number of **tablets** (for example, Surface Pro, iPad, Kindle Fire) available for students in your school? Enter the number of tablets.



33. What is the average age of the **tablets** (for example, Surface Pro, iPad, Kindle Fire) in your school?

- Up to 2 years old
- (D) More than 2 years but less than 4 years old
- © More than 4 years but less than 6 years old
- © 6 years old or more
- I don't know.

34. In your school, where are **tablets** (for example, Surface Pro, iPad, Kindle Fire) available for students to work? Select **all** squares that apply.

- In some classrooms
- In all classrooms
- © In a media center
- In a computer lab
- © In the school library
- © On mobile carts
- © Other (Please specify):_____

VH587131

- [®] Yes, everywhere or almost everywhere in the school.
- [®] Yes, in some areas of the school.
- © No

36. This school year, did your school offer technical support to teachers for computers and tablets used in this school?

- [®] Yes, we are partnering with a provider outside the school.
- [®] Yes, we have technical support staff in the school.
- © No

	Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	Several times a day	
a. Teach jointly as team in the sam class		®	O	0	Ē	Ð	VH311410
b. Observe other teachers' classes and provide feedback	3 @	ß	0	Θ	θ	θ	VH311411
c. Engage in discussions about the learning development of specific students	A	6	Ø	Ø	Θ	¢	VH311414
d. Work with other teachers during common planni times to ensure common standa in evaluations for assessing studer progress	ng rds ® or	®	©	Ø	©	Ð	VH311415

37. How often do teachers do the following in this school? Select one circle in each row.

VH617375

VH311409

VH617371

504

Appendix I-3d: Pilot Grade 12 Core (SCP)

Note that pilot items are labeled as 2019 pilot which indicates that they will be piloted in 2018 for operational use in 2019.

1. What is your sex?

- Male
 Male
- Female

VH240382

- 2. What grades are taught in your school? Select **all** squares that apply.
 - Pre-kindergarten
 - [®] Kindergarten
 - © 1st grade
 - D 2nd grade
 - © 3rd grade
 - © 4th grade
 - © 5th grade
 - ⊕ 6th grade
 - ☑ 7th grade
 - ☑ 8th grade
 - © 9th grade
 - ☑ 10th grade
 - ℬ 11th grade
 - 12th grade

- 3. Can your school be described by any of the following? Select all squares that apply.
 - Elementary school
 - Middle or junior high school
 - © Secondary school
 - Regular school with a magnet program
 - © A magnet school or a school with a special program emphasis, e.g., science/mathematics school, performing arts school, talented/gifted school, foreign language immersion school
 - © Special education school: primarily serves students with disabilities
 - © Alternative school: offers a curriculum designed to provide alternative or nontraditional education, not clearly categorized as regular, special, or vocational education
 - Private independent school
 - Private religiously affiliated school
 - Independent charter school
 - © Charter school administered by local school district
 - O Other (Please specify):

- **4.** Please identify the organization(s) listed below to which your school is most closely affiliated. Select **all** squares that apply.
 - American Association of Christian Schools
 - (B) Association of Christian Schools International
 - © Christian Schools International
 - National Association of Episcopal Schools
 - © National Association of Independent Schools
 - © National Catholic Educational Association
 - © National Society of Hebrew Day Schools
 - The Association of Boarding Schools
 - Other (Please specify):
 - ⑦ Not affiliated with any organization

VH720977

5. What is the current enrollment in your school?



6. Approximately what percentage of twelfth-graders in your school is new this year?



VH240208

VH253912

VH253948

- 7. Of the students currently enrolled in your school, what percentage has been identified as limited-English proficient?
 - **(A)** 0%
 - 1-5%
 - © 6–10%
 - ℗ 11–25%
 - © 26–50%
 - © 51-75%
 - © 76–90%
 - Over 90%

VH240209

- 8. Last school year, approximately what percentage of students at your school enrolled after the first day of school?
 - **(D)**
 - 1–3%
 - © 4-6%
 - © 7–10%
 - © 11-20%
 - © Over 20%

3

- **9.** Last school year, approximately what percentage of students at your school left before the end of the school year?
 - **(A)** 0%
 - 1–3%
 - © 4–6%
 - © 7–10%
 - © 11–20%
 - © Over 20%

VH240211

VH240210

- **10.** About what percentage of your students is absent on an average day? (Include excused and unexcused absences in calculating this rate.)

 - 3–5%
 - © 6–10%
 - \square More than 10%

- **11.** About what percentage of your teachers is absent on an average day? (Include all absences in calculating this rate.)
 - 0-2%
 - 3–5%
 - © 6–10%
 - D More than 10%

- 12. Does your school participate in the National School Lunch Program?
 - (A) Yes

- 13. How does the school operate the program?
 - Student eligibility is determined individually, and eligible students receive free or reduced-price lunch. →
 - (All students in school receive free lunch under special provisions (e.g., Provision 2 or 3).

VH240217

VH240216

- **14.** If your school distributes free lunch to all students under Provision 2 or 3, what was the **base year** during which individual student eligibility was collected?
 - This school does not distribute free lunch to all students under Provision 2 or 3—eligibility is determined annually.
 - B 2017
 - © 2016
 - © 2015
 - © 2014
 - © 2013
 - © 2012 or earlier

VH240218

- **15.** During this school year, about what percentage of students in your school was eligible to receive a free or reduced-price lunch through the National School Lunch Program?

 - 1–5%
 - © 6–10%
 - © 11–25%
 - © 26-34%
 - © 35–50%
 - © 51–75%
 - ⊕ 76–99%
 - O 100%

5

- **16.** Does your school receive Title I funding? (Title I is a federally funded program that provides educational services, such as remedial reading or remedial math, to children who live in areas with high concentrations of low-income families.)
 - No
 - (1) Yes, our school receives funds, which are targeted to eligible students.
 - © Yes, our school receives funds, which are used for schoolwide purposes.
- 17. Approximately what percentage of students in your school receives the following services? Select **one** circle in each row. Students who receive more than one service should be counted for each service they receive. Please report the percentage of students who receive each of the following services as of the day you respond to this questionnaire.

		None	1–5%	6–10%	11–25%	26–50%	51–75%	76-90%	Over 90%	
a.	Targeted Title I services	Ø	®	Ô	Ø	Ē	Ð	G	æ	VH241931
b.	Gifted and talented program	Ø	B	O	Ø	Ē	Ð	0	₿	VH241922
C.	Instruction provided in student's home language (non-English)	6	₿	O	0	Θ	Ð	0	⊕	VH241923
d.	English-as-a- second-language (not in a bilingual education program)	Ø	ß	Q	Ø	Ē	Ē	Ø	⊕	VH241924
e.	Special education	A	B	O	D	Ē	Ē	G	Ð	VH241925

							_		
		0–5%	6–10%	11–25%	26–50%	51–75%	Over 75%	I don't know.	
a.	Attending a two-year college	${}^{\bigcirc}$	®	O	0	Ē	θ	G	VH241933
b.	Attending a four-year college	A	®	Ô	Ø	Ē	Ē	G	VH241935
c.	Attending a vocational- technical or business school	8	®	©	Ø	Ē	Ē	G	VH241934
d.	Working for pay	A	®	©	O	Ē	Ē	G	VH241937
e.	Serving in the military (excluding ROTC and military academies)	8	®	O	Ø	¢	¢	G	VH241936

18. Of the students in last year's graduating class, approximately what percentage is doing each of the following? Select **one** circle in each row.

19. Does your school offer any of the following services to students on a regular basis? Select **one** circle in each row.

	Yes	No	
a. Career and technical education workshops	Ø	ß	VH741200
b. Career counseling services or programs	A	B	VH741201
c. Job placement services	A	B	VH741202
d. Career days or job fairs	A	B	VH741203
e. Career or employment readiness workshops	0	ß	VH741204

VH240220

VH241938

- **20.** During a typical week of school, what is the total number of regularly scheduled volunteers, including parents, working in the school?

 - © 6-10
 - © 11-15
 - © 16-25
 - © More than 25
- **21.** Approximately what percentage of students in your school have parents or guardians who do each of the following activities? Select **one** circle in each row.

	Not applicable	0–10%	11-25%	26–50%	Over 50%	
a. Volunteer regularly to help in the classroom or another part of the school	0	₿	O	Ø	©	VH241940
b. Attend teacher–parent conferences	Ø	B	O	Ø	Ē	VH241939

For all teacher counts entered in this item:

INCLUDE these types of teachers:

- Regular
- Special area or resource teachers (e.g., special education, Title I, art, music, physical education)
- Long-term substitute teachers

INCLUDE these types of teachers:

- Itinerant teachers who teach part-time at this school
- Employees reported in other items of this section if they also have a part-time teaching assignment at this school

DO NOT INCLUDE:

- Student teachers
- Short-term substitute teachers
- Teachers who teach ONLY pre-kindergarten or adult education
- **22.** Around the first of October, how many TEACHERS held full-time or part-time positions or assignments in this school? *If none, mark (0) in the boxes.*

a. Full-time

_____ Full-time teachers

b. Part-time

_____ Part-time teachers

- **23.** Does your school, district, or diocese offer tenure to teachers?
 - Tes Yes
 - B No

24. Of the following categories of teachers who were full-time teachers at your school at the end of the last school year, what percentage stayed on as full-time teachers for this school year? Select **one** circle in each row.

	0–10%	11-25%	26–50%	51-75%	76–90%	Over 90%	
a. Non-tenured teachers who had taught for at least one year	Ø	ß	O	Ø	Ē	¢	VH241943
b. Tenured teachers	A	B	O	O	Ē	Ē	VH241942

25. In the last school year, how many full-time teachers were new to your school?



→

- VH240222
- **26.** Of the full-time teachers who were new to your school last year, what percentage stayed on as full-time teachers for this school year?

 - 11–25%
 - © 26–50%
 - © 51-75%
 - © 76-90%
 - © Over 90%

515

VH241941

2019 Pilot Grade 12 Core School Items

- Desktop computers
- Laptop computers (including Chromebooks)
- © Tablets (for example, Surface Pro, iPad, Kindle Fire)
- Other digital devices (Please specify):

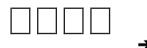
VH591899

28. What is the average age of the desktop computers in your school?

- Up to 2 years old
- (D) More than 2 years but less than 4 years old
- © More than 4 years but less than 6 years old
- © 6 years old or more
- © I don't know.

- **29.** In your school, where are **desktop computers** available for students to work? Select **all** squares that apply.
 - O In some classrooms
 - In all classrooms
 - © In a media center
 - D In a computer lab
 - © In the school library
 - © Other (Please specify):

30. What is the total number of **laptop computers** (including Chromebooks) available for students in your school? Enter the number of laptop computers.



- **31.** What is the average age of the **laptop computers** (including Chromebooks) in your school?
 - ^(C) Up to 2 years old
 - (B) More than 2 years but less than 4 years old
 - © More than 4 years but less than 6 years old
 - 6 years old or more
 - I don't know.
- **32.** In your school, where are **laptop computers** (including Chromebooks) available for students to work? Select **all** squares that apply.
 - In some classrooms
 - In all classrooms
 - © In a media center
 - In a computer lab
 - © In the school library
 - ⑦ On mobile carts
 - © Other (Please specify):_____

VH587129

33. What is the total number of **tablets** (for example, Surface Pro, iPad, Kindle Fire) available for students in your school? Enter the number of tablets.



- **34.** What is the average age of the **tablets** (for example, Surface Pro, iPad, Kindle Fire) in your school?
 - ③ Up to 2 years old
 - (D) More than 2 years but less than 4 years old
 - © More than 4 years but less than 6 years old
 - 6 years old or more
 - I don't know.
- **35.** In your school, where are **tablets** (for example, Surface Pro, iPad, Kindle Fire) available for students to work? Select **all** squares that apply.
 - In some classrooms
 - In all classrooms
 - © In a media center
 - In a computer lab
 - © In the school library
 - On mobile carts
 - © Other (Please specify):

518

VH587138

VH311502

- Tes, everywhere or almost everywhere in the school.
- [®] Yes, in some areas of the school.
- © No

37. This school year, did your school offer technical support to teachers for **computers** and **tablets** used in this school?

- Tes, we are partnering with a provider outside the school.
- [®] Yes, we have technical support staff in the school.
- © No

	Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	Several times a day	
a. Teach jointly as a team in the same class	Ø	®	O	Ø	Ē	Ð	VH311410
b. Observe other teachers' classes and provide feedback	۵	ß	0	Ø	Ē	θ	VH311411
c. Engage in discussions about the learning development of specific students	Ø	6	Ø	Ø	¢	Ð	VH311414
d. Work with other teachers during common planning times to ensure common standards in evaluations for assessing student progress	æ	\$	O	Ø	¢	¢	VH311415

38. How often do teachers do the following in this school? Select **one** circle in each row.

VH617375

VH617371

VH311409

519

Appendix I-3e: Summary of Revisions 2018 Grades 4, 8, and 12 Core Charter School

	4, 8, and 12 Core Charter School		
Previous item	vill be used at all grades unless otherwise specified. 2018 item	D/A/ R/NC+	Rationale
1. Is your school a public charter school?	1. Is your school a public charter school?	NC	
(A charter school is a public school that, in accordance with an enabling state statute, has been granted a charter exempting it from selected state or local rules and regulations. A charter school may be a newly created school, or it may previously have been a public or private school.)	(A charter school is a public school that, in accordance with an enabling state statute, has been granted a charter exempting it from selected state or local rules and regulations. A charter school may be a newly created school, or it may previously have been a public or private school.)		
(D) Yes	D Yes		
In \neg Questions 2–8 are not applicable and will be skipped.	The set of t		
(2016 Pilot Grade 12, 2017 Operational Grades 4 and 8)	Issue: School Climate		
2. In which year did your school start providing instruction as a charter school?	2. In which year did your school start providing instruction as a charter school?	NC	
(2015 Operational Grade 12, 2017 Operational Grades 4 and 8)	Issue: School Climate		
3. Who granted your school's current charter?	3. Who granted your school's current charter?	NC	
© School district	© School district		
State board of education (includes state board of regents and District of Columbia State Board of Education)	D State board of education (includes state board of regents and District of Columbia State Board of Education)		
© Postsecondary institution	© Postsecondary institution		
State charter-granting agency	D State charter-granting agency		
D Other (specify):	D Other (specify):		
(2015 Operational Grade 12, 2017 Operational Grades 4 and 8)	Issue: School Climate		
4. What is the legal status of your school?	4. What is the legal status of your school?	NC	
Officially part of the school district or local education agency (LEA)	Officially part of the school district or local education agency (LEA)		
Independent from the school district or local education agency (LEA)	Independent from the school district or local education agency (LEA)		
© A separate local education agency (LEA) as stipulated by state law	 C A separate local education agency (LEA) as stipulated by state law 		
(2015 Operational Grade 12, 2017 Operational Grades 4 and 8)	Issue: School Climate		

Items will be used at all grades unless otherwise specified. Previous item D/A/ Rationale						
Previous item		R/NC+	Rationale			
5. Is this school operated by a company or organization that also operates other charter schools?	5. Is this school operated by a company or organization that also operates other charter schools?	NC				
The Second Secon	© Yes					
D No	D No					
(2015 Operational Grade 12, 2017 Operational Grades 4 and 8)	Issue: School Climate					
6. Which one of the following best describes your charter school's primary focus in terms of program content?	6. Which one of the following best describes your charter school's primary focus in terms of program content?	NC				
D We have a comprehensive curriculum with no specialized area of focus.	We have a comprehensive curriculum with no specialized area of focus.					
We have a special curricular focus, for example, the arts, math/science, foreign language immersion.	We have a special curricular focus, for example, the arts, math/science, foreign language immersion.					
Our curriculum is based on a particular educational theory, for example, Montessori, open school, Core Knowledge.	 Our curriculum is based on a particular educational theory, for example, Montessori, open school, Core Knowledge. 					
Our curriculum is based on a particular moral philosophy or set of values, for example, African-centered education, character-based education, Eastern philosophy.	Our curriculum is based on a particular moral philosophy or set of values, for example, African-centered education, character-based education, Eastern philosophy.					
(2015 Operational Grade 12, 2017 Operational Grades 4 and 8)	Issue: School Climate					
7. Does your school provide a written contract for parents?	7. Does your school provide a written contract for parents?	NC				
The second parents are required to abide by it.	S Yes, and parents are required to abide by it.					
Yes, but signing it is voluntary.	Yes, but signing it is voluntary.					
\bigcirc No \rightarrow Question 8 is not applicable and will be skipped.	\bigcirc No \rightarrow Question 8 is not applicable and will be skipped.					
(2015 Operational Grade 12, 2017 Operational Grades 4 and 8)	Issue: School Climate					

		2018 item			D/A/ R/NC+	Rationale
in your charter–parent cor	ntract? Select one	 Are the following elements addressed in circle in each row. 	n your charter-parent cor	ntract? Select one	NC	
Yes	No		Yes	No	T	
0	Φ	a. Dress code	۵	Φ	†	
0	Φ	b. Home learning environment	0	Φ	1	
0	Φ	c. Homework	0	Ð	1	
Ø	Φ	d. Parent-teacher communication	0	Ø	1	
0	Φ	e. Parent volunteering	0	Ð	1	
Ø	Ð				1	
۵	Ð	g. Student attendance	1		1	
٩	Φ	0		0	1	
0	Φ	i. Other (specify):	0	Ð	1	
	Yes	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	in your charter-parent contract? Select one 8. Are the following elements addressed in circle in each row. Yes No	in your charter-parent contract? Select one 8. Are the following elements addressed in your charter-parent concircle in each row. Yes No 0 0 <td>Yes No 0 0 0</td> <td>Yes No 0 0 0</td>	Yes No 0 0 0	Yes No 0 0 0

Appendix I-3f: 2018 Operational Grade 4 Core Charter School

1. Is your school a public **charter** school?

(A charter school is a public school that, in accordance with an enabling state statute, has been granted a charter exempting it from selected state or local rules and regulations. A charter school may be a newly created school, or it may previously have been a public or private school.)

(A) Yes

- **(B)** No \rightarrow Questions 2–8 are not applicable and will be skipped.
- 2. In which year did your school start providing instruction as a charter school?

	\square

3. Who granted your school's current charter?

- School district
- State board of education (includes state board of regents and District of Columbia State Board of Education)
- © Postsecondary institution
- State charter-granting agency
- © City or state public charter school board
- © Other (specify):_____
- **4.** What is the legal status of your school?
 - (LEA) Officially part of the school district or local education agency (LEA)
 - (D) Independent from the school district or local education agency (LEA)

1

© A separate local education agency (LEA) as stipulated by state law

VH240223

VH254022

VH240224

5. Is this school operated by a company or organization that also operates other charter schools?

- (A) Yes
- B No

VH240227

- 6. Which one of the following best describes your charter school's **primary** focus in terms of program content?
 - [®] We have a comprehensive curriculum with no specialized area of focus.
 - ^(B) We have a special curricular focus, for example, the arts, math/science, foreign language immersion.
 - © Our curriculum is based on a particular educational theory, for example, Montessori, open school, Core Knowledge.
 - Our curriculum is based on a particular moral philosophy or set of values, for example, African-centered education, character-based education, Eastern philosophy.

- 7. Does your school provide a written contract for parents?

 - [®] Yes, but signing it is voluntary.
 - \bigcirc No \rightarrow Question 8 is not applicable and will be skipped.

	Yes	No	
a. Dress code	A	®	VH241947
b. Home learning environment	Ø	®	VH241951
c. Homework	æ	®	VH241946
d. Parent-teacher communication	Ø	®	VH241953
e. Parent volunteering	æ	®	VH241952
f. School discipline policy	A	®	VH241948
g. Student attendance	A	®	VH241945
h. Student promotion policy	A	®	VH241950
i. Other (specify):	۵	®	VH259448

8. Are the following elements addressed in your charter-parent contract? Select **one** circle in each row.

Appendix I-3g: 2018 Operational Grade 8 Core Charter School

1. Is your school a public **charter** school?

(A charter school is a public school that, in accordance with an enabling state statute, has been granted a charter exempting it from selected state or local rules and regulations. A charter school may be a newly created school, or it may previously have been a public or private school.)

(A) Yes

- **(B)** No \rightarrow Questions 2–8 are not applicable and will be skipped.
- 2. In which year did your school start providing instruction as a charter school?

	\square	\square

3. Who granted your school's current charter?

- School district
- State board of education (includes state board of regents and District of Columbia State Board of Education)
- © Postsecondary institution
- State charter-granting agency
- © City or state public charter school board
- © Other (specify):_____
- **4.** What is the legal status of your school?
 - (LEA) Officially part of the school district or local education agency (LEA)
 - (D) Independent from the school district or local education agency (LEA)
 - © A separate local education agency (LEA) as stipulated by state law

VH240223

VH240224

VH254022

VH240225

1

5. Is this school operated by a company or organization that also operates other charter schools?

- (A) Yes
- B No

VH240227

- 6. Which one of the following best describes your charter school's **primary** focus in terms of program content?
 - [®] We have a comprehensive curriculum with no specialized area of focus.
 - ^(B) We have a special curricular focus, for example, the arts, math/science, foreign language immersion.
 - © Our curriculum is based on a particular educational theory, for example, Montessori, open school, Core Knowledge.
 - © Our curriculum is based on a particular moral philosophy or set of values, for example, African-centered education, character-based education, Eastern philosophy.

- 7. Does your school provide a written contract for parents?

 - [®] Yes, but signing it is voluntary.
 - \bigcirc No \rightarrow Question 8 is not applicable and will be skipped.

	Yes	No	
a. Dress code	۵	®	VH241947
b. Home learning environment	Ø	®	VH241951
c. Homework	(A)	®	VH241946
d. Parent-teacher communication	Ø	®	VH241953
e. Parent volunteering	۵	®	VH241952
f. School discipline policy	Ø	®	VH241948
g. Student attendance	Ø	®	VH241945
h. Student promotion policy	Ø	®	VH241950
i. Other (specify):	æ	®	VH259448

8. Are the following elements addressed in your charter-parent contract? Select **one** circle in each row.

Appendix I-3h: 2018 Operational Grade 12 Core Charter School

1. Is your school a public **charter** school?

(A charter school is a public school that, in accordance with an enabling state statute, has been granted a charter exempting it from selected state or local rules and regulations. A charter school may be a newly created school, or it may previously have been a public or private school.)

(A) Yes

- **(B)** No \rightarrow Questions 2–8 are not applicable and will be skipped.
- 2. In which year did your school start providing instruction as a charter school?

	\square

3. Who granted your school's current charter?

- School district
- State board of education (includes state board of regents and District of Columbia State Board of Education)
- © Postsecondary institution
- State charter-granting agency
- © City or state public charter school board
- © Other (specify):_____
- **4.** What is the legal status of your school?
 - (LEA) Officially part of the school district or local education agency (LEA)
 - (D) Independent from the school district or local education agency (LEA)

1

© A separate local education agency (LEA) as stipulated by state law

VH254022

VH240223

VH240224

5. Is this school operated by a company or organization that also operates other charter schools?

- (A) Yes
- B No
 No

VH240227

- 6. Which one of the following best describes your charter school's **primary** focus in terms of program content?
 - [®] We have a comprehensive curriculum with no specialized area of focus.
 - ^(B) We have a special curricular focus, for example, the arts, math/science, foreign language immersion.
 - © Our curriculum is based on a particular educational theory, for example, Montessori, open school, Core Knowledge.
 - Our curriculum is based on a particular moral philosophy or set of values, for example, African-centered education, character-based education, Eastern philosophy.

- 7. Does your school provide a written contract for parents?

 - [®] Yes, but signing it is voluntary.
 - \bigcirc No \rightarrow Question 8 is not applicable and will be skipped.

	Yes	No	
a. Dress code	A	®	VH241947
b. Home learning environment	۸	®	VH241951
c. Homework	A	®	VH241946
d. Parent-teacher communication	۸	®	VH241953
e. Parent volunteering	A	®	VH241952
f. School discipline policy	A	®	VH241948
g. Student attendance	A	®	VH241945
h. Student promotion policy	(8)	®	VH241950
i. Other (specify):		®	VH259448

8. Are the following elements addressed in your charter-parent contract? Select **one** circle in each row.

Appendix I-3i: Pilot Grade 12 Reading

Note that pilot items are labeled as 2019 pilot which indicates that they will be piloted in 2018 for operational use in 2019.

VH240553

	Not at all	Small extent	Moderate extent	Large extent	
a. Use of English/language arts across the curriculum	Ø	®	O	D	VH259997
b. Interpreting and analyzing literature	æ	®	O	Ø	VH240555
c. Interpreting and analyzing informational texts	Ø	®	©	Ø	VH240559
d. Understanding the cognitive process of an individual when they are reading or writing	۲	٦	O	۵	VH260000
e. Use of scoring guides to evaluate student work	Ø	®	O	0	VH260001
f. Instructional strategies for teaching English/language arts	Ø	6	©	Ø	VH260002

1. During the last two years, to what extent have professional development activities offered to teachers in your school focused on the following? Select **one** circle in each row.

Questions 2–5 ask about reading specialists and literacy coaches.

Reading specialists provide additional instructional support to students and have special expertise in assessing and diagnosing students' reading strengths and needs.

Literacy coaches work with teachers to help them implement and use strategies to improve their students' ability to read and write in their classes.

In some schools, a single person may serve in both roles regardless of the title they have. Please answer questions 2–5 based on the roles as defined in this paragraph.

- **2.** Is there a reading specialist available (full- or part-time) to twelfth-grade students at your school?
 - Tes, available full-time to twelfth-grade students
 - [®] Yes, available part-time to twelfth-grade students
 - \bigcirc No \rightarrow Question 3 is not applicable and will be skipped.

3. To what extent are each of the following a responsibility of the reading specialist(s) available to twelfth-grade students at your school? Select **one** circle in each row.

	Not at all	Small extent	Moderate extent	Large extent	
a. Provide one-on-one help to students with various reading strategies (e.g., basic comprehension, making inferences, building vocabulary)	Ø	℗	O	٥	VH240715
b. Provide one-on-one help to students at various achievement levels	۵	ß	©	Ø	VH240716

VH240025

- **4.** Is there a literacy coach available (full- or part-time) to twelfth-grade teachers at your school?
 - Tes, available full-time to twelfth-grade teachers
 - (1) Yes, available part-time to twelfth-grade teachers
 - \bigcirc No \rightarrow Question 5 is not applicable and will be skipped.

VH240718

5. To what extent are each of the following a responsibility of the literacy coach(es) available to twelfth-grade teachers at your school? Select **one** circle in each row.

		Not at all	Small extent	Moderate extent	Large extent	
а.	Provide assistance/support to individual teachers about English/language arts content or the teaching of English/language arts	Ø	®	Ø	0	VH240720
b.	Conduct professional development for groups of teachers about English/ language arts content or the teaching of English/ language arts	Ø	®	Ø	Ø	VH240719

VH240714

538

6. To what extent is your school's English/language arts program structured according to the following resources? Select **one** circle in each row.

			1			
		Not at all	Small extent	Moderate extent	Large extent	
a.	District curriculum standards or curriculum guides	Ø	®	Ø	Ø	VH240607
b.	State curriculum standards or frameworks	A	®	0	0	VH240606
c.	In-school curriculum frameworks and standards for learning	Ø	®	Ø	0	VH240609
d.	Results from district assessments	A	®	O	Ø	VH586890
e.	Results from state assessments	A	®	O	Ø	VH240608
f.	Recommendations from school English/language arts department	Ø	®	Ø	Ø	VH240611
g.	Discretion of individual teachers	A	®	O	Ø	VH240612
h.	Results from school assessments (e.g., quizzes or tests created by teachers)	Ø	®	Ø	Ø	VH240614
i.	Resources found on the Internet	A	®	O	Ø	VH240610

VH240721

7. To what extent does your school's twelfth-grade English/language arts curriculum focus on preparation for the following types of assessments? Select **one** circle in each row.

	Not at all	Small extent	Moderate extent	Large extent	
a. District assessments	æ	®	O	D	VH240724
b. State assessments	$\textcircled{\ }$	B	O	Ø	VH240725
c. School assessments (e.g., quizzes or tests created by teachers)	0	ഀ	Ø	Ø	VH240723

- **8.** To what extent does your school provide up-to-date technology resources for English/language arts teaching and learning?
 - Not at all
 - Small extent
 - © Moderate extent
 - D Large extent

9. In addition to English/language arts teachers, does your school have the following personnel to assist with English/language arts class instruction for twelfth-grade students with disabilities (SD)? Select **one** circle in each row.

	Yes	No	
a. Special Education teachers (and related service providers)	Ø	®	VH240727
b. Reading specialists or literacy coaches	Ø	®	VH240728
c. Speech pathologists	Ø	®	VH240729
d. Paraprofessionals or teacher aides who are trained to work with students with disabilities	۵	®	VH240733
e. Parent volunteers	Ø	®	VH240730

10. In addition to English/language arts teachers, does your school have the following personnel to assist with English/language arts class instruction for twelfth-grade English language learners (ELL)? Select **one** circle in each row.

	Yes	No	
a. Reading specialists or literacy coaches	Ø	®	VH240735
b. Speech pathologists	8	®	VH240736
c. Certified ELL/bilingual education teachers	۵	®	VH240737
d. Paraprofessionals or teacher aides who are trained to work with students who are ELL	Ø	®	VH240741
e. Parent volunteers	æ	B	VH240738

VH240726

11. How much is your school's ability to provide instruction affected by a lack of the following resources? Select **one** circle in each row.

		Not at all	A little	Some	A lot	
s	Teachers with a specialization in English/ anguage arts	(2)	B	Ø	Ø	VH260138
E	Computer software for English/language arts nstruction	0	₿	Ø	Ø	VH260140
c. I	Library books	A	B	O	Ð	VH260142
E	Audio-visual resources for English/language arts nstruction	(9	₿	Ø	0	VH260143

VH240026

12. Does your school offer online English/language arts courses for credit?

- (A) Yes
- B No
 No

	Yes	No	
a. Advanced Placement English Language and Composition	Ø	®	VH240743
b. Advanced Placement English Literature and Composition	Ø	®	VH240745
c. English language and composition (beyond an introductory course)	Ø	6	VH240747
d. English literature and composition (beyond an introductory course)	Ø	6	VH240748
e. International Baccalaureate [®] Language A1	A	®	VH240746

13. Are courses of at least one semester in length taught in your school in each of the following subjects? Select **one** circle in each row.

14. Approximately what percentage of students in this year's graduating class has enrolled in an English/language arts academic course for dual credit taught at the following locations? Select **one** circle in each row.

(Dual credit is defined for this survey as a course or program where high school students can earn both high school and postsecondary credits for the same courses. Postsecondary institutions include public and private 2- or 4-year colleges or universities, community colleges, and technical or vocational schools. The dual credit options must either be legislated by your state or have an articulated or formal written agreement between your school and a postsecondary institution. Do NOT include Advanced Placement and International Baccalaureate[®] courses.)

	0%	1–5%	6–10%	11–25%	26–50%	51–75%	Over 75%	
a. On your high school campus	Ø	ß	O	Ø	Ē	Ð	G	VH240751
b. On a postsecondary campus	A	ß	0	Ø	Ē	Ð	G	VH240752
c. Through distance learning	Ø	B	O	D	Ē	Ð	G	VH240753

Appendix I-3j: Pilot Grade 12 Math

Note that pilot items are labeled as 2019 pilot which indicates that they will be piloted in 2018 for operational use in 2019.

1. Beginning with ninth grade, how many years (or Carnegie-unit equivalents) of course work in mathematics does your school or district require for graduation?

- Less than two years
- [®] Two years
- © Three years
- Four years
 Four years
 A second seco
- © More than four years

- 2. Does your school offer online mathematics courses for credit?
 - (D) Yes
 - B No
 No

3. Are courses of at least one semester in length taught in your school in each of the following subjects? Select **one** circle in each row.

	Yes	No	
a. Pre-calculus or introductory analysis	A	B	VH241006
b. Integrated mathematics 3 (third year of a multi-year course)	®	®	VH241017
c. Integrated mathematics 4 (fourth year of a multi-year course)	®	®	VH241018
d. Trigonometry	A	®	VH240991
e. International Baccalaureate [®] (IB) Mathematics	®	®	VH241008
f. Advanced Placement (AP [®]) Calculus AB	A	®	VH241009
g. Advanced Placement (AP) Calculus BC	A	®	VH241010
h. Calculus (other than Advanced Placement [AP] Calculus)	۵	®	VH241007
i. Advanced Placement (AP) Statistics	A	®	VH241011
j. Probability and/or statistics (other than Advanced Placement [AP] Statistics)	æ	®	VH241012
k. Advanced Placement Computer Science A	A	®	VH241013
1. Computer science (other than Advanced Placement [AP] Computer Science)	۵	®	VH241016

	Yes	No	
a. Algebra I	A	®	VH241022
b. Geometry	A	®	VH241023
c. Algebra II	۵	®	VH241024
d. Statistics/Probability	A	®	VH241025
e. Integrated mathematics 1 (first year of a multi-year course)	Ø	6	VH241032
f. Integrated mathematics 2 (second year of a multi-year course)	Ø	6	VH241033
g. Integrated mathematics 3 (third year of a multi-year course)	Ø	6	VH241034
h. Integrated mathematics 4 (fourth year of a multi-year course)	Ø	(8)	VH241028
i. Other mathematics course (Please specify):	۵	®	VH241031

4. Which of the following mathematics courses are required for high school graduation? Select **one** circle in each row.

VH733475

- **5.** In your school, approximately what percentage of twelfth-grade students enroll in more than one mathematics class in a year (including summer school or two-block classes) **for remediation or to catch up a grade level**? Do not include students who receive additional mathematics instruction as part of special education or because of IEP provisions.

 - 11–20%
 - © 21–30%
 - © 31-40%
 - © 41–50%
 - © More than 50%

VH270533

6. This year, how many teachers are teaching mathematics in your school? Enter the number of teachers.

7. In this school year, what percentage of students have gone to other schools (neighboring high school or college) to receive mathematics instruction?

- B 11–20%
- © 21–30%
- © 31–40%
- © 41-50%
- © More than 50%

- **8.** To what extent does your school provide up-to-date technology resources for mathematics teaching and learning?
 - Not at all
 - Small extent
 - © Moderate extent
 - D Large extent

Questions 9 and 10 ask about mathematics coaches.

Mathematics resource teachers provide additional instructional support to students and have special expertise in assessing and diagnosing students' mathematics strengths and needs to assist with learning and understanding.

Mathematics coaches work with teachers to help them implement and use strategies to improve their students' ability to use mathematics in their classes.

In some schools, a single person may serve in both roles regardless of the title they have. Please answer questions 9 and 10 based on the roles as defined in this paragraph.

- **9.** Is there a mathematics coach available (full- or part-time) to twelfth-grade teachers at your school?
 - Tes, available full-time to twelfth-grade teachers
 - [®] Yes, available part-time to twelfth-grade teachers
 - \odot No \rightarrow Question 10 is not applicable and will be skipped.

VH241043

10. To what extent are each of the following a responsibility of the mathematics coach(es) available to twelfth-grade teachers at your school? Select **one** circle in each row.

	Not at all	Small extent	Moderate extent	Large extent	
a. Provide support or assistance about mathematics content	æ	6	O	Ø	VH241044
b. Provide support or assistance about the teaching of mathematics to individual teachers	۲	®	Ø	۵	VH241046
c. Conduct professional development about mathematics or the teaching of mathematics for groups of teachers	۵	©	©	Ø	VH241045

	Yes	No	
a. Opportunities for students to discuss mathematics work, including homework, with their teachers	۵	₿	VH270635
b. Peer tutoring in mathematics	Ø	ß	VH270636
c. Mathematics competitions	۵	®	VH270637
d. Chess clubs	Ø	®	VH270638
e. Programming classes	Ø	®	VH270640
f. Mathematics clubs	Ø	®	VH270641
g. Teacher-led tutoring sessions in mathematics for groups of students	۵	B	VH270643
h. Teacher-led extra-help sessions in mathematics	۵	B	VH270644
i. Family mathematics night	Ø	®	VH270645

11. In this school year, did your school offer any of the following activities? Select **one** circle in each row.

	Not at all	Small extent	Moderate extent	Large extent	
a. State curriculum standards or frameworks	Ø	®	O	Ø	VH240920
b. District curriculum standards or curriculum guides	۵	®	O	Ø	VH240921
c. Results from district assessments	8	®	©	D	VH240922
d. Results from state assessments	8	®	O	D	VH587964
e. Results from school-level assessments	۵	®	©	D	VH547493
f. Recommendations from school mathematics department or teachers	۵	®	O	Ø	VH547495
g. Discretion of individual teachers	8	®	©	D	VH240926
h. Commercially designed programs	8	®	©	D	VH240927
i. Resources found on the Internet	ß	®	©	D	VH240925

12. To what extent is your school's mathematics program structured according to the following resources? Select **one** circle in each row.

	Not at all	Small extent	Moderate extent	Large extent	
a. District assessments	A	®	O	Ø	VH733487
b. State assessments	A	B	O	D	VH733486
c. School assessments (e.g., quizzes or tests created by teachers)	۵	®	O	Ø	VH733485

13. To what extent does your school's twelfth-grade mathematics curriculum focus on preparation for the following types of assessments? Select **one** circle in each row.

14. Approximately what percentage of students in this year's graduating class has enrolled in a distance learning course for the following subjects? Select **one** circle in each row. (Distance learning courses are defined for this survey as credit-granting courses in which the teacher and student are in different locations. They can be delivered via audio, video, or Internet or other computer technologies. They may originate from your school or another entity.)

	0%	1–5%	6–10%	11-25%	26–50%	51-75%	Over 75%	
a. English/ language arts	A	®	O	D	Ē	Ē	9	VH241062
b. Mathematics	A	®	©	D	Ē	Ē	G	VH241063
c. Social studies	A	B	©	D	Ē	Ē	G	VH241064
d. Science	A	®	©	D	Ē	Ē	G	VH241065
e. Computer science	A	®	©	D	Ē	Ē	G	VH241066
f. Foreign languages	A	®	O	Ø	Ē	Ē	G	VH241067
g. Career and technical/ vocational	Ø	®	©	D	Ē	Ē	G	VH241068
h. Other (Please specify):	Ø	®	©	D	Ē	Ē	G	VH241069

15. Approximately what percentage of students in this year's graduating class has enrolled in a mathematics academic course for dual credit taught at the following locations? Select **one** circle in each row.

(Dual credit is defined for this survey as a course or program where high school students can earn both high school and postsecondary credits for the same courses. Postsecondary institutions include public and private 2- or 4-year colleges or universities, community colleges, and technical or vocational schools. The dual credit options must either be legislated by your state or have an articulated or formal written agreement between your school and a postsecondary institution. Do NOT include Advanced Placement and International Baccalaureate[®] courses.)

	0%	1–5%	6–10%	11–25%	26–50%	51-75%	Over 75%	
a. On your high school campus	Ø	®	O	0	Ē	Ð	9	VH241071
b. On a postsecondary campus	Ø	®	O	Ø	Ē	Ð	G	VH241072
c. Through distance learning	Ø	B	O	Ø	Ē	Ð	6	VH241074
d. Other (Please specify):	Ø	®	©	Ø	Ē	Ē	G	VH241076

VH241077

16. Approximately what percentage of students in this year's graduating class has enrolled in a career and technical/vocational course for dual credit taught at the following locations? Select **one** circle in each row.

(Dual credit is defined for this survey as a course or program where high school students can earn both high school and postsecondary credits for the same courses. Postsecondary institutions include public and private 2- or 4-year colleges or universities, community colleges, and technical or vocational schools. The dual credit options must either be legislated by your state or have an articulated or formal written agreement between your school and a postsecondary institution. Do NOT include Advanced Placement and International Baccalaureate[®] courses.)

	0%	1–5%	6–10%	11-25%	26–50%	51–75%	Over 75%	
a. On your high school campus	Ø	B	O	D	Ē	Ð	G	VH241078
b. On a postsecondary campus	Ø	ෂ	O	Ø	Ē	Ð	6	VH241079
c. Through distance learning	Ø	₿	O	Ø	Ē	Ð	G	VH241080
d. Other (Please specify):	Ø	ම	O	Ø	Ē	Ð	6	VH241082

Appendix I-3k: Summary of Revisions 2018 Grades 4, 8, and 12 Science

Previous item							2018 item							D/A/ R/NC+	Rationale
 To what extent is each of fourth-grade students at y 	the following a r	esponsibility of t ct one circle in ea	he science spe ich row.	cialist(s) av	vais ailable to	11	2. To what extent is each of the staff available to fourth-gra	he following a re de students at yo	sponsibility of th our school? Selec	ie additional t one circle i	science n each row.	VH241296		R	The following revision was
			Moderate	Ĭ.		1		Not at all	Small extent	Moderate	Large exten	t			made: In the
a. Provide science	Not at all	Small extent	extent	Large ex	tent	4	a. Provide science			catent					stem "science
 Provide science course-related support, remediation, or intervention to individual students 	Ø	Ð	0	0	¥111580	2	course-related support, remediation, or intervention to individual students	0	æ	Ø	۵	VH241297			specialist(s)" wa replaced with
 Provide science course-related support, remediation, or intervention to groups of students 	۵	Ð	0	ø	V11158)		b. Provide science course-related support, remediation, or intervention to groups of students	۵	Φ	Φ	۵	VH241298			"additional science staff"
c. Provide science enrichment to individual students	Ø	æ	θ	0	9142580	4	 c. Provide science enrichment to individual students 	۵	Φ	Ø	0	VH24(399			based on cognitive
 d. Provide science enrichment to groups of students 	Ø	٩	0	0	¥H1580	,	 d. Provide science enrichment to groups of students 	Ø	Ð	Φ	Ø	VH241300			interview study results, expert
6. To what extent does y				focus on p	preparation	vessess for the	 To what extent do your for the following types of 	school's fourth of assessments?	-grade science (Select one circ	curricula fe cle in each	ocus on prepara row.	ition	VHZ41315	R	feedback. The following
6. To what extent does yo following types of asse	ssments? Selec	t one circle in	each row.	oderate		for the	6. To what extent do your for the following types of	school's fourth of assessments Not at al	Select one circ	cle in each	row.	ntion arge extent	VIEABIS	R	The following revisions were made: (1) In the
following types of asse	ssments? Selec	all Small e	each row. xtent Me	oderate extent	Large ex	for the	for the following types of a. State assessments	Not at al	Select one circ	cle in each	oderate extent La	urge extent	VH241519	R	The following revisions were made: (1) In the item stem
	ssments? Selec	t one circle in	each row. xtent Me	oderate		for the	for the following types of a. State assessments b. District assessments	of assessments? Not at al	Select one circ	cle in each	oderate extent La	orge extent		R	The following revisions were made: (1) In the item stem "does" was
following types of asse a. State assessments	Solution Not at	all Small e	each row. xtent Me	oderate extent	Large ex	for the ent VC204216	for the following types of a. State assessments	Not at al	Select one circ	cle in each	oderate extent La	urge extent	VH241519	R	The following revisions were made: (1) In the item stem "does" was
a. State assessments b. District assessments c. School assessments	Not at	all Small e	each row. xtent Me	oderate extent ©	Large ex ©	for the ent <u>VC204216</u> VC204216	a. State assessments b. District assessments c. School assessments (c.g., quizzes or tests created by	Not at al	Select one circ	cle in each	oderate extent La ©	orge extent	VH241319 VH241318	R	The following revisions were made: (1) In the item stem "does" was changed to "do based on editorial review and (2) In subitem "c" example conter was added to create consistency
a. State assessments b. District assessments c. School assessments	Not at	all Small e	each row.	Derate xtent D D D	Large ex	for the ent <u>VC204216</u> VC204216	a. State assessments b. District assessments c. School assessments (e.g., quizzes or tests created by teachers)	Not at al	Select one circ	tent M	oderate La	trge extent	VH241319 VH241318	R	The following revisions were made: (1) In the item stem "does" was changed to "do based on editorial review and (2) In subitem "c" example conter was added to create
following types of asse a. State assessments b. District assessments c. School assessments (2015 Grade 4) 7. Does your school have l	ssments? Select	ities for fourth	-grade science	Derate xtent D D D	Large ex	for the ent vicious vicious vicious	a. State assessments b. District assessments c. School assessments (c.g., quizzes or tests created by teachers) Issue: Organization 8. Does your school have la	Not at al	Select one circ	tent M	oderate La	trge extent	91541319 91541318 91643864		The following revisions were made: (1) In the item stem "does" was changed to "do based on editorial review and (2) In subitem "c" example conter was added to create consistency

Previous item						2018 item						D/A/ R/NC+	Rationale
 To what extent do your school's science laboratories that are have the following features? Select one circle in each row. 			e available for	fourth-grade ins	ruction	9. To what extent do your sch fourth-grade instruction ha	ool's science la ve the followin	boratories that a g features? Select	e available for one circle in ea	ach row.	VH241320	R	The following revisions were
	Not at all	Small extent	Moderate	Large extent			Not at all	Small extent	Moderate extent	Large extent	\pm		made: (1) subitem "d" wa
a. Demonstration stations	0	Ð	Ø	0	VDR1388	a. Demonstration stations	۹	Ð	O	0	VH241321		
b. Student lab stations	9	0	0	6	VE013390	b. Student lab stations	Ø	Φ	O	٢	VH241322		changed to
 Storage areas for chemicals and other supplies 	0	œ	0	0	VE013391	c. Storage areas for chemicals and other supplies	۲	Φ	0	Ø	VH241323		include exampl
d. Electricity	۲	Ð	Ø	Ø	YE013394	 d. Electricity (for example, power outlets for using lab 	Ø	æ	Q	Ø	VH241324		content based
c. Running water	۲	Ð	0	Ø	VI013396	equipment)		<u> </u>	•	e e	10 m 1		on stakeholder
 Gas for burners 	0	Φ	0	0	VERIMO7	e. Running water	(4)	D D	©	0	VH241330		feedback, (2)
g. Hoods or air hoses	۲	Ð	0	Ø	AB913268	f. Gas for burners	0	Ð	©	۵	VH241326		
h. Safety equipment	٨	Ð	Ø	۵	VED13400	g. Hoods or air hoses	Ø	00	0	0	VH241327		subitem "h" wa
i. Computers	۹	٩	¢	Ø	VE01340)	h. Safety equipment (e.g.,							changed to
j. Internet connection	٩	۲	0	Ø	VI013402	goggles, fire extinguishers, or eye wash stations)	0	Φ	O	Ø	VH241328		include exampl
2015 Grade 4)						i. Computers and other digital devices	۵	æ	Ø	Ø	VH241329		content based
						j. Internet connection	Ø	Ð	O	۵	VH241325		on cognitive
						Issue: Resources for	Learning	and Instru	ction				interview study results, and (3) subitem "I" wa revised to include "and other digital devices" to create consistency

Previous item						Grade 4 Science School 2018 item	D/A/	Rationale
Flevious item						2010 ((e))	R/NC+	Rationale
9. To what extent are any of t Select one circle in each ro	he following av w. Not at all	Small extent	grade teachers Moderate extent	who teach sciene	venime	N/A	D	To reduce schoo administrator burden and
 a. Science textbooks (including digital forms, such as online textbooks) 	۵	Φ	Ø	0	428644277			redundancy of items across
b. Science magazines and books (including digital forms, such as online magazines and books)	۵	œ	0	٩	VF864038			respondent groups, this iten
c. Supplies or equipment for science demonstrations	Ø	œ	0	ø	VERCHON			was dropped.
d. Supplies or equipment for science labs	Ø	œ	0	Ø	VE013412			
e. Student access to computers in class for science instruction	Ø	æ	Φ	Ð	VIII13413			
f. Student access to computer labs for science instruction	Ø	œ	0	٩	VE013414			
 g. Teacher access to computers for science instruction 	۵	Ø	Φ	Ð	VEDUNGIN			
h. Computerized science labs for classroom use	0	D.	0	Ð	VED19416			
i. Audiovisual materials for science instruction	Ø	Ð	ø	Φ	VEBG4417			
j. Science kits	Ø	Ð	Ø	Ð	VER13419			
 k. Scientific measurement instruments (e.g., telescopes, microscopes, thermometers, or weighing scales) 	۵	Ð	Ø	Ø	VE013420			

Previous item	1							D/A/ R/NC+	Rationale
10. Approximately wh resources for fourth	at percenta 1-grade scie	ge of your so nce instruct	hool's class ion? Select o	rooms has th one circle in	ne following each row.	rechnologic	venusere al	D	To reduce schoo administrator
	0%	1-25%	26-50%	51-75%	76-99%	100%			burden and
a. Desktop computer	\$	œ	0	۵	Ð	Ð	VE013424		redundancy of
b. Laptop computer	0	0	0	٢	O	٢	VED13425		items across
c. Tablet computer	G	QD.	O	٢	Ð	٢	VH158022		
d. Digital projector (device that connects to a computer to display presentations or demonstrate lessons, such as an LCD)	8	θ	Ø	Θ	Φ	¢	VE)13425		respondent groups, this ite was dropped.
e. CD-ROM	Ø	œ	O	۵	Ð	۲	VE013429		
f. Online software	0	QD.	Ø	۵	Ø	©	VE013430		
g. Digital music device (pocket-sized music player used to listen to or create audio files, such as an MP3 player)	3	θ	Ð	θ	Φ	Ð	VED13432		
h. Cable/satellite/ closed-circuit television	⊕	90	O	۵	Φ	Ð	VE013433		
i. DVD player and DVDs	69	Ð	0	Ð	Ð	œ	VE013434		
j. Digital camera	3	æ	O	Ø	Ð	©	VE013435		
k. Graphing	0	Ð	0	•	Ð	®	VE013436		
calculator 1. Handheld device	•		~	w.	•				
 Panduleto device (pocket-sized computing device, such as personal digital assistant or smartphone) 	0	₽	Ø	Φ	Φ	œ	YE013437		
	0%	1-25%	26-50%	51-75%	76-99%	100%			
m. Data collection sensors/probes (tool that connects to a handheld device or graphing calculator and detects motion, pH, temperature, light)	۹	Φ	Q	Φ	Φ	٢	YE013438		
n. Online course management system (web-based software used to organize information, assignments, grades, and discussions)	۵	œ	©	Ð	Φ	¢	VEID 3454		
c) Digital whiteboard (computerized display panels that can respond to fingertip command and creates a shared interactive space, akin to traditional chalkboards)	۵	8	Q	Φ	Φ	Û	¥E013440		

					Grade 4 Science Sch	nool					
Previous item					2018 item					D/A/ R/NC+	Rationale
12. To what extent does your school experiences? Select one circle in		de students with th	e following learnin	VH142331	 To what extent does your school p learning experiences? Select one c 			e following	VH241366	NC	
	Not at all	1–2 times per	3 or more times		f	Not at all	1–2 times per year	3 or more times per year			
		year	per year	1	a. Science fairs	Ø	Ø	Ø	VH241367		
a. Science fairs b. Science competitions	Ø	00 00	0	VH142332 VH142334	b. Science competitions	Ø	Ð	Ø	VH241368		
 c. Science-related field trips (including museums, zoos, aquariums, science centers, and other similar sites) 	@	0	o o	VH142338	c. Science-related field trips (e.g., museums, zoos, aquariums, science centers, or other similar sites)	۵	œ	a	VH241369		
(2015 Grade 4)					Issue: Resources for Lea	rning and I	Instruction				
 In addition to their regular classros (full- or part-time) to fourth-grade Yes. available full-time to fourt Yes. available part-time to four No Question X is not applicab (2017 Grade 4) 	students at your so h-grade students th-grade students	chool?	st available		 In addition to their regular classroo part-time science staff (e.g., a scien supervisor, or science department l school? Yes, available full-time to fourt Yes, available part-time to four No → Question X is not applica Issue: Resources for Lea 	nce specialist, scio head) available to th-grade students th-grade students able and will be s	ence lead teacher, s o fourth-grade stude s s <i>kipped</i> .	cience		R	The following revision was made: In the stem "a science specialist available (full- or part-time)" has been changed to "any additional full- or part-time science staff (e.g., a science specialist, science lead teacher, science supervisor, or science department head) available" based on cognitive interview study results, expert committee feedback, and stakeholder feedback.

	Grade 4 Science School		
Previous item	2018 item	D/A/ R/NC+	Rationale
 5. To what extent does your school provide up-to-date technology resources for science teaching and learning? ② Not at all ③ Small extent ③ Moderate extent ③ Large extent (2017 Grade 4) 	 7. To what extent does your school provide up-to-date technology resources for science teaching and learning? (a) Not at all (b) Small extent (c) Moderate extent (c) Large extent Issue: Resources for Learning and Instruction 	NC	
 versu Is sthere a science coach available (full- or part-time) to fourth-grade teachers at your school? Yes, available full-time to fourth-grade teachers Yes, available part-time to fourth-grade teachers No Question X is not applicable and will be skipped. (2017 Grade 4) 	 Are there any additional full- or part-time science staff (e.g., a science coach, science supervisor, or science department head) available to fourth-grade teachers at your school? Are, available full-time to fourth-grade teachers Yes, available part-time to fourth-grade teachers No → Question X is not applicable and will be skipped. Issue: Resources for Learning and Instruction	R	The following revision was made: In the stem "a science coach available (full- or part- time)" has been changed to "any additional full- or part-time science staff (e.g., a science coach, science lead teacher, science supervisor, or science department head) available" based on cognitive interview study results, expert committee feedback, and stakeholder feedback.

⁺ This column indicates whether the item was dropped (D), added (A), revised (R), or there was no change (NC).

Previous item						2018 item						D/A/ R/NC+	Rationale
 To what extent is each of t available to fourth-grade to 	he following a achers at your	responsibility of t school? Select on	he science coa e circle in each	ch(es) row.	Vitiatioi	 To what extent is each of th staff available to fourth-grad 	e following a r le teachers at y	responsibility of the your school? Select	he additional set one circle in	cience each row.	VH241301	R	The following revision was
1	Not at all	Small extent	Moderate	Large extent			Not at all	Small extent	Moderate	Large extent			made: In the
 Provide support/assistance about science content or the teaching of science to individual teachers 	۵	⊕	0	Ø	VH241302	 Provide support/assistance with science content or the teaching of science to individual teachers 	Ø	æ	©	Θ	VH241302		stem "the science coach" has been
 b. Provide technical support/ assistance with lab equipment to individual teachers 	Ø	œ	Θ	Ð	VH640260	 b. Provide technical support/ assistance with lab equipment to individual teachers 	Ø	Φ	Ø	Φ	VH640260		changed to "th additional
c. Conduct professional development about science or the teaching of science for groups of teachers	۲	Ð	0	0	VH241303	 Conduct professional development about science or the teaching of science for groups of teachers 	Ø	Ð	ø	Φ	VH241303		science staff" based on
													committee feedback, and
 To what extent is your sch following resources? Select 	ool's science pr one circle in e	ogram structured ach row.		ne	V2041305	5. To what extent is your scho following resources? Select	ol's science pr one circle in e	ogram structured ach row.	according to tl	ne	V1041305	R	feedback, and stakeholder feedback. The following revisions were
	ool's science pr one circle in c Not at all	ogram structured sch row. Small extent	according to the Moderate extent	ne Large extent	VH241105	5. To what extent is your scho following resources? Select	ol's science pr one circle in e Not at all	ogram structured ach row. Small extent	according to the Moderate	Large extent	VHD41305	R	feedback, and stakeholder feedback. The following revisions were made: (1)
 To what extent is your sch following resources? Select District curriculum standards or curriculum guides 	one circle in e	ach row.	Moderate		V2040306 V38241307	following resources? Select a. District curriculum standards or curriculum	one circle in e	ach row.	Moderate		VHEA1303	R	feedback, and stakeholder feedback. The following revisions were made: (1)
6 District curriculum standards or curriculum guides b. State curriculum standards or frameworks	one circle in c	sch row. Small extent	Moderate extent	Large extent	П	following resources? Select	one circle in e	ach row. Small extent	Moderate extent	Large extent		R	feedback, and stakeholder feedback. The following revisions were made: (1) subitem "f" wa dropped, (2) new subitem "
following resources? Select District curriculum standards or curriculum guides State curriculum standards	one circle in c Not at all ©	Small extent	Moderate extent ©	Large extent	YH241307	a. District curriculum standards or curriculum guides b. State curriculum standards or frameworks c. Standards or frameworks common to several states	one circle in ea Not at all ©	Small extent	Moderate extent ©	Large extent	VH241307	R	feedback, and stakeholder feedback. The following revisions were made: (1) subitem "f" wa dropped, (2) new subitem "f
following resources? Select a. District curriculum guides b. State curriculum standards or frameworks c. In-school curriculum frameworks and standards for learning d. Results from district assessments	one circle in c Not at all ©	Small extent	Moderate extent ©	Large extent	YH241307 VH241304	following resources? Select a. District curriculum standards or curriculum guides b. State curriculum standards or frameworks c. Standards or frameworks common to several states d. In-school curriculum frameworks and standards	Not at all	Small extent	Moderate extent ©	Large extent	VH241307 VH241306	R	feedback, and stakeholder feedback. The following revisions were made: (1) subitem "f" wa dropped, (2) new subitem "d has been added
 following resources? Select standards or curriculum guides State curriculum standards or frameworks In-school curriculum frameworks and standards for learning Results from district assessments Results from state assessments 	one circle in c Not at all Ø Ø	Small extent	Moderate extent © ©	Large extent	VH241307 VH241306 VH241306	a. District curriculum standards or curriculum guides b. State curriculum standards or frameworks c. Standards or frameworks common to several states d. In-school curriculum frameworks and standards for learning e. Results from school	none circle in ea	ach row. Small extent D D D D D D	Moderate extent © © ©	Large extent	V1H241.007 V1H241.005 V1H241.006 V1H241.009	R	feedback, and stakeholder feedback. The following revisions were made: (1) subitem "f" wa dropped, (2) new subitem " has been adder based on stakeholder feedback, and
a. District curriculum standards or curriculum guides b. State curriculum standards or frameworks c. In-school curriculum frameworks and standards for learning d. Results from district assessments e. Results from state assessments f. Recommendations from school science department	one circle in c Not at all Ø Ø Ø	Small extent	Moderate extent © © ©	Large extent	VH241307 VH241304 VH241304 VH241309 VH241309	following resources? Select a. District curriculum standards or curriculum guides b. State curriculum standards or frameworks c. Standards or frameworks common to several states d. In-school curriculum frameworks and standards for learning e. Results from school assessments (e.g., quizzes or tests created by teachers)	one circle in ea Not at all © © ©	ach row. Small extent Ф Ф Ф Ф	Moderate extent © © ©	Large extent	V9H241307 V9H241306 V9H241309 V9H241309 V9H241314	R	feedback, and stakeholder feedback. The following revisions were made: (1) subitem "f" wa dropped, (2) new subitem "d has been added based on stakeholder feedback, and (3) new subiter
following resources? Select a. District curriculum guides b. State curriculum standards or frameworks or frameworks for learning d. Results from district assessments c. Results from state assessments f. Recommendations from school science department g. Discretion of individual teachers	one circle in c Not at all © © © ©	small extent	Moderate extent © © © ©	Large extent	VH241307 VH241304 VH241304 VH241309 VH241309 VH240850 VH640850	following resources? Select a. District curriculum standards or curriculum guides b. State curriculum standards or frameworks c. Standards or frameworks common to several states d. In-school curriculum frameworks and standards for learning e. Results from school assessments (e.g., quizzes or tests created by teachers) f. Results from district assessments	one circle in each of the circle in each of	ach row. Small extent	Moderate extent © © © ©	Large extent	V18241.007 V18241.007 V18705.771 V18241.009 V18241.009 V18241.009	R	feedback, and stakeholder feedback. The following revisions were made: (1) subitem "f" wa dropped, (2) new subitem "o has been addee based on stakeholder feedback, and
a. District curriculum standards or curriculum guides b. State curriculum standards or frameworks c. In-school curriculum frameworks and standards for learning d. Results from district assessments e. Results from state assessments f. Recommendations from school science department g. Discretion of individual teachers h. Commercially designed programs	one circle in c. Not at all © © © ©	small extent D D D D D D D D D D D D D D D D D D D	Moderate extent © © © © ©	Large extent	VH241307 VH241304 VH241304 VH241309 VH640850 VH640851 VH640851	following resources? Select a. District curriculum standards or curriculum guides b. State curriculum standards or frameworks c. Standards or frameworks common to several states d. In-school curriculum frameworks and standards for learning e. Results from school assessments (e.g., quizzes or tests created by teachers) f. Results from district assessments g. Results from state assessments	one circle in ea Not at all © © ©	ach row. Small extent Ф Ф Ф Ф	Moderate extent © © ©	Large extent	V9H241307 V9H241306 V9H241309 V9H241309 V9H241314	R	feedback, and stakeholder feedback. The following revisions were made: (1) subitem "f" wa dropped, (2) new subitem "d has been added based on stakeholder feedback, and (3) new subiter "e", and "h"
following resources? Select a. District curriculum guides b. State curriculum standards or frameworks c. In-school curriculum frameworks and standards for learning d. Results from district assessments e. Results from state assessments f. Recommendations from school science department g. Discretion of individual teachers b. Commercially designed	one circle in c. Not at all	small extent D D D D D D D D D D	Moderate extent © © © © © ©	Large extent	V94244307 V94244306 V94244306 V94244309 V94640630 V94640631 V94640631 V94244652	following resources? Select a. District curriculum standards or curriculum guides b. State curriculum standards or frameworks c. Standards or frameworks common to several states d. In-school curriculum frameworks and standards for learning e. Results from school assessments (e.g., quizzes or tests created by teachers) f. Results from district assessments g. Results from state assessments g. Results from state assessments h. Results from national assessments	one circle in each of the circle in each of	ach row. Small extent	Moderate extent © © © ©	Large extent	V18241.007 V18241.007 V18705.771 V18241.009 V18241.009 V18241.009	R	feedback, and stakeholder feedback. The following revisions were made: (1) subitem "f" wa dropped, (2) new subitem "d has been adder based on stakeholder feedback, and (3) new subiter "e", and "h" were added to
following resources? Select a. District curriculum guides b. State curriculum standards or frameworks (c. In-school curriculum frameworks and standards for learning d. Results from district assessments f. Recoults from state assessments f. Recommendations from school science department g. Discretion of individual teachers h. Commercially designed programs f. Resources found on the Internet	one circle in c. Not at all © © © © © © © © © ©	small extent	Moderate extent © © © © © © © ©	Large extent	V94244307 V94244306 V94244306 V94244309 V94640630 V94640631 V94640631 V94244652	following resources? Select a. District curriculum standards or curriculum guides b. State curriculum standards or frameworks c. Standards or frameworks common to several states d. In-school curriculum frameworks and standards for learning e. Results from school assessments (e.g., quizzes or tests created by teachers) f. Results from district assessments g. Results from state assessments h. Results from national assessments i. Discretion of individual teachers	one circle in ea Not at all	Ach row. Small extent	Moderate extent © © © © ©	Large extent	V31241.007 V712241.006 V712241.006 V712241.009 V712241.009 V712241.009 V712241.009 V712241.009 V712241.009 V712241.009 V712241.009	R	feedback, and stakeholder feedback. The following revisions were made: (1) subitem "f" wa dropped, (2) new subitem "d has been adder based on stakeholder feedback, and (3) new subiter "e", and "h" were added to create consistency across subject
following resources? Select a. District curriculum standards or curriculum guides b. State curriculum standards or frameworks (or learning) d. Results from district assessments f. Recoults from district assessments f. Recommendations from school science department g. Discretion of individual teachers h. Commercially designed programs i. Resources found on the	one circle in c. Not at all	small extent	Moderate extent © © © © © © © ©	Large extent	V94244307 V94244306 V94244306 V94244309 V94640630 V94640631 V94640631 V94244652	a. District curriculum standards or curriculum guides b. State curriculum standards or frameworks c. Standards or frameworks common to several states d. In-school curriculum frameworks and standards for learning e. Results from school assessments (e.g., quizzes or tests created by teachers) f. Results from district assessments g. Results from state assessments g. Results from state assessments h. Results from national assessments i. Discretion of individual	one circle in each of the circle in each of	ach row. Small extent	Moderate extent © © © © ©	Large extent	V1E241307 V1E241306 V1E705771 V1E241306 V1E241306 V1E241316 V1E400531 V1E400531 V1E400531	R	feedback, and stakeholder feedback. The following revisions were made: (1) subitem "f" wa dropped, (2) new subitem "d has been added based on stakeholder feedback, and (3) new subiter "e", and "h" were added to create consistency

revious item				2018 item				D/A/	Rationale
								R/NC+	
 In this school year, is there a science club offer school? Select one circle in each row. 	red to fourth-grade st	udents in your	CHINCHY	 In this school year, are any of the following ty fourth-grade students in your school? Select of 	pes of science clubs one circle in each row	offered to	VH241362	R	The following revisions were
	Yes	No	- 1 (m -)		Yes	No			made: (1) In the
 Parent volunteered (initiated and run by individual parents) 	0	Φ	VH640872	 a. Parent volunteered (initiated and run by individual parents) 	Ø	Φ	VH640872		item stem "is
 Teacher volunteered (initiated and run by individual teachers) 	۵	٢	VH241363-	b. Teacher volunteered (initiated and run by individual teachers)	Ø	œ	VH241363		there a science
School sponsored (initiated by school and run by school designated personnel)	8	Ø	VH241365	c. School sponsored (initiated by school and run by school designated personnel)	۵	æ	VH241365		club" has been changed to "are
I. Partnered with external agencies (such as universities, science museums, or industries)	۲	Φ	VH241364	 Partnered with external agencies (e.g., universities, science museums, or companies) 	۲	Φ	VH241364		any of the
				Issue: Resources for Learning an					of science clubs based on editorial review and (2) in subitem "d" "industries" ha been changed t "companies" based on

Previous item						2018 item						D/A/ R/NC+	Rationale
 To what extent is each of eighth-grade students at y 				cialist(s) availabl	vH158026 le to	To what extent is each of the staff available to eighth-graws					VH241370	R	The following revision was
	Not at all	Small extent	Moderate	Large extent		1	Not at all	Small extent	Moderate extent	Large extent	11.1		made: In the
 a. Provide science course-related support, remediation, or intervention to individual students 	sot at an	©	extent ©	©	VHIS8027	 Provide science course-related support, remediation, or intervention to individual students 	۲	Φ	Ø	Ø	VH241371		stem "science specialist(s)" wa replaced with "additional
b. Provide science course-related support, remediation, or intervention to groups of students	۵	œ	Ø	Ø	унгызаа	b. Provide science course-related support, remediation, or intervention to groups of students	۵	Ð	Ø	Φ	VH241372		science staff" based on
c. Provide science enrichment to individual students	۵	٩	Ø	ø	VH158029	 Provide science enrichment to individual students 	0	Ð	©	0	VH241373		cognitive interview study
d. Provide science enrichment to groups of students	٩	Ð	0	ø	VH158028	 d. Provide science enrichment to groups of students 	0	θ	Ø	θ	VH241374		results, expert committee
													faadhaali
 To what extent does your following types of assessn 				preparation for	ycioicos the	 To what extent do your sch for the following types of a 	ool's eighth-gr ssessments? Se	rade science curri elect one circle in	cula focus on pr each row.	reparation	VH241579	R	feedback. The following revisions were
			w. Moderate	preparation for	the	for the following types of a	nool's eighth-gr ssessments? Se Not at all	rade science curric elect one circle in Small extent	cula focus on pr each row. Moderate extent	reparation Large extent		R	The following revisions were made: (1) In the
	Not at all	e circle in each ro Small extent	w. Moderate extent	Large extent	the	for the following types of a a. State assessments	Not at all	Small extent	each row. Moderate extent ©	Large extent	VH241383	R	The following revisions were made: (1) In the item stem
following types of assessn	nents? Select on	e circle in each ro	w. Moderate	-	the	for the following types of a a. State assessments b. District assessments	Not at all	elect one circle in Small extent	each row. Moderate extent	Large extent		R	The following revisions were made: (1) In the item stem "does" was
following types of assessm a. State assessments b. District assessments c. School assessments	Not at all	e circle in each ro Small extent D	w. Moderate extent ©	Large extent	the vczółsos	for the following types of a a. State assessments	Not at all	Small extent	each row. Moderate extent ©	Large extent	VH241383	R	The following revisions were made: (1) In the item stem "does" was
following types of assessm a. State assessments b. District assessments	Not at all	e circle in each ro Small extent ©	w. Moderate extent © ©	Large extent	vczo4508 vczo4508	a. State assessments b. District assessments c. School assessments (e.g., quizzes or tests created by	Not at all	Small extent	each row. Moderate extent ©	Large extent	VH241383 VH241382	R	The following revisions were made: (1) In the item stem "does" was changed to "do"

						Grade 8 Science School		
Previous item						2018 item	D/A/ R/NC+	Rationale
9. To what extent are any of t Select one circle in each ro	he following av w. Not at all	small extent	Moderate	who teach sciend	v2004000	N/A	D	To reduce schoo administrator burden and
	Not at an	Shini Carent	extent	Large extent	_			redundancy of
 a. Science textbooks (including digital forms, such as online textbooks) 	Ø	Ð	Φ	Φ	WHERE ANY THE			items across
b. Science magazines and books (including digital forms, such as online magazines and books)	Φ	Ð	Ð	θ	V#862076			respondent groups, this iter
c. Supplies or equipment for science demonstrations	٩	Ð	0	θ	VE03 (005			was dropped.
d. Supplies or equipment for science labs	Θ	θ	θ	θ	VER3 4005			
e. Student access to computers in class for science instruction	-09	Φ	0	θ	V000 4000			
 Student access to computer labs for science instruction 	۲	Ð	0	θ	V\$353.60129			
g. Teacher access to computers for science instruction	Ø	90	Ø	Θ	VED0 0711			
h. Computerized science labs for classroom use	Ø	Ð	0	θ	4020 8072			
 Audiovisual materials for science instruction 	ø	Ð	0	Ð	VTID AD14			
j. Science kits	æ	d)	0	ø	YE004015			
 k. Scientific measurement instruments (e.g., telescopes, microscopes, thermometers, or weighing scales) 	Φ	θ	0	θ	VEDI ADDI			

Previous iten	ı							D/A/ R/NC+	Rationale
10. Approximately what resources for eightle	at percenta 1-grade scie	ge of your sc ence instruct	hool's classr ion? Select o	ooms has th me circle in	e following t each row.	technologic	veni4ois cal	D	To reduce schoo administrator
I	0%	1-25%	26-50%	51-75%	76-99%	100%			burden and
a. Desktop computer	0	Ð	Ø	٢	Ð	Ð	VE014030		redundancy of
b. Laptop computer	0	Φ	Q	0	Ð	Ð	VE014011		items across
c. Tablet computer	0	Ð	Ø	0	Ð	©	VH158017		
d. Digital projector (device that connects to a computer to display presentations or demonstrate lessons, such as an LCD)	۵	θ	Q	Ø	θ	Ð	¥E0)4024		respondent groups, this ite was dropped.
e. CD-ROM	۲	Ð	O	0	Ð	Ð	¥E014025		
. Online software	0	Ð	0	0	Ð	Ð	VE014026		
g. Digital music device (pocket-sized music player used to listen to or create audio files, such as an MP3 player)	۲	Φ	Ø	۵	Φ	Ð	VE014027		
n. Cable/satellite/ closed-circuit television	0	Ð	©	Ð	Ð	Ø	YE014025		
i. DVD player and DVDs	0	Ð	0	0	Ð	Ð	VED14030		
DyDs Digital camera	0	Ð	Ø	0	Ð	Ð	VE014033		
k. Graphing	۲	Ð	o	O	Ð	Ð	VE014041		
calculator . Handheld device (pocket-sized computing device, such as personal digital assistant or smartphone)	۵	Ð	Q	Φ	Φ	Ø	YE014042		
	0%	1-25%	26-50%	51-75%	76-99%	100%			
n. Data collection	970	1-2070	20-5070	51-7570	10-7710	10070			
sensors/probes (tool that connects to a handheld device or graphing calculator and detects motion, pH, temperature, light)	۲	Ð	Ø	Θ	Φ	Ð	VE014043		
 Online course management system (web-based software used to organize information, assignments, grades, and discussions) 	۵	Φ	Ø	۵	θ	Ð	VE014045		
 Digital whiteboard (computerized display panels that can respond to fingertip command and creates a shared interactive space, akin to traditional chalkboards) 	۵	θ	Ø	۵	θ	θ	VE014047		

⁺ This column indicates whether the item was dropped (D), added (A), revised (R), or there was no change (NC).

					Grade 8 Science Sch	nool					-
Previous item					2018 item					D/A/ R/NC+	Rationale
 To what extent does your school experiences? Select one circle in a 		de students with th	e following learning	VH142362	11. To what extent does your school p learning experiences? Select one of			e following	VII241451	NC	
	Not at all	1-2 times per	3 or more times		1	Not at all	1-2 times per year	3 or more times per year	1.		
	1000	year	per year		a. Science fairs	Ø	Ø	O	VH241452		
a. Science fairs b. Science competitions	0	0	0	VH142363 VH142365	b. Science competitions	Ø	æ	O	VH241453		
 b. Science competitions c. Science-related field trips (including museums, zoos, aquariums, science centers, and other similar sites) 	0	0	0 O	VH142365	c. Science-related field trips (e.g., museums, zoos, aquariums, science centers, or other similar sites)	۵	œ.	0	VH241454		
(2015 Grade 8)		4	I		Issue: Resources for Lea	rning and I	nstruction				
 In addition to their regular classro (full- or part-time) to eighth-grade Yes, available full-time to eight Yes, available part-time to eight No Question X is not applicab (2017 Grade 8) 	students at your a th-grade students nth-grade students	school?	list available		 In addition to their regular classroom te part-time science staff (e.g., a science sp supervisor, or science department head) school? Yes, available full-time to eighth-gr Yes, available part-time to eighth-gr No → Question X is not applicable of Issue: Resources for Lea 	secialist, science lea available to eighth ade students ade students and will be skipped	id teacher, science i-grade students at you l.	Ш		R	The following revision was made: In the stem "a science specialist available (full- or part-time)" has been changed to "any additional full- or part-time science staff (e.g., a science specialist, science lead teacher, science supervisor, or science department head) available" based on cognitive interview study results, expert committee feedback, and stakeholder feedback.

	Grade 8 Science School		
Previous item	2018 item	D/A/ R/NC+	Rationale
 5. To what extent does your school provide up-to-date technology resources for science teaching and learning? © Not at all © Small extent © Moderate extent © Large extent (2017 Grade 8)	 7. To what extent does your school provide up-to-date technology resources for science teaching and learning? ② Not at all ③ Small extent ③ Moderate extent ④ Large extent Issue: Resources for Learning and Instruction 		The following
 Is there a science coach available (full- or part-time) to eighth-grade teachers at your school? Yes, available full-time to eighth-grade teachers No Question X is not applicable and will be skipped. (2017 Grade 8)	 Are there any additional full- or part-time science staff (e.g., a science coach, science lead teacher, science supervisor, or science department head) available to eighth-grade teachers Yes, available full-time to eighth-grade teachers Yes, available part-time to eighth-grade teachers No → Question X is not applicable and will be skipped. Issue: Resources for Learning and Instruction		revision was made: In the stem "a science coach available (full- or part- time)" has been changed to "any additional full- or part-time science staff (e.g., a science lead teacher, science lead teacher, science supervisor, or science department head) available" based on cognitive interview study results, expert committee feedback, and stakeholder feedback.

revious item						2018 item						D/A/ R/NC+	Rationale
3. To what extent is each of th available to eighth-grade te:	ne following a achers at your	responsibility of th school? Select one	e science coac circle in each	:h(es) row.	VID41375	 To what extent is each of the staff available to eighth-graphic eighth-graphic eighth-graphic eighth staff available to eighth-graphic eighth staff available to eighth staff available to	ne following a de teachers at y	responsibility of t your school? Selee	he additional s ct one circle in	cience each row.	VH241575	R	The following revision was
	Not at all	Small extent	Moderate extent	Large extent			Not at all	Small extent	Moderate extent	Large extent			made: In the
 Provide support/assistance about science content or the teaching of science to individual teachers 	Φ	Ð	0	0	vH240376	 a. Provide support/assistance with science content or the teaching of science to individual teachers 	Φ	Φ	©	Ø	VH241376		stem "the science coach" has been
 Provide technical support/ assistance with lab equipment to individual teachers 	Ø	Ð	0	Ð	VH540268	b. Provide technical support/ assistance with lab equipment to individual	Ð	Φ	Ø	Ø	VH640268		changed to "th additional
c. Conduct professional development about science or the teaching of science for groups of teachers	0	۵	0	θ	VII:141377	teachers c. Conduct professional development about science or the teaching of science for groups of teachers	۵	Ð	©	۵	VH241377		science staff" based on
7. In this school year, is there	a science club	offered to eighth-	grade students	in your	VH241446	10. In this school year, are any	of the followin	e types of science	clubs offered	10	VH241446	R	feedback, and stakeholder feedback. The following
school? Select one circle in			grade artituenta		_	eighth-grade students in you	ir school? Sele	ct one circle in ea	ch row,	10		n	revisions were
. Parent volunteered (initiated	and run by	Yes		No	V14643916	a. Parent volunteered (initiated	and run by	Yes		No	1 2 2 1		made: (1) In th
individual parents) b. Teacher volunteered (initiate	d and run by	Ø		®	VH241447	 individual parents) b. Teacher volunteered (initiate 		۵		¢	VH643916		item stem "is there a science
individual teachers) . School sponsored (initiated b		۵		٩	VH241447	individual teachers)		۵		Ð	VH241447		club" has been
run by school designated pers I. Partnered with external agen	sonnel)	۵	-	0	VH241.449	c. School sponsored (initiated b run by school designated pers	onnel)	۵		Ð	VH241449		changed to "a
universities, science museun industries)		۷		Ð	V78241448	d. Partnered with external agen- universities, science museum companies)		۵		Ð	VH241448		any of the following type
2017 Grade 8)						Issue : Resources for	Learning	and Instru	ction				of science club

Previous item						2018 item						D/A/ R/NC+	Rationale
 To what extent do your sch eighth-grade instruction ha 	ool's science la ve the followin	boratories that an g features? Select	e available for one circle in e	ach row.	VH341384	 To what extent do your sch eighth-grade instruction ha 	ool's science la ve the followin	boratories that ar g features? Select	e available for one circle in ea	ich row.	V1[241384	R	The following revisions were
	Not at all	Small extent	Moderate extent	Large extent			Not at all	Small extent	Moderate extent	Large extent			made: (1)
a. Demonstration stations	0	٩	0	Φ	VH241385	a. Demonstration stations	0	Ø	Q	0	VH241385		subitem "e" wa
b. Internet connection	θ	۲	0	0	VH241369	b. Internet connection	0	0	Ø	Ø	VH241389		changed to
c. Student lab stations	8	Ð	Φ	Φ	V11241,366	c. Student lab stations	0	Ð	©	0	VH241386		-
 Storage areas for chemicals and other supplies 	Ø	Ø	Ø	Ø	VH28E387	d. Storage areas for chemicals and other supplies	Ø	Ð	0	Ø	VH2AL387		include example content based
e. Electricity	ø	®	0	٩	VH241355	e. Electricity (for example,							
f. Running water	0	۲	0	Ø	VH241394	power outlets for using lab	0	æ	0	Ø	VH241388		on stakeholder
g. Gas for burners	8	Ð	0	0	V11241390	equipment)		1	1	1 · · · · · ·	1.000		feedback, (2)
h. Hoods or air hoses	۲	0	Θ	٥	VH241391	f. Running water	0	Ø	O	0	VH241394		subitem "i" was
i. Safety equipment	۲	٩	0	٩	VH241392	g. Gas for burners	Ø	Ø	O	0	VH241390		
j. Computers	Ø	G	0	Ø	VH24L383	h. Hoods or air hoses	0	Φ	Ø	Ø	VH241391		changed to
2017 Grade 8)						 Safety equipment (e.g., goggles, fire extinguishers, or eye wash stations) 	Ø	Φ	Ø	Ø	VH241.392		include example
						j. Computers and other digital devices	۵	Φ	0	۵	VH2AL983		content based on cognitive
						Issue : Resources for	Learning	and Instru	ction				interview study results, and (3) subitem "j" was revised to include "and other digital devices" to create

Previous item						2018 item						D/A/ R/NC+	Rationale
 To what extent is your sche following resources? Select 			according to tl	hé	AH341300	To what extent is your scho following resources? Select	ol's science pro one circle in ea	ogram structured ich row.	according to th	ne	VH241305	R	The following revisions were
	Not at all	Small extent	Moderate extent	Large extent			Not at all	Small extent	Moderate extent	Large extent			made: (1)
 a. District curriculum standards or curriculum guides 	۵	©.	0	Ø	VH341307	 a. District curriculum standards or curriculum guides 	۵	Φ	©	Ð	VH241307		subitem "f" was dropped, (2)
 b. State curriculum standards or frameworks 	۲	0	0	0	VH241306	b. State curriculum standards or frameworks	۵	Ð	©	۵	VH241306		new subitem "c
c. In-school curriculum			-	1	1000	c. Standards or frameworks common to several states	Ð	Φ	Q	٩	VH705771		has been added
frameworks and standards for learning	۲	٢	0	۵	VH241309	d. In-school curriculum frameworks and standards	Ð	Φ	O	Ø	YH241300		based on
 Results from district assessments 	Ø	9	Θ	Θ	VH640850	for learning e. Results from school					10.1		stakeholder
e. Results from state assessments	@	ø	0	0	VHENNEL	assessments (e.g., quizzes or tests created by teachers)	٩	Φ	Ð	٢	VH24131A		feedback, and
f. Recommendations from school science department	۲	®	O	۵	V10341311	f. Results from district assessments	۲	Φ	Ø	Ø	VE16408SD		(3) new subitem
g. Discretion of individual teachers	Ø	Ð	Ø	Ø	VH241312	g. Results from state assessments	0	æ	0	Ø	VH640851		"e", and "h"
h. Commercially designed	Ø	G	Ø	Ð	VH241313	h. Results from national assessments	0	Ð	Ø	٢	VH705772		were added to
i. Resources found on the Internet	Ø	۵	Ð	Ð	VH640857	i. Recommendations from school science department	Ð	Ð	Ø	Ø	VH241311		create consistency
2017 Grade 8)						j. Discretion of individual teachers	Ø	æ	Ø	Ø	VH241312		across subject
2017 Grade of						k. Commercially designed programs	Θ	æ	Ø	Ø	VH241318		questionnaires
						1. Resources found on the Internet	۲	æ	©	0	VH640857		(2018 social

Previous item				2018 item				D/A/ R/NC+	Rationale
 Are courses of at least one semester in length subjects? Select one circle in each row. 	taught in your school	l in each of the follo	QREFITAS owing	 Are courses of at least one semester in length following subjects? Select one circle in each re 	taught in your schoo ow.	l in each of the	VH240984	R	The following revisions were
a na Contra C					Yes	No			made: (1) In
	Yes	No		a. Advanced Placement [®] Biology	Ø	Ð	VH240997		subitem "a" a
a. Advanced Placement Biology	Ø	٩	VC308202	b. Advanced physics (beyond an introductory	0	Ð	VH240996		
b. International Baccalaureate® Biology c. Advanced biology (beyond an introductory	۵	Ð	VC312550	course) c. Advanced biology (beyond an introductory					trademark logo
course)	Ø	®	QK070746	course)	۲	Ð	VH240994		was added, (2)
d. Advanced Placement Environmental Science	۲	Θ	VC308502	d. Advanced chemistry (beyond an	0	Ð	VH240995		the trademark
e. International Baccalaureate Environmental				e. International Baccalaureate® Design					logo in subitem
Systems	Ø	Ð	VC312582	Technology	Ø	Ð	VH241004		"b" was moved
f. Advanced environmental science (beyond an introductory course)	۲	Ð	VC308203	f. Advanced technology (beyond an	Ø	Ð	VH241005		
g. Advanced Placement Chemistry	٩	٢	VC308204	introductory course) g. International Baccalaureate Chemistry	0		VH241002		to the subitem
h. International Baccalaureate Chemistry	٩	٢	VC312554	h. International Baccalaureate Chemistry	0	0	VH241002 VH241003		"m" per editori
i. Advanced chemistry (beyond an	۲	0	QK070747	i. International Baccalaureate Biology	0		VH240986		review, (3) in
j. Advanced Placement Physics B or C	0	Ø	VC308206	j. Advanced environmental science (beyond	۲	Ð	VH2A1019		subitem "e" th
k. International Baccalaureate Physics	Ø	6	VC3(2556	an introductory course)	9	¢.	VILLATIONY		
1. Advanced physics (beyond an introductory	0	0	OK070748	k. International Baccalaureate Environmental Systems and Societies	0	Ð	VH241001		wording "and
course)	Q		QR0/0/44	1. Advanced Placement Environmental	127				societies" was
m. International Baccalaureate Design Technology	Θ	⊕	VE312557	Science	۲	Φ	VH240998		added to matc
n. Advanced technology (beyond an	Ø	-	VC312559	m. Advanced Placement Chemistry	Ø	Ð	VH240999		
introductory course)	ω	Ø	VC312559	n. Advanced Placement Physics C o. Advanced Placement Physics 1	0	0- 0-	VH241000 VH748759		the current
2015 Grade 12)				p. Advanced Placement Physics 1 p. Advanced Placement Physics 2	0	0	VH748759 VH748760		course title, (4)
· · · · · · · · · · · · · · · · · · ·				q. Advanced Placement Computer Science A	0		VH2A1013		in subitem "j"
				r. Advanced Placement Computer Science			VH748761		the words "B o
				Principles	0	Ð	VH748761		were removed
				Issue: Organization of Instruction	on				to match the
									current course
									availability, (5)
									new subitems
									"o", "p", "q",
									and "r" were
									added based o
									stakeholder
									feedback, and
									(6) the subitem
									were rearrange
									to group simila
									content togeth
									-
									based on
									editorial review

rnegie-unit equivalen require for graduation rses for credit?	ation	VIII-LEER.	VC304872	 Beginning with ninth grade, how m course work in science does your so Less than two years Two years Three years Four years More than four years Issue: Organization of the second offer onlin Yes No 	chool or district re of Instruc	quire for graduation?	s) of	YIDAULS	V1240124	NC NC	
responsibility of t			VC304672	 Does your school offer onlin Yes 		- another			VII240124	NC	
	y of the science spec		V3E158064	Issue: Organization	of Instruc	tion			VH241455		
1	Madaata	1 1		 To what extent is each of the staff available to twelfth-gr 	he following a r rade students at Not at all	responsibility of t your school? Sele Small extent	he additional se oct one circle in Moderate extent	each row,	TRAINED	R	The following revision was made: In the
Small extent	©	Large extent	VIH158065	 Provide science course-related support, remediation, or intervention to individual students 	Ø	Φ	Ø	۵	VH241456		stem "science specialist(s)" wa replaced with
Φ	0	۵	V71158068	 Provide science course-related support, remediation, or intervention to groups of students 	Ø	Φ	Q	Φ	VH241457		"additional science staff" based on
@	0	۵	VHT/SOL7	 c. Provide science enrichment to individual students 	Ø	Ð	Ø	Ø	VH241458		cognitive interview study
Ð	Ø	۵	V11158066	 d. Provide science enrichment to groups of students 	٩	Φ	©	Ø	VH241459		results, expert committee
				Issue: Resources for	Learning	and Instru	ction				feedback, and stakeholder feedback.
s for twelfth-grade		action?	VH142103	© Yes			science instru	ction?	VH240127	NC	
s f		or twelfth-grade science instru will be skipped.	or twelfth-grade science instruction? will be skipped.	or twelfth-grade science instruction?	or twelfth-grade science instruction? 10. Does your school have labo ② Yes will be skipped. ③ No →Question X is not	or twelfth-grade science instruction? 10. Does your school have laboratory facilities ③ Yes will be skipped. ① No→Question X is not applicable and	will be skipped. will be skipped. will be skipped. will be skipped. will be skipped. will be skipped.	or twelfth-grade science instruction? 10. Does your school have laboratory facilities for twelfth-grade science instru ^(D) Yes	vincion vincion for twelfth-grade science instruction? 10. Does your school have laboratory facilities for twelfth-grade science instruction? Image: Structure of the skipped. Image: Structure of the skipped. Image: Structure of the skipped. Image: Structure of the skipped.	vnteim vnteim	viteenty ior twelfth-grade science instruction? will be skipped. NC NC NC NC NC NC

Previous item						2018 item					D/A/ R/NC+	Rationale
 To what extent are any of t Select one circle in each row 		ailable to twelft	h-grade teache	ers who teach scien	VED13630	N/A					D	To reduce schoo administrator
	Not at all	Small extent	Moderate extent	Large extent	1.2							burden and redundancy of
 a. Science textbooks (including digital forms, such as online textbooks) 	۲	Ð	0	Ø	VF863506							items across
b. Science magazines and books (including digital forms, such as online magazines and books)	8	Ð	Ø	۵	VF863510							respondent groups, this iten was dropped.
 Supplies or equipment for science demonstrations 	۲	Ð	0	Ø	VE015633							was dropped.
 Supplies or equipment for science labs 	۲	Φ	O	0	VE015634							
e. Student access to computers in class for science instruction	۵	æ	Φ	۵	VE015635							
. Student access to computer labs for science instruction	Ø	Ð	θ	Ø	VE015636							
g. Teacher access to computers for science instruction	0	θ	Ø	Φ	VE015637							
 Computerized science labs for classroom use 	0	Φ	ø	۵	VE015638							
 Audiovisual materials for science instruction 	0	Ð	Θ	Ø	VE015639							
Science kits	Ø	Ð	Q	۵	YED15640							
k. Scientific measurement instruments (e.g., telescopes, microscopes, thermometers, or weighing scales)	۵	Φ	Ø	Ø	VE015641							
2015 Grade 12)				•								
 To what extent does your s experiences? Select one circ 			idents with th	e following learni	vH142405 ng	 To what extent does your school p learning experiences? Select one cit 	rovide twelfth-gr ircle in each row.	ade students with th	ne following	¥H241510	NC	
			2 times per year	3 or more times per year	П		Not at all	1–2 times per year	3 or more times per year) II.,		
. Science fairs		0	(D)	©	VH141407	a. Science fairs	0	0	Ô	VH241511		
. Science competitions		0	0	0	VH142409	b. Science competitions	0	Φ	Ø	VH241512		
 Science-related field trips (including museums, zoos, aquariums, science centers, a other similar sites) 	t of the second	@	@	0	VH142408	c. Science-related field trips (e.g., museums, zoos, aquariums, science centers, or other similar sites)	0	Φ	ø	VH241513		

Previous item								D/A/	Rationale
								R/NC+	
12. Approximately what resources for twelf	at percenta th-grade sc	ge of your sc ience instruc	hool's classr tion? Select	rooms has th one circle in	e following t each row.	echnologic	venser	D	To reduce schoo administrator
C	0%	1-25%	26-50%	51-75%	76-99%	100%			burden and
a. Desktop computer	0	Ð	O	0	Φ	®	VED15643		redundancy of
b. Laptop computer	8	Ð	0	Ø	Ð	Ð	VED15644		items across
c. Tablet computer	۲	Ð	O	0	Ð	Ð	VH158070		respondent
d. Digital projector (device that connects to a computer to display presentations or demonstrate lessons, such as an LCD)	۵	θ	Ø	Ð	Φ	Ð	VE015646		groups, this ite was dropped.
e. CD-ROM	۲	œ	©	0	Ð	Ð	VED15647		
f. Online software	۲	Ð	0	0	Φ	۲	VED15648		
g. Digital music device (pocket-sized music player used to listen to or create audio files, such as an MP3 player)	Θ	Φ	Ø	۵	θ	Θ	VED15649		
n. Cable/satellite/ closed-circuit television	0	Ð	ø	Ð	Φ	Θ	VE015650		
 DVD player and DVDs 	0	æ	ø	0	Ð	Ð	VE015651		
. Digital camera	۲	Ð	Ø	0	Ð	Ð	YE015652		
k. Graphing	Ø	Ð	O	0	Ð	Ð	VE015653		
calculator Handheld device					-				
(pocket-sized computing device, such as personal digital assistant or smartphone)	Θ	Φ	ø	۵	Ð	Ð	VE015454		
	0%	1-25%	26-50%	51-75%	76-99%	100%			
m. Data collection sensors/probes (tool that connects to a handheld device or graphing calculator and detects motion, pH, temperature, light)	θ	θ	Ø	۵	θ	θ	VE015655		
 n. Online course management system (web-based software used to organize information, assignments, grades, and discussions) 	Ø	æ	Q	۵	Φ	Ð	VE015666		
 Digital whiteboard (computerized display panels that can respond to fingertip command and creates a shared interactive space, akin to traditional chalkboards) 	9	θ	Ø	۵	θ	θ	VE015657		

Grade 12 Science School									
Previous item	2018 item	D/A/ R/NC+	Rationale						
(2015 Grade 12)									
 In addition to their regular classroom teacher, is there a science specialist available (full- or part-time) to twelfth-grade students at your school? Yes, available full-time to twelfth-grade students Yes, available part-time to twelfth-grade students No Question X is not applicable and will be skipped. (2017 Grade 12) 	 4. In addition to their regular classroom teacher, are there any additional full- or part-time science department head) available to twelfth-grade students at your school? ④ Yes, available full-time to twelfth-grade students ④ Yes, available full-time to twelfth-grade students ④ No +Question X is not applicable and will be skipped. Issue: Resources for Learning and Instruction	R	The following revision was made: In the stem "a science specialist available (full- or part-time)" has been changed to "any additional full- or part-time science staff (e.g., a science specialist, science lead teacher, science supervisor, or science department head) available" based on cognitive interview study results, expert committee feedback, and stakeholder feedback.						

revious item						2018 item						D/A/ R/NC+	Rationale
 To what extent is your sche following resources? Select 			according to th	ie	VH341302	 To what extent is your scho following resources? Select 			according to tl	ne	VH241303-	R	The following revisions were
	Not at all	Small extent	Moderate extent	Large extent			Not at all	Small extent	Moderate extent	Large extent			made: (1) new
 District curriculum standards or curriculum guides 	θ	۹	0	θ	VH241.007	a. District curriculum standards or curriculum guides	Ø	Φ	0	Ø	VH241307		subitem "c" has been added
 State curriculum standards or frameworks 	0	٩	0	0	VH241306	b. State curriculum standards	Ø	Φ	O	۵	VH241306		based on
 In-school curriculum frameworks and standards for learning 	Θ	۵	ø	θ	VH241309	or frameworks c. Standards or frameworks common to several states	0	Ð	e	۵	VH705771		stakeholder feedback, and
 Results from district assessments 	Θ	٩	0	0	VH640850	d. In-school curriculum frameworks and standards	0	θ	9	0	VH241309		(2) new subiten
 Results from state assessments 	θ	3	0	0	VI1640851	for learning e. Results from school							"e", and "h"
. Recommendations from school science department	θ	٩	0	Ð	V11241311	assessments (e.g., quizzes or tests created by teachers)	۲	Φ	0	٢	VH241314		were added to
g. Discretion of individual teachers	Ø	¢	0	Ø	V11241312	f. Results from district assessments	0	Ð	0	Ø	YH640850		create
n. Commercially designed	٩	œ	0	Ø	VH141313	g. Results from state assessments	8	Ð	0	Ø	VH640851		consistency across subject
programs Resources found on the Internet	٩	œ	O	۵	VHM0837	h. Results from national assessments	۲	Ð	Ø	٢	VH705772		questionnaires
2017 Grade 12)		11				i. Recommendations from school science department	0	Φ	Q	0	VH241311		(2018 social
						j. Discretion of individual	۲	Ð	Ø	۵	VH241312		studies).
							© ©	0 0 0	0 0	0 0	VH241313 VH241313 VH640857		studies).
						j. Discretion of individual teachers k. Commercially designed programs 1. Resources found on the	Ø	¢ ¢	Ø	Ð	VH241313		studies).
 To what extent is each of t available to twelfth-grade t 	he following a teachers at you	responsibility of tl	he science coac ae circle in eacl	ch(es) h row.	VH2N1460	j. Discretion of individual teachers k. Commercially designed programs 1. Resources found on the Internet	© © of Instruc	D D tion	© © he additional so	© ©	VH241313	R	The following
 To what extent is each of t available to twelfth-grade t 	he following a teachers at you Not at all	responsibility of t r school? Select on Small extent	he science coac te circle in eacl Moderate extent	ch(es) h row.	17831460	j. Discretion of individual teachers k. Commercially designed programs l. Resources found on the Internet Issue: Organization of 7. To what extent is each of th	© © of Instruc	D D tion	© © he additional so	© ©	VH241313 VH640857	R	The following revision was made: In the
available to twelfth-grade t a. Provide support/assistance about science content or the teaching of science to individual teachers	teachers at you	r school? Select on	ie circle in eacl Moderate	h row.	V91341460 V912a1461	j. Discretion of individual teachers k. Commercially designed programs l. Resources found on the Internet Issue: Organization of 7. To what extent is each of th	© of Instructure the following a stude teachers at	D D tion responsibility of t your school? Sele	© © he additional sect one circle in Moderate	© © tience each row.	VH241313 VH640857	R	The following revision was made: In the stem "the science coach"
available to twelfth-grade t a. Provide support/assistance about science content or the teaching of science to	Not at all	school? Select on	ie circle in eacl Moderate extent	h row.		 j. Discretion of individual teachers k. Commercially designed programs l. Resources found on the Internet Issue: Organization of the staff available to twelfth-gravitation of the staff available to twelfth-gravitation of the staff available to twelfth-gravitation of the staff available to the teaching of science to individual teachers b. Provide technical support/assistance with lab equipment to individual 	© © of Instruc se following a side teachers at Not at all	D D tion responsibility of t your school? Sele Small extent	© © he additional s ect one circle in Moderate extent	© © cience each row. Large extent	VH241315 V1542857 V1541867	R	The following revision was made: In the stem "the science coach" has been changed to "the
available to twelfth-grade to a. Provide support/assistance about science content or the teaching of science to individual teachers b. Provide technical support/ assistance with lab equipment to individual	Not at all	r school? Select on Small extent	e circle in eacl Moderate extent ©	h row.	Vət2a1461	 j. Discretion of individual teachers k. Commercially designed programs I. Resources found on the Internet Issue: Organization of the staff available to twelfth-gravitation of the staff available to twelfth-gravitation of science content or the teaching of science to individual teachers b. Provide technical support/assistance with lab 	© © of Instruct te following a ide teachers at Not at all ©	D D tion responsibility of t your school? Sele Small extent D	© © he additional so ect one circle in Moderate extent	© © cience each row. Large extent ©	V11241335 V13648657 V1364860 V13541661	R	The following revision was made: In the stem "the science coach" has been

+ This column indicates whether the item was dropped (D), added (A), revised (R), or there was no change (NC).

Previous item				2018 item				D/A/ R/NC+	Rationale
 1s there a science coach available (full- or part-time) to twelfth-grade teachers at your school? Yes, available full-time to twelfth-grade teachers Yes, available part-time to twelfth-grade teachers No Question X is not applicable and will be skipped. (2017 Grade 12) 		771240126	 Are there any additional full- or part-time science staff (e.g., a science coach, science lead teacher, science supervisor, or science department head) available to twelfth-grade teachers at your school? Yes, available full-time to twelfth-grade teachers Yes, available part-time to twelfth-grade teachers No →Question X is not applicable and will be skipped. Issue: Resources for Learning and Instruction 			VID6ID5	R	The following revision was made: In the stem "Is there a science coach available (full- or part-time)" has been changed to "Are there any additional full- or part-time science staff (e.g., a science coach, science lead teacher, science supervisor, or science department head) available".	
In this school year, is there a science club offer school? Select one circle in each row.	red to twelfth-grade s	tudents in your	\3E341506	 In this school year, are any of the following ty twelfth-grade students in your school? Select of 	pes of science clubs o one circle in each row	ffered to	VH241506	R	The following revision was
	Yes	No			Yes	No			made: In the sten
 Parent volunteered (initiated and run by individual parents) 	۵	θ	VH643599	 Parent volunteered (initiated and run by individual parents) 	0	Ð	VH643899		"is there a scienc
b. Teacher volunteered (initiated and run by individual teachers)	۲	0	V14241507	 b. Teacher volunteered (initiated and run by individual teachers) 	۵	Ð	VH241507		club offered" wa changed to "are
 School sponsored (initiated by school and run by school designated personnel) 	Ø	Ø	VH241509	 c. School sponsored (initiated by school and run by school designated personnel) 	۵	D.	VH241509		any of the
 Partnered with external agencies (such as universities, science museums, or industries) 	Ø	0	VH241508	d. Partnered with external agencies (e.g., universities, science museums, or companies)	Ø	Ð	VH241508		following types o science clubs
(2017 Grade 12)				Issue: Resources for Learning an	d Instruction				offered" based or cognitive interview study results, expert committee feedback, and stakeholder feedback.

+ This column indicates whether the item was dropped (D), added (A), revised (R), or there was no change (NC).

Previous item						2018 item					D/A/ R/NC+	Rationale	
 5. To what extent does your school provide up-to-date technology resources for science teaching and learning? © Not at all © Small extent © Moderate extent © Large extent (2017 Grade 12) 					 9. To what extent does your school provide up-to-date technology resources for science teaching and learning? ② Not at all ③ Small extent ③ Moderate extent ③ Large extent Issue: Resources for Learning and Instruction 				NC				
6. To what extent do your sch twelfth-grade instruction h	ool's science la ave the followi	boratories that ar ng features? Selec	e available for t one circle in	each row.	V2E243464	11. To what extent do your sch twelfth-grade instruction h				each row.	VH243464	R	The following revisions were
	Not at all	Small extent	Moderate	Large extent		1 · · · · · · · · · · · · · · · · · · ·	Not at all	Small extent	Moderate	Large extent			made: (1)
a Demonstration stations			extent	and a second	VH241465			II. The second second	extent	ø			subitem "h" wa
a. Demonstration stations b. Student lab stations	@ @	0	0 0	0	VH241465 VH241466	a. Demonstration stations	0	00	Ø	۵	VH241465		
c. Storage areas for chemicals					-	b. Student lab stations	0	0	O	۵	VH241466		changed to
and other supplies	0	Ð	Θ	۵	VH241467	 c. Storage areas for chemicals and other supplies 	Ø	œ	ø	0	VH241467		include examp
I. Electricity	8	0	0	0	V11241468	d. Electricity	٩	Φ	©	Ø	VH241468		content based
e. Running water	0	Ø	0	٩	VH241469	e. Running water	9	0	Q	0	VH241469		
f. Gas for burners	0	۹	0	0	VH241470	f. Gas for burners	0	0	O	0	VH241470		on cognitive
g. Hoods or air hoses	۲	0	0	0	V8/241471	g. Hoods or air hoses	0	D D	O	0	VH241471		interview study
h. Safety equipment	۲	۲	¢	۵	VH241472	h. Safety equipment (e.g.,	1	-					results, and (2)
i. Computers j. Internet connection	٩	٢	0	0	VH241473 VH241474	goggles, fire extinguishers,	٩	æ	O	Ø	VH241472		
2017 Grade 12)	0	Ð	Ø	Ø	Vi(24)474	or eye wash stations) i. Computers and other digital devices	۲	D D	Ø	Ø	VH241473		subitem "I" wa revised to
(j. Internet connection	٩	œ	O	۵	VH241474		
													include "and
						Issue: Resources for							other digital devices" to create consistency across items.

Appendix I-31: Pilot Grade 4 Science

Note that pilot items are labeled as 2019 pilot which indicates that they will be piloted in 2018 for operational use in 2019.

- 1. In addition to their regular classroom teacher, are there any additional full- or part-time science staff (e.g., a science specialist, science lead teacher, science supervisor, or science department head) available to fourth-grade students at your school?
 - Tes, available full-time to fourth-grade students
 - (Yes, available part-time to fourth-grade students
 - \bigcirc No \rightarrow Question X is not applicable and will be skipped.
- **2.** To what extent is each of the following a responsibility of the additional science staff available to fourth-grade students at your school? Select **one** circle in each row.

		Not at all	Small extent	Moderate extent	Large extent	
a.	Provide science course-related support, remediation, or intervention to individual students	0	®	Q	Ø	VH241297
b.	Provide science course-related support, remediation, or intervention to groups of students	0	6	Ø	Ø	VH241298
c.	Provide science enrichment to individual students	Ø	ß	Ø	0	VH241299
d.	Provide science enrichment to groups of students	Ø	ß	Ø	Ø	VH241300

VH241296

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2019 Pilot Grade 4 Science School Items

- ℬ Yes, available full-time to fourth-grade teachers
- [®] Yes, available part-time to fourth-grade teachers
- \bigcirc No \rightarrow Question X is not applicable and will be skipped.

4. To what extent is each of the following a responsibility of the additional science staff available to fourth-grade teachers at your school? Select **one** circle in each row.

		Not at all	Small extent	Moderate extent	Large extent	
with steach	de support/assistance science content or the ing of science to idual teachers	0	®	0	Ø	VH241302
assist	de technical support/ ance with lab ment to individual ers	0	®	0	0	VH640260
develo or the	uct professional opment about science e teaching of science oups of teachers	0	®	Ø	Ø	VH241303

VH240118

5. To what extent is your school's science program structured according to the following resources? Select **one** circle in each row.

		Not at all	Small extent	Moderate extent	Large extent	
a.	District curriculum standards or curriculum guides	Ø	®	Ø	Ø	VH241307
b.	State curriculum standards or frameworks	A	B	0	0	VH241306
c.	Standards or frameworks common to several states	A	®	O	D	VH705771
d.	In-school curriculum frameworks and standards for learning	Ø	®	Ø	Ø	VH241309
e.	Results from school assessments (e.g., quizzes or tests created by teachers)	۵	®	Ø	Ø	VH241314
f.	Results from district assessments	A	B	O	Ø	VH640850
g.	Results from state assessments	A	B	O	D	VH640851
h.	Results from national assessments	A	®	O	D	VH705772
i.	Discretion of individual teachers	A	B	O	D	VH241312
j.	Commercially designed programs	۵	®	O	D	VH241313
k.	Resources found on the Internet	۵	B	O	D	VH640857

6. To what extent do your school's fourth-grade science curricula focus on preparation for the following types of assessments? Select **one** circle in each row.

	Not at all	Small extent	Moderate extent	Large extent	
a. State assessments	A	®	O	D	VH241319
b. District assessments	۲	®	Ô	Ð	VH241318
c. School assessments (e.g., quizzes or tests created by teachers)	۵	®	Ø	Ø	VH640864

VH642831

VH241315

- 7. To what extent does your school provide up-to-date technology resources for science teaching and learning?
 - Not at all
 - Small extent
 - © Moderate extent
 - D Large extent

- 8. Does your school have laboratory facilities for fourth-grade science instruction?
 - Yes
 Yes
 - [®] No →Question X is not applicable and will be skipped.

	Not at all	Small extent	Moderate extent	Large extent	
a. Demonstration stations	Ø	®	O	D	VH241321
b. Student lab stations	Ø	®	C	D	VH241322
c. Storage areas for chemicals and other supplies	۵	®	©	D	VH241323
d. Electricity (for example, power outlets for using lab equipment)	۵	®	O	D	VH241324
e. Running water	A	®	O	D	VH241330
f. Gas for burners	Ø	®	C	D	VH241326
g. Hoods or air hoses	Ø	®	C	D	VH241327
h. Safety equipment (e.g., goggles, fire extinguishers, or eye wash stations)	۵	®	O	Ø	VH241328
i. Computers and other digital devices	Ø	®	O	Ø	VH241329
j. Internet connection	®	B	©	D	VH241325

9. To what extent do your school's science laboratories that are available for fourth-grade instruction have the following features? Select **one** circle in each row.

10. In this school year, are any of the following types of science clubs offered to fourth-grade students in your school? Select **one** circle in each row.

	Yes	No	
a. Parent volunteered (initiated and run by individual parents)	۵	®	VH640872
b. Teacher volunteered (initiated and run by individual teachers)	Ø	®	VH241363
c. School sponsored (initiated by school and run by school designated personnel)	Ø	®	VH241365
d. Partnered with external agencies (e.g., universities, science museums, or companies)	۵	®	VH241364

VH241320

2019 Pilot Grade 4 Science School Items

	Not at all	1–2 times per year	3 or more times per year	
a. Science fairs	A	®	©	VH241367
b. Science competitions	A	®	©	VH241368
c. Science-related field trips (e.g., museums, zoos, aquariums, science centers, or other similar sites)	(9	®	©	VH241369

11. To what extent does your school provide fourth-grade students with the following learning experiences? Select **one** circle in each row.

Appendix I-3m: Pilot Grade 8 Science

Note that pilot items are labeled as 2019 pilot which indicates that they will be piloted in 2018 for operational use in 2019.

- 1. In addition to their regular classroom teacher, are there any additional full- or part-time science staff (e.g., a science specialist, science lead teacher, science supervisor, or science department head) available to eighth-grade students at your school?
 - Tes, available full-time to eighth-grade students
 - (Yes, available part-time to eighth-grade students
 - \bigcirc No \rightarrow Question X is not applicable and will be skipped.
- **2.** To what extent is each of the following a responsibility of the additional science staff available to eighth-grade students at your school? Select **one** circle in each row.

		Not at all	Small extent	Moderate extent	Large extent	
a.	Provide science course-related support, remediation, or intervention to individual students	0	®	Q	Ø	VH241371
b.	Provide science course-related support, remediation, or intervention to groups of students	Ø	ഀ	Ø	Ø	VH241372
c.	Provide science enrichment to individual students	Ø	ഀ	Ø	Ø	VH241373
d.	Provide science enrichment to groups of students	Ø	ß	Ø	Ø	VH241374

VH241370

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2019 Pilot Grade 8 Science School Items

- Tes, available full-time to eighth-grade teachers
- [®] Yes, available part-time to eighth-grade teachers
- \bigcirc No \rightarrow Question X is not applicable and will be skipped.

4. To what extent is each of the following a responsibility of the additional science staff available to eighth-grade teachers at your school? Select **one** circle in each row.

		Not at all	Small extent	Moderate extent	Large extent	
with scien	upport/assistance nce content or the of science to l teachers	0	©	0	Ø	VH241376
assistance	echnical support/ e with lab at to individual	0	©	0	0	VH640268
or the tea	professional ent about science ching of science s of teachers	0	©	Ø	Ø	VH241377

VH240121

5. To what extent is your school's science program structured according to the following resources? Select **one** circle in each row.

		Not at all	Small extent	Moderate extent	Large extent	
sta	istrict curriculum andards or curriculum 11des	۵	ß	Q	Ø	VH241307
	ate curriculum standards frameworks	A	ß	0	Ø	VH241306
	andards or frameworks	$\textcircled{\ }$	B	O	D	VH705771
fra	a-school curriculum ameworks and standards or learning	۵	®	Ø	Ø	VH241309
as	esults from school ssessments (e.g., quizzes c tests created by teachers)	۵	®	Ø	Ø	VH241314
	esults from district ssessments	٨	B	O	D	VH640850
10	esults from state ssessments	۵	B	©	D	VH640851
	esults from national ssessments	٨	B	O	D	VH705772
	ecommendations from chool science department	۵	B	©	D	VH241311
17	iscretion of individual eachers	۵	B	O	D	VH241312
1	ommercially designed cograms	۵	B	O	D	VH241313
1	esources found on the aternet	۵	B	O	D	VH640857

6. To what extent do your school's eighth-grade science curricula focus on preparation for the following types of assessments? Select **one** circle in each row.

	Not at all	Small extent	Moderate extent	Large extent	
a. State assessments	Ø	®	O	D	VH241383
b. District assessments	A	®	Ô	Ð	VH241382
c. School assessments (e.g., quizzes or tests created by teachers)	0	®	Ø	Ø	VH643937

VH642831

VH241379

- 7. To what extent does your school provide up-to-date technology resources for science teaching and learning?
 - Not at all
 - Small extent
 - © Moderate extent
 - D Large extent

- 8. Does your school have laboratory facilities for eighth-grade science instruction?
 - Yes
 Yes
 - [®] No →Question X is not applicable and will be skipped.

				-	
	Not at all	Small extent	Moderate extent	Large extent	
a. Demonstration stations	۵	®	O	D	VH241385
b. Internet connection	A	®	O	D	VH241389
c. Student lab stations	A	®	C	D	VH241386
d. Storage areas for chemicals and other supplies	۵	®	C	D	VH241387
e. Electricity (for example, power outlets for using lab equipment)	Ø	®	O	Ø	VH241388
f. Running water	A	®	C	D	VH241394
g. Gas for burners	A	®	C	D	VH241390
h. Hoods or air hoses	A	®	C	D	VH241391
i. Safety equipment (e.g., goggles, fire extinguishers, or eye wash stations)	Ø	(6)	O	Ø	VH241392
j. Computers and other digital devices	۵	®	©	©	VH241393

9. To what extent do your school's science laboratories that are available for eighth-grade instruction have the following features? Select **one** circle in each row.

10. In this school year, are any of the following types of science clubs offered to eighth-grade students in your school? Select **one** circle in each row.

	Yes	No	
a. Parent volunteered (initiated and run by individual parents)	0	ſ	VH643916
b. Teacher volunteered (initiated and run by individual teachers)	Ø	®	VH241447
c. School sponsored (initiated by school and run by school designated personnel)	0	®	VH241449
d. Partnered with external agencies (e.g., universities, science museums, or companies)	0	®	VH241448

VH241384

2019 Pilot Grade 8 Science School Items

	Not at all	1–2 times per year	3 or more times per year	
a. Science fairs	A	®	©	VH241452
b. Science competitions	A	®	©	VH241453
c. Science-related field trips (e.g., museums, zoos, aquariums, science centers, or other similar sites)	(9	®	©	VH241454

11. To what extent does your school provide eighth-grade students with the following learning experiences? Select **one** circle in each row.

Appendix I-3n: Pilot Grade 12 Science

Note that pilot items are labeled as 2019 pilot which indicates that they will be piloted in 2018 for operational use in 2019.

2019 Pilot Grade 12 Science School Items

1. Beginning with ninth grade, how many years (or Carnegie-unit equivalents) of course work in science does your school or district require for graduation?

- Less than two years
- [®] Two years
- © Three years
- Four years
 Four years
 A second seco
- © More than four years
- **2.** Does your school offer online science courses for credit?
 - (A) Yes
 - B No
 No

VH240123

3. Are courses of at least one semester in length taught in your school in each of the following subjects? Select **one** circle in each row.

	Yes	No	
a. Advanced Placement [®] Biology	A	®	VH240997
b. Advanced physics (beyond an introductory course)	æ	®	VH240996
c. Advanced biology (beyond an introductory course)	۲	₿	VH240994
d. Advanced chemistry (beyond an introductory course)	۲	ß	VH240995
e. International Baccalaureate [®] Design Technology	۲	₿	VH241004
f. Advanced technology (beyond an introductory course)	۲	B	VH241005
g. International Baccalaureate Chemistry	A	ß	VH241002
h. International Baccalaureate Physics	A	®	VH241003
i. International Baccalaureate Biology	A	®	VH240986
j. Advanced environmental science (beyond an introductory course)	æ	®	VH241019
k. International Baccalaureate Environmental Systems and Societies	æ	®	VH241001
1. Advanced Placement Environmental Science	æ	®	VH240998
m. Advanced Placement Chemistry	A	®	VH240999
n. Advanced Placement Physics C	Ø	B	VH241000
o. Advanced Placement Physics 1	A	ß	VH748759
p. Advanced Placement Physics 2	A	®	VH748760
q. Advanced Placement Computer Science A	Ø	B	VH241013
r. Advanced Placement Computer Science Principles	A	B	VH748761

- **4.** In addition to their regular classroom teacher, are there any additional full- or part-time science staff (e.g., a science specialist, science lead teacher, science supervisor, or science department head) available to twelfth-grade students at your school?
 - Tes, available full-time to twelfth-grade students
 - (1) Yes, available part-time to twelfth-grade students
 - \bigcirc No \rightarrow Question X is not applicable and will be skipped.

	Not at all	Small extent	Moderate extent	Large extent	
a. Provide science course-related support, remediation, or intervention to individual students	۵	6	O	O	VH241456
b. Provide science course-related support, remediation, or intervention to groups of students	۲	6	©	O	VH241457
c. Provide science enrichment to individual students	æ	®	Ø	Ø	VH241458
d. Provide science enrichment to groups of students	۵	®	©	©	VH241459

5. To what extent is each of the following a responsibility of the additional science staff available to twelfth-grade students at your school? Select **one** circle in each row.

- **6.** Are there any additional full- or part-time science staff (e.g., a science coach, science lead teacher, science supervisor, or science department head) available to twelfth-grade teachers at your school?
 - Tes, available full-time to twelfth-grade teachers
 - (Yes, available part-time to twelfth-grade teachers
 - \bigcirc No \rightarrow Question X is not applicable and will be skipped.

7. To what extent is each of the following a responsibility of the additional science staff available to twelfth-grade teachers at your school? Select **one** circle in each row.

		Not at all	Small extent	Moderate extent	Large extent	
a.	Provide support/assistance with science content or the teaching of science to individual teachers	Ø	®	0	Ø	VH241461
b.	Provide technical support/ assistance with lab equipment to individual teachers	0	®	0	0	VH640273
c.	Conduct professional development about science or the teaching of science for groups of teachers	Ø	®	Ø	Ø	VH241462

	Not at all	Small extent	Moderate extent	Large extent	
a. District curriculum standards or curriculum guides	Ø	®	O	Ø	VH241307
b. State curriculum standards or frameworks	æ	®	0	Ø	VH241306
c. Standards or frameworks common to several states	Ø	®	O	Ø	VH705771
d. In-school curriculum frameworks and standards for learning	Ø	®	Ø	Ø	VH241309
e. Results from school assessments (e.g., quizzes or tests created by teachers)	Ø	®	Ø	Ø	VH241314
f. Results from district assessments	Ø	®	O	D	VH640850
g. Results from state assessments	æ	®	O	Ø	VH640851
h. Results from national assessments	æ	®	0	0	VH705772
i. Recommendations from school science department	æ	®	0	0	VH241311
j. Discretion of individual teachers	Ø	®	O	Ø	VH241312
k. Commercially designed programs	æ	®	O	Ø	VH241313
1. Resources found on the Internet	A	®	O	Ø	VH640857

8. To what extent is your school's science program structured according to the following resources? Select **one** circle in each row.

VH642831

9. To what extent does your school provide up-to-date technology resources for science teaching and learning?

- Not at all
- Small extent
- © Moderate extent
- D Large extent

- (A) Yes
- **(B)** No \rightarrow Question X is not applicable and will be skipped.

11. To what extent do your school's science laboratories that are available for twelfth-grade instruction have the following features? Select **one** circle in each row.

	Not at all	Small extent	Moderate extent	Large extent	
a. Demonstration stations	Ø	®	Ô	Ø	VH241465
b. Student lab stations	$\textcircled{\label{eq:alpha}}$	®	Ô	Ð	VH241466
c. Storage areas for chemicals and other supplies	A	B	Ø	0	VH241467
d. Electricity	Ø	®	Ô	Ð	VH241468
e. Running water	$\textcircled{\label{eq:lag}}$	®	O	Ð	VH241469
f. Gas for burners	$\textcircled{\label{eq:alpha}}$	®	Ô	Ð	VH241470
g. Hoods or air hoses	$\textcircled{\label{eq:lag}}$	®	Ô	Ð	VH241471
h. Safety equipment (e.g., goggles, fire extinguishers, or eye wash stations)	Ø	ß	Ø	0	VH241472
i. Computers and other digital devices	A	B	O	0	VH241473
j. Internet connection	${}^{}$	®	O	Θ	VH241474

VH241464

12. In this school year, are any of the following types of science clubs offered to twelfth-grade students in your school? Select **one** circle in each row.

	Yes	No	
a. Parent volunteered (initiated and run by individual parents)	Ø	®	VH643899
b. Teacher volunteered (initiated and run by individual teachers)	Ø	®	VH241507
c. School sponsored (initiated by school and run by school designated personnel)	۵	6	VH241509
d. Partnered with external agencies (e.g., universities, science museums, or companies)	۵	(8)	VH241508

13. To what extent does your school provide twelfth-grade students with the following learning experiences? Select **one** circle in each row.

	Not at all	1–2 times per year	3 or more times per year	
a. Science fairs	A	®	©	VH241511
b. Science competitions	$\textcircled{\ }$	®	©	VH241512
c. Science-related field trips (e.g., museums, zoos, aquariums, science centers, or other similar sites)	0	®	©	VH241513

VH241506

Appendix I-30: Summary of Revisions 2018 Grades 8 Social Studies

evious item								2018 item								D/A/ R/NC+	Rationale
 At what grade do s one or more square 	students in y es in each ro	our school t w.	ypically tak	ce the followi	ing classes?	Select	VH494277	1. At what grade do so one or more square			ypically tak	te the follow	ing classes?	Select	VB494277	NC	N/A
·	5th grade	6th grade	7th grade	8th grade	9th grade	This class is not offered in my school.			5th grade	6th grade	7th grade	8th grade	9th grade	This class is not offered in my school.			
A class primarily focused on civics and/or United States government	Ø	Ð	Ø	٩	Ð	Ð	VH494278	 A class primarily focused on civics and/or United States government 	Ø	Ð	9	Ø	Ð	Ð	VH494278		
 A class primarily focused on geography 	Ø	Ð	ø	Θ	Φ	Ð	VH494279	 A class primarily focused on geography 	0	Ð	0	۵	Ð	Ð	VH494279		
 A class primarily focused on United States history 	Ø	Ð	©	Ð	θ	Ð	YH49428D	c. A class primarily focused on United States history	0	Ð	0	Ø	Ð	Ð	V73494280		
 A class that integrates two or more areas of social studies (e.g., civics and/or United States government, geography, or United States history) 	Ø	Ð	Ø	Ø	Φ	Φ	YH494281	d. A class that integrates two or more areas of social studies (e.g., civics and/or United States government, geography, or United States history)	Θ	Ð	Ø	Φ	Ð	Ø	VFI494284		
017 Grade 8) 6. This year, have the sessions and works social studies teach	e following p shops, includ	ting online of	classes) beer	n offered in yo	e.g., training our school f	; or	V76495689	2. This year, have the sessions and works social studies teach	following p	rofessional oling online o	developmen dasses) beer	n offered in y	e.g., training our school fi	10	VII4056899	R	Previous subitem "c" w
		Yes, pro school o perso	r district	Yes, provided professiona outside of n school or dist	ls iy	No				Yes, pro school o perso	r district	Yes, provided professiona outside of n school or dist	ds ny	No			replaced with new subitems, "c" and "d"
Programs aimed at d and improving pract studies instruction	tices for socia	al c	D	Ð		0	VH49569D	 Programs aimed at d and improving practi studies instruction 	eveloping ices for socia	il <	Ø	Ð		0	VH495690		based on participant
 Programs aimed at d and improving gener practices 		q	D	Φ		©	VH495691	b. Programs aimed at d and improving gener practices		0	D	Ð		Ø	VH495691		responses that
Other professional d program(s) (Please s)			D	Ð		©	VH495694	 Programs aimed at d and improving gener critical reading and y 	al teaching (of c	D	Ð		Ø	VH717354		were exceedingly
								d. Programs aimed at u technology in the cla	sing	1	D	Ð		©	VH717355		reported.

+ This column indicates whether the item was dropped (D), added (A), revised (R), or there was no change (NC).

evious item	2018 item					D/A/ R/NC+	Rationale								
and/or United States g	. How much is your school's social studies program for eighth graders (e.g., civics and/or United States government, geography, or United States history) structured according to the following resources? Select one circle in each row.					 How much is your sch and/or United States g according to the follow 	overnment, g	eography, or U	nited States	history) structu	cs red	VII494355	R	Subitems "c" an "g" were	
	Not at all	Very little	Some	Quite a bit	A lot			Not at all	Very little	Some	Quite a bit	A lot			dropped to
District curriculum standards or curriculum guides	٩	Φ	Ø	Ð	Ð	VH494356	 District curriculum standards or curriculum guides 	0	Ð	0	۵	Ð	VI4494356		create consistency wit
State curriculum standards or frameworks	۵	Ð	O	0	Φ	VH494357	b. State curriculum standards or frameworks		ADC decisions made for 2017						
National curriculum standards or frameworks	Ø	Ð	Ø	θ	Φ	VH494858	 c. In-school curriculum frameworks and standards for learning 	Ø	Ð	Ø	۵	Ð	VH494359		operational assessments. Subitem "h" was revised for consistency
In-school curriculum frameworks and standards for learning	9	Ð	0	θ	Ð	VI1494359	d. Results from district assessments	۵	Ø	0	٩	Ð	VH494360		
Results from district assessments	Ø	Ð	Ø	Ø	Ð	VTH49436D	e. Results from state assessments	٩	Ð	0	۵	Ð	VH494561		
Results from state assessments	Ø	Ð	O	Ø	Ð	VH494361	f. Recommendations from school social	0	Ð	©	Ø	Ð	VH727954		
Results from national assessments	Ø	Ð	Ø	Ð	Ð	VH494362	studies department g. Discretion of	0	Ð	O	Ø	Ð	VH494364		
Recommendations from district social studies department	٩	Ð	©	Ð	Ð	VH494363	individual teachers h. Results from school assessments (e.g., quizzes or tests	Ø	Ð	©	Ø	Ð	VH494365		across subjects
Discretion of individual teachers	٩	Ð	©	Ø	Ð	VI(494364	created by teachers)								
Results from school assessments (e.g., quizzes or tests created by teachers)	٩	Ð	Ø	θ	Ð	VH494365	i. Resources found on the Internet	Ø	Ð	Ø	٢	Ð	VH494366		
Resources found on the Internet	Ø	Ð	0	Ð	Φ	VH494366	Issue: Organizatio	n of Inst	ruction						
 How much does your and/or United States preparation for the fo 	government, j llowing types	geography, or U of assessments	Jnited States s? Select one	history) focus o circle in each ro	n ow.	V78494369	 How much does your and/or United States g preparation for the fol 	overnment, g	eography, or U	nited States	history) focus or	1	V1H94369	R	Subitem "e" wa dropped to create
District assessments	Not at all	Very little	Some	Quite a bit	A lot	VH494370		Not at all	Very little	Some	Quite a bit	A lot			consistency wit
a. District assessments b. State assessments	@ @	•	0	0	Ð	VH494370 VH494371	a. District assessments	0	Ð	©	۵	Ð	VH494370		ADC decisions
c. National assessments	0	D D	0	0	Ð	VH494372	b. State assessments	0	Ð	©	0	Φ	VH494371		
d. School assessments (e.g., quizzes or tests created by teachers)	Ø	Ð	0	۵	Ð	VH494373	c. School assessments (e.g., quizzes or tests created by teachers)	0	Φ	۵	۵	Φ	VH494373		made for 2017 operational
e. Computer-based or online assessments (e.g., national assessments or tests	۹	Ð	0	Φ	Ð	VH494374	Issue: Organizatio	an of Inc	truction						assessments.

+ This column indicates whether the item was dropped (D), added (A), revised (R), or there was no change (NC).

revious item				2018 item				D/A/ R/NC+	Rationale		
 Does your school offer any of the following se fall behind or need extra help in social studies government, geography, or United States histo 	ervices for eighth-grade s (e.g., civics and/or Un ory)? Select one circle	e students who nited States in each row.	VH494346	 Does your school offer any of the following se fall behind or need extra help in social studies government, geography, or United States histo 	s (e.g., civics and/or U	nited States	VB494346	R	Subitem "f" was dropped given		
	Yes	No			Yes	No			that over 88% of		
a. Tutoring	Ø	Ð	VH494347	a. Tutoring	@	Ð	VH494347		respondents		
b. Placement of instructional aides in classrooms to provide assistance	Ø	Θ	VH454348	b. Placement of instructional aides in classrooms to provide assistance	0	9 9	VH494348		chose "No".		
c. Use of instructional aides for pull-out instruction	۵	θ	V11494349	c. Use of instructional aides for pull-out instruction	۵	Ø	VH494349				
d. Extra work or homework	۵	۵	VI1494350	d. Extra work or homework	0	Ð	VH494350	1			
e. Before- or after-school programs	Ø	Ð	VH494351	e. Before- or after-school programs	0	0	VH494351	1			
. Saturday classes	Ø	Ð	VH494352	F. Summer school programs	0	Ð	VH494353				
g. Summer school programs	0	Ð	VH494353	g. Extra help for English-language learners	0	0	VH494354				
2017 Grade 8)				Issue: Resources for Learning a	nd Instructio	n					
2017 Grade 8) 5. Does your school offer any of the following so eighth-grade students? Select one circle in eac	ch row.		VH405721	 Issue: Resources for Learning a 6. Does your school offer any of the following s eighth-grade students? Select one circle in ea 	chool-sponsored activ		¥14495721	R	Subitem "e" wa dropped given		
 Does your school offer any of the following sc eighth-grade students? Select one circle in each 	ch row. Yes	No		 Does your school offer any of the following s 	chool-sponsored activ ch row.	ities to	¥1495723	R	dropped given that		
 5. Does your school offer any of the following sceighth-grade students? Select one circle in ear a. Student government 	ch row.		VH409721 VH4095722	 Does your school offer any of the following s eighth-grade students? Select one circle in ea 	chool-sponsored activ ch row. Yes	ities to No		R	dropped given		
5. Does your school offer any of the following see eighth-grade students? Select one circle in each student government b. Classes with a community service component	ch row. Yes	No		 6. Does your school offer any of the following s eighth-grade students? Select one circle in ea a. Student government 	chool-sponsored activ ch row. Yes ©	No D	V914%5722	R	dropped given that		
5. Does your school offer any of the following sceighth-grade students? Select one circle in ear a. Student government b. Classes with a community service component c. Clubs with a community service component	Yes	No	V14495722	 6. Does your school offer any of the following s eighth-grade students? Select one circle in ea a. Student government b. Classes with a community service component 	chool-sponsored activ ch row. Yes Ø	No ©	V91455722 V91455723	R	dropped given that "Other(Please		
eighth-grade students? Select one circle in east a. Student government b. Classes with a community service component c. Clubs with a community service component d. Special courses or workshops to improve skills with computers or other digital	Yes © ©	No ©	V14495722 V14495723	 6. Does your school offer any of the following s eighth-grade students? Select one circle in ea a. Student government b. Classes with a community service component c. Clubs with a community service component d. Special courses or workshops to improve 	chool-sponsored activ ch row. Yes ©	No © ©	V31495722 V31495723 V1495724	R	dropped given that "Other(Please specify)" should only be used in pilot to ensure		
5. Does your school offer any of the following sc eighth-grade students? Select one circle in ear a. Student government b. Classes with a community service component c. Clubs with a community service component d. Special courses or workshops to improve	Yes © © ©	No D D D	V1495722 V1495723 V1495724	 6. Does your school offer any of the following seighth-grade students? Select one circle in ea a. Student government b. Classes with a community service component c. Clubs with a community service component 	chool-sponsored activ ch row. Yes Ø	No D	V91455722 V91455723	R	dropped given that "Other(Please specify)" should only be used in		

Appendix I-3p: 2018 Operational Grade 8 Social Studies

1. At what grade do students in your school typically take the following classes? Select **one or more** squares in each row.

		5th grade	6th grade	7th grade	8th grade	9th grade	This class is not offered in my school.	
a.	A class primarily focused on civics and/or United States government	Ø	ß	O	Ø	Ē	Ð	VH494278
b.	A class primarily focused on geography	Ø	ß	O	Ø	e	θ	VH494279
c.	A class primarily focused on United States history	Ø	ß	O	Ø	Ð	θ	VH494280
d.	A class that integrates two or more areas of social studies (e.g., civics and/or United States government, geography, or United States history)	Ø	0	©	Ø	¢	ſ	VH494281

2. This year, have the following professional development programs (e.g., training sessions and workshops, including online classes) been offered in your school for social studies teachers? Select one or more squares in each row.

		Yes, provided by school or district personnel	Yes, provided by professionals outside of my school or district	No	
a.	Programs aimed at developing and improving practices for social studies instruction	0	₿	Ø	VH495690
b.	Programs aimed at developing and improving general teaching practices	0	₿	Ø	VH495691
c.	Programs aimed at developing and improving general teaching of critical reading and writing skills	0	ഀ	O	VH717354
d.	Programs aimed at using technology in the classroom	8	₿	O	VH717355

VH494355

3. How much is your school's social studies program for eighth-graders (e.g., civics and/or United States government, geography, or United States history) structured according to the following resources? Select **one** circle in each row.

		Not at all	Very little	Some	Quite a bit	A lot	
a.	District curriculum standards or curriculum guides	۵	®	O	Ø	Ē	VH494356
b.	State curriculum standards or frameworks	Ø	ß	O	0	Ē	VH494357
c.	In-school curriculum frameworks and standards for learning	8	6	Ø	Ø	Θ	VH494359
d.	Results from district assessments	A	®	O	Ø	Ē	VH494360
e.	Results from state assessments	A	®	O	Ø	Ē	VH494361
f.	Recommendations from school social studies department	Ø	®	O	Ø	Ē	VH727954
g.	Discretion of individual teachers	A	®	©	O	Ē	VH494364
h.	Results from school assessments (e.g., quizzes or tests created by teachers)	0	®	O	Ø	Ē	VH494365
i.	Resources found on the Internet	A	ß	O	Ø	Ē	VH494366

4. How much does your school's eighth-grade social studies curriculum (e.g., civics and/or United States government, geography, or United States history) focus on preparation for the following types of assessments? Select **one** circle in each row.

	Not at all	Very little	Some	Quite a bit	A lot	
a. District assessments	Ø	®	Ô	O	Ē	VH494370
b. State assessments	Ø	®	O	O	Ē	VH494371
c. School assessments (e.g., quizzes or tests created by teachers)	Ø	®	Ø	Ø	Ē	VH494373

VH494346

5. Does your school offer any of the following services for eighth-grade students who fall behind or need extra help in social studies (e.g., civics and/or United States government, geography, or United States history)? Select **one** circle in each row.

	Yes	No	
a. Tutoring	Ø	®	VH494347
b. Placement of instructional aides in classrooms to provide assistance	۲	®	VH494348
c. Use of instructional aides for pull-out instruction	۵	®	VH494349
d. Extra work or homework	Ø	®	VH494350
e. Before- or after-school programs	Ø	®	VH494351
f. Summer school programs	Ø	®	VH494353
g. Extra help for English-language learners	æ	®	VH494354

6. Does your school offer any of the following school-sponsored activities to eighth-grade students? Select **one** circle in each row.

	Yes	No	
a. Student government	۵	®	VH495722
b. Classes with a community service component	۵	®	VH495723
c. Clubs with a community service component	۵	®	VH495724
d. Special courses or workshops to improve skills with computers or other digital devices	۵	(6)	VH495725

Appendix I-3q: 2018 Operational Grade 8 TEL

The 2018 Operational Grade 8 TEL items are the same as those submitted in Appendix F-3y

The following questions are about your school's characteristics and policies related to technology and engineering.

Technology refers to all the things people make and do to their natural environment in order to get the things they want and need.

Engineering refers to using skills or knowledge to solve problems that meet people's wants and needs.

Throughout the questionnaire, unless otherwise specified, please consider and include technology and engineering topics and instruction that occur in technology- or engineering-specific courses as well as other courses (for example, science, geography, art).

		None: Not included in the curriculum	Under 10%	10–25%	26–50%	51–75%	Over 75%	
a.	How objects are designed to solve problems or meet people's needs	Ø	B	O	Ø	Θ	Ð	VE638386
b.	The interactions among technology, society, and the environment	6	ß	O	Ø	Θ	Ð	VE638388
c.	The role of technology systems (for example, energy usage, healthcare, communications)	Θ	®	O	Ø	Θ	©	VE638389
d.	How computers, the Internet, and other digital technologies affect society	Ø	®	O	Ø	©	©	VE638390
e.	Careers in technical fields (for example, engineer, medical technician, computer programmer)	Ø	6	©	Ø	Θ	¢	VE638392
f.	Concepts related to specific technologies (for example, electronics, biotechnology, agriculture)	Ø	®	©	Ø	¢	¢	VE638395

1. In your school, prior to or in eighth grade, what percentage of eighth-grade students receive instruction in each of the following topics? Select **one** circle in each row.

VE638378

		Required	Elective	After school	Not offered	
a.	Technology and Society (the effects that technology has on society or the natural world; or, the ethical questions that arise from those effects)	0	0	O	Ø	VE638435
b.	Design and Systems (the nature of technology, the engineering design process by which technologies are developed, or basic approaches to dealing with everyday technologies, including maintenance or troubleshooting)	9	(9)	O	Ø	VE638438
c.	Information and Communication Technology (for example, computers; software learning tools; networking systems and protocols; handheld digital devices; other technologies for accessing, creating, or communicating information for facilitating creative expression)	0	®	C	Ø	VE638442

2. Prior to or in eighth grade, how are each of the following areas addressed in your school's curriculum? Select **all** squares that apply.

VE638446

VE638432

3. Prior to or in eighth grade, does your school require any technology or engineering instruction to students?

- O Yes \rightarrow Continue to Question 4.
- (b) No \rightarrow Skip to Question 5.

VE638450

		Not at all	Small extent	Moderate extent	Large extent	
a.	State curriculum standards or frameworks	Ø	®	0	Ø	VE638453
b.	District curriculum standards or curriculum guides	0	®	Ø	Ø	VE638456
c.	Results from state/district assessments	Ø	ß	0	Ø	VE638457
d.	Results from school assessments	A	B	0	0	VE638462
e.	In-school curriculum frameworks or standards for learning	0	₿	Q	Ø	VE638459
f.	Recommendations from your teachers or content specialists	8	®	O	Ø	VE638464
g.	Commercially designed programs	A	®	O	D	VE638470
h.	Textbooks (including digital forms, such as online textbooks)	Ø	®	Ø	Ø	VF821977
i.	Other (specify):	A	®	O	D	VE638467

4. To what extent is your school's technology or engineering instruction based on the following? Select **one** circle in each row.

VE638334

- 5. Prior to or in eighth grade, does your school offer any courses or afterschool programs that cover technology or engineering concepts?
 - O Yes \rightarrow Continue to Question 6.
 - B No \rightarrow Skip to Question 8.

6. In the rows below, please identify the most relevant courses that cover technology or engineering concepts (up to five) that your school offers to students prior to or in eighth grade.

a. Course 1:
b. Course 2:
c. Course 3:
d. Course 4:
e. Course 5:

VE638483

7. In an average school year, how often is the typical eighth-grade student at your school assessed in what he or she knows about technology or engineering using the following methods? Select **one** circle in each row.

	Never	Once or twice a year	Once or twice a quarter	Once or twice a month	Once a week or more	I don't know.	
a. Standardized or performance tests	Ø	ß	O	0	Ē	Ð	VE638486
b. Teacher-developed tests and quizzes	${}^{\bigcirc}$	₿	O	0	Ē	Ð	VE638487
c. Student assignments, projects, or homework	9	₿	Ø	Θ	Ē	Ē	VE638490

VE681573

8. The goal of the following set of questions is to gather information about the student-computer ratio for eighth-grade students at your school.

	Number	
a. At your school, what is the total number of students in the eighth grade?		VE638480
b. Approximately how many computers in the school are available to eighth-grade students for educational purposes?		VE638484
c. Approximately how many of these computers are connected to the Internet?		VE638485
d. Approximately how many of all computers are eighth-grade students allowed to take home with them (for example, laptops or tablets)?		VE675583

If you answered question 8d with a number greater than 0, *continue to Question 9*.

If you answered question 8d with 0, *skip to Question 10*.

- 9. Does your school provide computers that students are allowed to take home with them?
 - Tes, and students are allowed to keep their computer after the school year ends.
 - S Yes, but students must return their computer (for example, at the end of the week or end of the school year).
 - © No

VE638517

10. In your school, prior to or in eighth grade, what percentage of eighth-grade students has taken advantage of the following school-sponsored resources during or after school? Select **one** circle in each row.

		School does not provide this resource to students.	0–5%	6–20%	21–50%	Over 50%	
a.	Clubs, competitions, exhibits, etc., related to some aspect of technology and engineering	0	®	0	Φ	Ē	VE638518
b.	Technology resources such as robotics or digital photography	Ø	ß	Ø	Ø	Ē	VE638519
C.	Workshop for industrial technologies (for example, auto mechanics, machining, metalworking, construction, carpentry)	0	℗	Θ	Φ	¢	VE638520
d.	Workshop or laboratory for drafting or design tools (for example, computer-aided design [CAD], systems analysis)	0	₿	Q	Ø	Ē	VE638521
e.	Online courses in any subject	Ø	B	0	Ø	Ē	VE638522

11.	This year in your school, are the following resources available to teachers for teaching or
	professional development? Select one circle in each row.

		Yes	No	
a.	Financial support for professional development related to technology and engineering	Ø	®	VE638440
b.	Financial support for association memberships related to technology and engineering	0	0	VE638441
c.	Financial support for university or online courses related to technology and engineering	0	®	VE638443
d.	Technology resources such as robotics or digital photography	0	ß	VE638445
e.	Workshop for industrial technologies (for example, auto mechanics, machining, metalworking, construction, carpentry)	0	®	VE638449
f.	Workshop or laboratory for drafting or design tools (for example, computer-aided design [CAD], systems analysis)	0	®	VE638452
g.	Supplies or equipment for technology demonstrations	0	ß	VE638454
h.	Textbooks or digital tutorials related to technology or engineering	Ø	®	VE675624

VE675659

	Not available	Available for some teachers	Available for all teachers	
a. Recording video	۵	®	©	VE677568
b. Taking digital images	A	®	©	VE677569
c. Converting non-digital images or content (for example, scanner)	۵	®	©	VE677570
d. Projecting digital images	Ø	®	©	VE677571
e. Projecting interactive data (for example, interactive whiteboard that responds to user control via stylus, finger, or other device)	Ø	®	©	VE677572
f. Collecting data (for example, tools such as sensors or probes that detect or collect information such as motion, pH, temperature, light)	-	®	©	VE677573
g. Mobile computing (for example, handheld or portable computer devices)	۵	®	C	VE677574

12. Does your school have equipment available for instruction with the following capabilities? Select **one** circle in each row.

		Not at all	Small extent	Moderate extent	Large extent	
tr	ack of qualified teachers ained in technological or ngineering content	0	®	Ø	Ø	VE638524
	ack of technical support ersonnel	A	®	O	Ø	VE638525
in ex	ack or inadequacy of astructional materials (for xample, textbooks, omputers, software)	0	®	Q	Ø	VE638526
	ack or inadequacy of aternet connectivity	Ø	®	O	Ø	VE638528
la	ack or inadequacy of boratory or workshop quipment	0	®	Ø	Ø	VE638529
	ack or inadequacy of 1dio-visual resources	Ø	®	O	Ø	VE638533
de de	ack of curriculum evelopment expertise or andards specificity	0	®	Q	Ø	VE638534
de	ack of time because of emands for other urriculum content	8	®	O	Ø	VE638535

13. To what extent is your school's capability to provide instruction in technology or engineering concepts hindered by any of the following? Select **one** circle in each row.

VE638523

VE638496

		Not applicable	0%	1–25%	26–50%	51–75%	Over 75%	I don't know.	
a.	Content, curriculum, or pedagogy related to engineering design	Ø	ß	Θ	Ø	Θ	Θ	G	VE638497
b.	Content, curriculum, or pedagogy related to technology or technological literacy	Θ	ß	0	Φ	Θ	Θ	G	VE638498
c.	Integrating information and communications technology into instruction	(6)	B	Q	Ø	Ē	Ē	G	VE638504

14. In the past two years, what percentage of teachers in your school has participated in professional development in any of the following? Select **one** circle in each row.

VE638333

15. In your school, prior to or in eighth grade, how much emphasis is placed on teaching students the following? Select **one** circle in each row.

	None	A little	Some	A lot	I don't know.	
a. Inventions that change the way people live	Ø	B	0	Ø	Ē	VE638336
b. Choices people make that affect the environment	(9	ß	Ø	0	Ē	VE638338
c. Conditions that influence the use or availability of machines or devices	0	ഀ	Ø	Θ	¢	VE638340
d. The ways people work together to solve problems in their community or the world	0	®	Ø	Ø	Ē	VE677585

	Not at all	Small extent	Moderate extent	Large extent	I don't know.	
Describe how inventions change society	(9	ß	Ø	Ø	Ē	VE638354
Compare how different activities affect the environment	(9	ഀ	0	0	Ē	VE638355
Explain why people have different tools, machines, or devices in different parts of the world	9	Θ	0	θ	Θ	VE638356

16. In your school, prior to or in eighth grade, to what extent do students do the following activities? Select **one** circle in each row.

VE638372

17. In your school, prior to or in eighth grade, how much emphasis is placed on teaching students the following? Select **one** circle in each row.

		None	A little	Some	A lot	I don't know.	
a.	The use and purpose of tools, machines, or devices	0	®	Ø	Θ	Ē	VE638375
b.	The care or maintenance of tools, machines, or devices	Ø	ß	Ø	0	Ē	VE638376
c.	Designing or creating something to solve a problem	Ø	ß	Ø	0	Ē	VE638377
d.	Designing something when there is limited time, money, or materials	0	®	Ø	Θ	Ē	VE639184
e.	Figuring out how to fix something	A	®	O	Ø	Ē	VE677599
f.	Finding the right people to work with or get help from to fix something	0	®	Ø	Φ	¢	VE677600

VE638350

VE638380

		Not at all	Small extent	Moderate extent	Large extent	I don't know.	
a.	Use tools and materials to fix something	Ø	⊜	Ø	Ø	Ē	VE677603
b.	Use different tools, materials, or machines to see which are best for a given purpose	Ø	®	©	Ø	Ē	VE638383
c.	Build or test a model to see if it solves a problem	(9)	6	Ø	Ø	Ē	VE638384
d.	Figure out why something is not working in order to fix it	Ø	®	©	0	Ē	VE677604
e.	Take something apart in order to fix it or see how it works	8	®	©	Ø	Ē	VE638385
f.	Design a computer program	A	ഀ	O	0	Ē	VE677605
g.	Examine how parts, processes, or people work together in a system	Ø	®	©	Ø	Ē	VE677606

18. In your school, prior to or in eighth grade, to what extent do students do the following activities? Select **one** circle in each row.

	None	A little	Some	A lot	I don't know.	
a. How to judge reliability of sources	Ø	®	0	Ø	Θ	VE638396
b. How to credit others for their ideas	Ø	®	0	Ø	Ē	VE638399
c. How to collaborate or share information with others	Ø	ß	0	0	Ē	VE677607
d. How to consult with experts to get help	Ø	®	0	Ø	Ē	VE677609
e. How to find information or data to solve a problem	Ø	®	Ø	Θ	Ē	VF239167
f. Run simulations (a learning activity that imitates real life)	Ø	®	Ø	0	Ē	VE677608

19. In your school, prior to or in eighth grade, how much emphasis is placed on teaching students the following? Select **one** circle in each row.

20. In your school, prior to or in eighth grade, to what extent do students do the following activities? Select **one** circle in each row.

		Not at all	Small extent	Moderate extent	Large extent	I don't know.	
a.	Use digital tools to gather and display information in order to test a hypothesis	0	ഀ	Ø	Ø	©	VE638433
b.	Select and use appropriate digital technologies to create a presentation	0	ഀ	Ø	Θ	¢	VE638434
c.	Use a computer or other digital technology to simulate a system and explain different outcomes	0	ഀ	Ø	Ø	©	VE638428
d.	Give feedback to others when working together	Ø	₿	Ø	Ø	Ē	VE638420

VE638410

Appendix I-3r: Summary of Revisions Grades 4, 8, and 12 Giving Back

	Grades 4, 8, and 12 Giving Back School Items will be used at all grades unless otherwise specified.					
Previous item	2018 item	D/A/ R/NC+	Rationale			
 1. Would you like to receive information about how other school administrators in the nation responded to this questionnaire? ② Yes ③ No (2017 Operational Grades 4, 8, 12 Giving Back-School) 	 1. Would you like access to an interactive website that shows how others in the nation responded to a similar NAEP questionnaire? © Yes © No Issue: n/a 	R	The national- only assessments in 2018 do not lend themselves to the development of the Giving Back tool. However, school administrators will be given access to the 2017 tool; the language in the			
 If yes, please provide your email address so that we may send access to the website when it is available in May. (2017 Operational Grades 4, 8, 12 Giving Back-School) 	 2. If yes, please provide your email address so that we may send access to the website. Issue: n/a 	R	item was revised accordingly. The national- only assessments in 2018 do not lend themselves to the development of the Giving Back tool. However, schoo administrators will be given access to the			

Grades 4, 8, and 12 Giving Back School Items will be used at all grades unless otherwise specified.						
Previous item	2018 item	D/A/ R R/NC+	Rationale			
		it r	anguage in the tem was evised Iccordingly.			

⁺ This column indicates whether the item was dropped (D), added (A), revised (R), or there was no change (NC).

Appendix I-3s: 2018 Operational Grade 4, 8, and 12 Giving Back Items

- **1.** Would you like access to an interactive website that shows how others in the nation responded to a similar NAEP questionnaire?
 - (A) Yes
 - B No
- **2.** If yes, please provide your email address so that we may send access to the website.

Appendix I-3t: Summary of Revisions 2017-2018 NTPS Principal Questionnaire

*Note: This is the same table submitted to OMB by NTPS for their clearance under OMB #1850-0598 v.19

List of Updates to NTPS 2017-18 Questionnaires from March 2017 version to FINAL.

Questionnaire	Item	Update
NTPS-2A	Front Cover	Endorsers were added;
(Principal)		[Old]: "(ESRA, 20 U.S.C. § 9543)."
· · ·		[New]: "(ESRA 2002, 20 U.S.C. §9543)."
	Item 1-11	[Old]: "2015-16"
		[New]: "2017-18"
	Item 3-1	[Old]: "for"
		[New]: "toward"
	Item 3-2	[Old]: "policies)"
		[New]: "policies.)"
	Items 4-2a, 4-2c, 4-3a, 4-3c	Added: '(apple icon) If none, please mark (X) the box.
	Item 4-4	[Old]: "teamwide, gradewide, or schoolwide?"
		[New]: "gradewide, teamwide, schoolwide, or districtwide?"'
	Item 4-5	"Students DISTRICTWIDE" added to response option
	Item 4-6;	Changed text to: 'Mark (X) one box on each line.'
	Item 6-1a	Added "During the" to beginning of question stem
	Item 6-1b	Added "During the" to beginning of question stem
		[Old]: "year,"
		[New]: "year (2016-17),"
	Item 6-2	Changed text to: 'Mark (X) one box on each line.'
		[Old]: "in"
		[New]: "on"
	Item 7-1	[Old]: "this"
		[New]: "THIS"
	Item 7-2	Changed text to: 'Mark (X) one box on each line.'
		[Old]: "in"
		[New]: "on"
	Item 7-4d	[Old]: "(e.g,"
		[New]: "(e.g.,"
		[Old]: "internet)"
		[New]: "Internet)"
	Item 8-1	Changed text to: 'Mark (X) one box on each line.'
		[Old]: "in"
		[New]: "on"

Appendix I-3u: 2017-2018 NTPS Principal Questionnaire

Conducted by: U.S. DEPARTMENT OF EDUCATION NATIONAL CENTER FOR EDUCATION STATISTICS OMB No. 1850-0598 Approval Expires 06/30/2020 Collected by: U.S. DEPARTMENT OF COMMERCE Economics and Statistics Administration U.S. CENSUS BUREAU

PRINCIPAL QUESTIONNAIRE NATIONAL TEACHER AND PRINCIPAL SURVEY 2017-18 SCHOOL YEAR



(Please correct any errors in name, address, and ZIP Code.)

THIS SURVEY HAS BEEN ENDORSED BY:

American Association of School Administrators American Association of School Librarians American Federation of Teachers American Montessori Society American School Counselors Association Association for Middle Level Education (formerly National Middle School Association) Association for Supervision and Curriculum Development Association of American Educators Council of Chief State School Officers Council of the Great City Schools National Association of Elementary School Principals National Parent Teacher Association

Please return your completed questionnaire in the pre-addressed, postage-paid envelope or mail it to:

U.S. CENSUS BUREAU ATTN: DCB/PCSPU, BUILDING 60A 1201 E. 10TH STREET JEFFERSONVILLE, IN 47132-0001



The National Center for Education Statistics (NCES), within the U.S. Department of Education, is authorized to conduct this survey by the Education Sciences Reform Act of 2002 (ESRA 2002, 20 U.S.C. §9543).

FORM **NTPS-2A** (07-05-2017)



- What is the average student-teacher ratio in the United States?
- What is the average salary of a beginning principal?
- Have teachers' views of their autonomy in the classroom changed over time?
- Have the characteristics of the principal and teacher workforces in the United States changed over time?

The answers to these questions help school districts and policy makers at the state, federal, and local levels set education policy and improve teacher and principal working conditions.

Since 1988, the National Teacher and Principal Survey and its precursor, the Schools and Staffing Survey, have provided the answers to these and other important education questions from the perspective of Principals and Teachers.

By selecting a statistically representative sample of schools, and teachers in those schools, we are able to provide representative data for the United States without going to every school.

Your school has been selected to participate in the 2017-18 National Teacher and Principal Survey. You will represent thousands of other principals, so it is important that you respond to this survey.

All of the information you provide may be used only for statistical purposes and may not be disclosed, or used, in identifiable form for any other purpose except as required by law (20 U.S.C. §9573 and 6 U.S.C. §151).

More information can be found on our website: http://nces.ed.gov/surveys/ntps

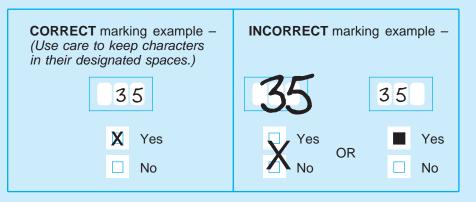
Paperwork Burden Statement

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this voluntary information collection is 1850-0598. The time required to complete this information collection is estimated to average 25 minutes per response, including the time to review instructions, search existing data resources, gather the data needed, and complete and review the information collection. If you have any comments concerning the accuracy of the time estimate, suggestions for improving this collection, or comments or concerns about the contents or the status of your individual submission of this questionnaire, please e-mail: ntps@census.gov, or write directly to: National Teacher and Principal Survey (NTPS), National Center for Education Statistics, Potomac Center Plaza, 550 12th Street, SW, Room 4014, Washington, DC 20202.



INSTRUCTIONS

The data you enter on this form will be captured through the use of imaging technology. Please print all information clearly in ordinary characters, using a **blue or black ballpoint pen**.



- **a.** It is important that this questionnaire be completed by the school PRINCIPAL, not by anyone else.
- **b.** Please do not write any comments by the answer boxes.
- **c.** If you are unsure about how to answer a question, please give the best answer you can rather than leaving it blank.
- **d.** If you have any questions, call the U.S. Census Bureau at 1-888-595-1338. Someone will be available to take your call Monday through Friday, between 8:00 a.m. and 8:00 p.m. (Eastern Time). The U.S. Census Bureau is also available to answer your questions via e-mail at: ntps@census.gov.

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1. PR	NCIPAL EXPERIENCE AND TRAINING
1-1.	 BEFORE you became a principal, how many years of elementary, middle, or secondary teaching experience did you have? Count part of a year as 1 year. If none, please mark (X) the box. None or Year(s) of teaching before becoming a principal
1-2.	 BEFORE you became a principal, did you hold the position of an assistant principal or program director? ● Include temporary positions. ○ Yes No
1-3.	BEFORE you became a principal, did you have any management experience outside of the field of education? Yes No
1-4.	BEFORE you became a principal, did you participate in any district or school training or development program for ASPIRING school principals? Yes No
1-5.	 PRIOR to this school year, how many years did you serve as the principal of THIS OR ANY OTHER school? Do NOT include any years you served as ASSISTANT principal. Count part of a year as 1 year. If none, please mark (X) the box.
1-6.	 PRIOR to this school year, how many years did you serve as the principal of THIS school? Do NOT include any years you served as ASSISTANT principal. Count part of a year as 1 year. If none, please mark (X) the box. None or Year(s) as principal of this school
	FORM NTPS-2A

1-7.	What is the highest degree you have earned? Mark (X) only one box.
	Associate's degree
	Bachelor's degree (B.A., B.S., etc.)
	Master's degree (M.A., M.A.T., M.B.A., M.Ed., M.S., etc.)
	Educational specialist or professional diploma (at least one year beyond master's level)
	Doctorate or first professional degree (Ph.D., Ed.D., M.D., L.L.B., J.D., D.D.S.)
	Do not have a degree \rightarrow GO TO item 1-9 below.
1-8.	Which of the following best describes the highest degree you have earned? Mark (X) only one box.
	It was awarded by your school's college of Education, school of Education, or department of Education
	It was awarded by another college, school, or department, not in Education
1-9.	Do you currently hold a license or certification in "school administration"?
	Yes
	No
1-10.	 WHILE serving as a principal, have you also regularly taught one or more classes at the elementary, middle, or secondary level?
♥ 1-11.	While serving as a principal, how many YEARS did you regularly teach at the elementary,
	 middle, or secondary level? Count part of a year as 1 year. Include the 2017-18 school year in this count, if applicable. If none, please mark (X) the box.
	□ None \rightarrow GO TO Section 2 on page 6.
Ļ	YEAR(S) of teaching since becoming a principal
1-12.	In addition to serving as principal, are you CURRENTLY teaching in THIS school?
	Yes
	No



2. GOALS AND DECISION MAKING

2-1. We are interested in the importance you place on various educational goals. From the following ten goals, which do you consider the most important, the second most important, and the third most important?

- 1 Building basic literacy skills (reading, math, writing, speaking)
- 2 Encouraging academic excellence
- 3 Preparing students for postsecondary education
- 4 Promoting occupational or vocational skills
- 5 Promoting good work habits and self-discipline
- 6 Promoting personal growth (self-esteem, self-knowledge, etc.)7 Promoting human relations skills
- 8 Promoting specific moral values
- 9 Promoting multicultural awareness or understanding
- 10 Fostering religious or spiritual development



Third most important

2-2. How much ACTUAL influence do you think you have as a principal on decisions concerning the following activities?

		Mark (X) one box on each line.						
		No influence	Minor influence	Moderate influence	Major influence	Not applicable		
a.	Setting performance standards for students of this school							
b.	Establishing curriculum at this school							
c.	Determining the content of in-service professional development programs for teachers of this school							
d.	Evaluating teachers of this school							
e.	Hiring new full-time teachers of this school							
f.	Setting discipline policy at this school							
g.	Deciding how your school budget will be spent							



3. SCHOOL CLIMATE AND SAFETY

3-1. To the best of your knowledge, how often do the following types of problems occur at this school?

		Mark (X) one box on each line.					
		Happens daily	Happens at least once a week	Happens at least once a month	Happens on occasion	Never happens	
a.	Physical conflicts among students						
b.	Robbery or theft						
c.	Vandalism						
d.	Student use of alcohol						
e.	Student use of illegal drugs						
f.	Student possession of weapons						
g.	Physical abuse of teachers						
h.	Student racial tensions						
i.	Student bullying						
j.	Student verbal abuse of teachers						
k.	Widespread disorder in classrooms						
I.	Student acts of disrespect toward teachers						
m.	Gang activities						

3-2. LAST school year (2016-17), what percentage of students had at least one parent or guardian participating in the following events?

				🍎 Mark (X)	Mark (X) one box on each line.				
			0-25%	26-50%	51-75%	76-100%	Not applicable		
	a.	Open house or back-to-school night							
	b.	All regularly scheduled schoolwide parent-teacher conferences							
	C.	Special subject-area events (e.g., science fair, concerts)							
	d.	Parent education workshops or courses							
	e.	Signing of a school-parent compact (A <u>school-parent compact</u> is an agreement between school community members [e.g., parents, principals, teachers, and students] that acknowledges the shared responsibility for student learning and/or the school's policies.)							
	f.	Volunteer in the school as needed or on a regular basis							
	g.	Involvement in school instructional issues (e.g., planning classroom learning activities, providing feedback on curriculum)							
	h.	Involvement in governance (e.g., PTA or PTO meetings, school board, parent booster clubs)							
	i.	Involvement in budget decisions							
3-3.	 Are teachers at this school REQUIRED to do the following? a. Help students with academic needs OUTSIDE of regular school hours Yes No b. Help students with social and emotional needs OUTSIDE of regular school hours 								
		YesNo							
3-4.	Are BEGINNING teachers at this school enrolled in a formal schoolwide or districtwide program aimed to enhance teachers' effectiveness by providing systematic support (sometimes called a teacher induction program)?				le				
	(A	beginning teacher refers to a teacher who i	s in the first	t or second	year of tea	ching.)			
		Yes							
		No							
							642		

4. TEA	CHE	ER EVALUATION
	teach a. C	ng the LAST school year (2016-17), which of the following sources of information on her performance did THIS school use in teacher evaluations? Classroom observations using a teacher professional practice rubric, conducted by the rincipal or other school administrator
	[Yes No
		assessments by the principal or other school administrator that are NOT based on a eacher professional practice rubric
	[Yes No
	c. V	ideotaped classroom observation
	[Yes No
	d. A p	assessments by a peer or mentor teacher that are NOT based on a teacher professional ractice rubric
	[Yes No
	e. T	eacher self-assessment
	[Yes
	[No
	f. A	mount or content of professional development completed by the teacher
	[Yes
	_	No
	g. A	artifacts of teacher professional practice or portfolios
	l	Yes No
	_	
	h. S	Student surveys or other student feedback
	ſ	Yes No
	L	



4-1.		ontinued – During the LAST school year (2016-17), which of the following sources of formation on teacher performance did THIS school use in teacher evaluations? Parent surveys or other parent feedback				
		 Yes No 				
	j.	Teacher professional credentials including experience, education, and certification				
		No				
4-2.	a.	 For a TENURED or EXPERIENCED teacher, on average, how many FORMAL observations were conducted during the LAST school year (2016-17) to evaluate performance? (A formal observation is one that is required by the school, district, or state in order to collect information for a performance evaluation.) If none, please mark (X) the box. 				
		None or Number of observations GO TO item 4-2c below.				
	b.	For a TENURED or EXPERIENCED teacher, on average, how long is the typical FORMAL observation? Average number of minutes				
	C.	For a TENURED or EXPERIENCED teacher, on average, how many INFORMAL observations were conducted during the LAST school year (2016-17)?				
		None or Number of observations GO TO item 4-2e on page 11.				
	d.	For a TENURED or EXPERIENCED teacher, on average, how long is the typical INFORMAL observation?				
		Average number of minutes				
		FORM NTPS-2A				

4-2.	Continued –	
	On average, how often do TENURED or EXPERIENCED to evaluation?	eachers receive a summative
	(A <u>summative evaluation</u> is a SUMMATIVE judgment about p administrative purposes and becomes a part of the record of	
	Mark (X) only one box.	
	Two or more times a year	
	Once a year	
	Once every 2 years	
	Once every 3 or more years	
	No evaluations are conducted	
4-3.	For a NON-TENURED or INEXPERIENCED teacher, on av observations were conducted during the LAST school ye performance?	
	(A <u>formal observation</u> is one that is required by the school, a information for a performance evaluation.)	listrict, or state in order to collect
	• If none, please mark (X) the box.	
	None or Number of observations	
	GO TO item 4-3c below.	
	For a NON-TENURED or INEXPERIENCED teacher, on av	araga haw long is the typical
	FORMAL observation?	erage, now long is the typical
	Average number of minutes	
	 For a NON-TENURED or INEXPERIENCED teacher, on av observations were conducted during the LAST school year 	erage, how many INFORMAL ear (2016-17)?
	• If none, please mark (X) the box.	
	None or Number of observations	
	GO TO item 4-3e on page 12.	
	For a NON-TENURED or INEXPERIENCED teacher, on av INFORMAL observation?	erage, how long is the typical
	Average number of minutes	
	Average number of minutes	



4-3.	Continued –					
	e. On average, how often do NON-TENURED or INEXPERIENCED teachers receive a summative evaluation?					
	(A <u>summative evaluation</u> is a SUMMATIVE judgment about performance that is used for some administrative purposes and becomes a part of the record of a teacher's performance.)					
	🍎 Mark (X) only one box.					
	Two or more times a year					
	Once a year					
	Once every 2 years					
	Once every 3 or more years					
	No evaluations are conducted					
4-4.	During THIS school year (2017-18), is student achievement growth on standardized assessments or student learning objectives used in the performance evaluation of teachers in this school, whether it be within a classroom, gradewide, teamwide, schoolwide, or districtwide?					
	(<u>Student achievement growth</u> is the change in individual student achievement between two or more points in time.)					
	(<u>Standardized assessments</u> are assessments consistently administered and scored districtwide or statewide for all students in the same grades and subjects.)					
	(<u>Student learning objectives (SLOs)</u> are measurable learning goals or objectives established for students, which can be used to measure student growth over a set period of time.)					
	🍎 Mark (X) only one box.					
	Student achievement growth on standardized assessments or student learning objectives is used in the evaluation of:					
	ALL teachers in this school, including all grades, all subjects, special education, and special populations					
	MOST teachers in this school					
	SOME teachers in this school					
	□ NO teachers in this school \rightarrow GO TO item 4-6 on page 13.					
4-5.	The teachers in this school are evaluated on the achievement growth of:					
	Mark (X) all that apply.					
	Students they teach DIRECTLY					
	Students GRADEWIDE					
	Students TEAMWIDE					
	Students SCHOOLWIDE					
	Students DISTRICTWIDE					

4-6.	During THIS school year (2017-18), to what extent will teachers' performance evaluation results be used to inform the following decisions about teacher professional development?						
				Mark (X) one box on each line.			
			Not at al	I Somewhat	A lot		
	a.	Plan professional development for individual teachers					
	b.	Identify low-performing teachers for coaching, mentoring, or peer assistance					
	c.	Develop performance improvement plans for low-performing teachers					
	d.	Set goals with teachers for student achievement growth for the next school year					
4-7.	inf	ring THIS school year (2017-18), will teacher performance orm any of the following decisions about teachers in THIS	evaluation school?	n results be us	sed to		
	а.	Formally recognizing high-performing teachers					
		□ Yes					
		No					
	b.	Determining annual salary increases					
		☐ Yes					
		No					
	c.	Determining bonuses or performance-based compensation	on other t	nan salary inc	reases		
		Yes					
		No					
	d.	Determining teaching assignments					
		☐ Yes					
		□ No					
	e.	Offering career advancement opportunities, such as tead	her leade	ship roles			
		☐ Yes					
		No					
	f.	Granting job protection or tenure					
		□ Yes					
		No					



4-8.	Du info	ring THIS school year (2017-18), will teacher performance evaluation results be used to orm any of the following decisions about LOW-PERFORMING teachers in THIS school?
		Losing job protection or tenure
		Yes
		No
	b.	Prioritizing teachers for layoffs
		Yes
		□ No
	с.	Determining teacher reassignment
		□ Yes
		No
	d.	Counseling a teacher out of the school, district, or profession due to poor performance
		□ Yes
		No
	e.	Not renewing teacher contract or terminating employment for cause
		□ Yes
		No



5. TEACHER PROFESSIONAL DEVELOPMENT

5-1. To what extent do you agree or disagree with the following statements about professional development for TEACHERS in this school?

		🍎 Mark (X) one box on each line.					
		Strongly Disagree	Somewhat Disagree	Somewhat Agree	Strongly Agree		
a.	An appropriate amount of time is provided for professional development						
b.	Sufficient resources are available for professional development in this school						
C.	Professional development offerings are based on best practices						
d.	Professional development opportunities are aligned with the school's improvement plan						
e.	Professional development is directly applicable to the content or curriculum being taught						
f.	Professional development provides ongoing opportunities for teachers to refine instructional strategies						
g.	Professional development enhances teachers' abilities to improve student learning						

5-2. In the past 12 months, professional development was available to TEACHERS at THIS school:

Mark (X) all that apply.

	Before	or	after	school	days
--	--------	----	-------	--------	------

During in-service days (teacher planning or work days) when students are NOT in school

- During regular school days when students are in school
- During summer and other extended school breaks



5-3.	a.	How often is teachers' input taken into consideration when planning professional development at THIS school?
		🍎 Mark (X) only one box.
		Never
		Sometimes
		□ Always
	b.	How often is professional development for teachers at THIS school led by teachers in this SCHOOL or DISTRICT?
		Never
		Sometimes
		Always
	c.	How often is professional development for teachers at THIS school evaluated for evidence of improvement in SCHOOLWIDE or DISTRICTWIDE achievement?
		🍎 Mark (X) only one box.
		Never
		Sometimes
		Always



6. PR	6. PRINCIPAL EVALUATIONS							
6-1a.	During the L - □ Yes □ No →		nool year (2016-17), were you evaluated as a principal at THIS school? ing the LAST school year (2016-17), why were you not evaluated at					
			S school? Mark (X) only one box.					
			I was not a principal at this school last year.					
			This district does not conduct principal evaluations.					
			This district does not conduct principal evaluations on a yearly basis.					
			I was not evaluated because I am a tenured or experienced principal.					
			I was not evaluated for another reason.					
			GO TO item 6-4 on page 18.					
+								
6-2.			ou agree or disagree with the following statements about THIS school's _AST school year (2016-17)?					
			Mark (X) and box on each line					

		Mark (X) one box on each line.						
		Strongly Disagree	Somewhat Disagree	Somewhat Agree	Strongly Agree			
a.	The evaluator(s) accurately evaluated my strengths and weaknesses as a principal.							
b.	My evaluator(s) was fair and unbiased.							
C.	Overall, the evaluation process was fair.							
d.	I had a strong understanding of how I would be evaluated at this school.							
e.	I had a clearer idea of what was expected of me because of the evaluation process.							
f.	The evaluation rubric accurately represents the scope of my responsibilities as a principal.							

6-3.	a. Thinking about your evaluation LAST school year (201 on your work as a principal?	6-17), did you receive any feedback
	┌ □ Yes	
	■ No → GO TO item 6-4 below.	
	b. Thinking about your evaluation LAST school year (201 you received to try to improve YOUR performance?	6-17), have you used the feedback
	☐ Yes	
	No	
	c. Thinking about your evaluation LAST school year (201 the processes or procedures you used to achieve THIS	6-17), did you receive feedback on S SCHOOL'S performance goals?
	□ Yes	
	No	
6-4.	During THIS school year (2017-18), is student achievement assessments used in your performance evaluation? (Student achievement growth is the change in individual stude	
	points in time.)	
	(<u>Standardized assessments</u> are assessments consistently adm statewide for all students in the same grades and subjects.)	inistered and scored districtwide or
	☐ Yes	
	No	

7. PRINCIPAL PROFESSIONAL DEVELOPMENT								
7-1.	During the LAST school year (2016-17), did you participate in any professional development activities as a principal at THIS school?							
	- 🗌 Yes							
□ No \rightarrow GO TO Section 8 on page 22.								
↓ 7-2.		often were the re						
/- <u>Z</u> .	During the LAST school year (2016-17), how activities in which you participated:	often were the pr	oressional	developmen	L			
				<) one box on				
			Never	Sometimes	Always			
	a. Designed to support state or district stand and/or assessments?	dards						
	b. Designed as part of a school improvement meet state, district, or school goals?	t plan to						
7-3.	During the LAST school year (2016-17), was considered as part of your evaluation?	participation in pr	rofessional	developmen	t			
	Yes							
	No							
7-4.	During the LAST school year (2016-17), have professional development?	you participated	in the follo	owing kinds o	of			
	a. University course(s) related to your role	as principal						
	☐ Yes							
	No							
	b. Visits to other schools designed to impro	ove your own wor	k as princi	pal				
	☐ Yes							
	□ No							
	c. Mentoring and/or peer observation and c	paching of princing	oals					
	□ Yes							
	□ No							
					<u> </u>			
	 Participating in a principal network (e.g., systems, by an outside agency, or through 		pals organi	zed within so	cnool			
	□ Yes							
	No							



7-4.	Co kin	<i>ntinued</i> – During the LAST school year (2016-17), have you participated in the following ads of professional development?
	e.	Workshops, conferences, or training in which you were a presenter
		☐ Yes
		No
	f.	Other workshops or conferences in which you were not a presenter
		Yes
		No
7-5.	Du ang	ring the LAST school year (2016-17), did you participate in professional development on y of the following topics?
	a.	Analyzing and interpreting student achievement data
		Yes
		No
	b.	Human resource management
		Yes
		No
	C.	Student motivation and engagement
		Yes
		No
	d.	Use of technology to support instruction
		Yes
		No
	e.	School management and policy
		☐ Yes
		No
	f.	School improvement planning
		Yes
		No
		FORM NTPS-2A

7-5.		ntinued – During the LAST school year (2016-17), did you participate in professional velopment on any of the following topics?
	g.	Social services for students
		Yes
		No
	h.	Safety or school climate
		□ Yes
		No
	i.	Supporting effective instruction
		□ Yes
		No

8. PRINCIPAL ENGAGEMENT

8-1. To what extent do you agree or disagree with the following statements?

	🍎 Λ	🍎 Mark (X) one box on each line.					
	Strongly Disagree	Somewhat Disagree	Somewhat Agree	Strongly Agree			
a. The stress and disappointments involved with being a principal at this school aren't really worth it.							
b. I am generally satisfied with being principal at this school.							
 c. If I could get a higher paying job I'd leave this job as soon as possible. 							
d. I think about transferring to another school.							
e. I don't seem to have as much enthusiasm now as I did when I began this job.							
f. I think about staying home from school because I'm just too tired to go.							



9. PRI	NCIPAL DEMOGRAPHIC INFORMATION
9-1.	Are you male or female? Are you male or female? Are you male Female
9-2.	Are you of Hispanic or Latino origin? Yes No
9-3.	What is your race? Image: Mark (X) one or more races to indicate what you consider yourself to be. Image: White Image: Black or African-American Image: Black or African-American Image: Asian Image: Native Hawaiian or Other Pacific Islander Image: American Indian or Alaska Native
9-4.	What is your year of birth?
9-5.	 What is your current ANNUAL salary for your position in this school before taxes and deductions? If your position includes multiple duties (e.g., you teach a class and serve as principal at this school), please include your entire salary before taxes and deductions. Please report in whole dollars. Image: personal serve as principal at this serve as principal at this school, please include your entire salary before taxes and deductions. Please report in whole dollars. Image: personal serve as principal at this serve as principal at this serve as principal at this school, please report in whole dollars. Image: personal serve as principal serve as principal at this serve as principal at the serve as principal at the serve as principal at this serve as principal at the serve

10. SCHOOL LEADERSHIP AND RESOURCES Your responses to this section of questions will help researchers and policymakers make international comparisons to principals in other countries. 10-1. Please indicate how frequently you engaged in the following activities in this school during the last 12 months. Mark (X) one box on each line. Never or Very Sometimes Often Rarely Often a. I collaborated with teachers to solve classroom discipline problems. b. I observed instruction in the classroom. c. I provided feedback to teachers based on my observations. d. I took actions to support cooperation among \square teachers to develop new teaching practices. e. I took actions to ensure that teachers take responsibility for improving their teaching skills. f. I took action to ensure that teachers feel responsible for their students' learning outcomes. q. I provided parents or quardians with information on the school and student performance. h. I reviewed school administrative procedures and reports. i. I resolved problems with the lesson timetable in this school. j. I collaborated with principals from other schools on challenging work tasks. k. I worked on a professional development \square plan for this school. I. I used student results to develop the school's education goals.

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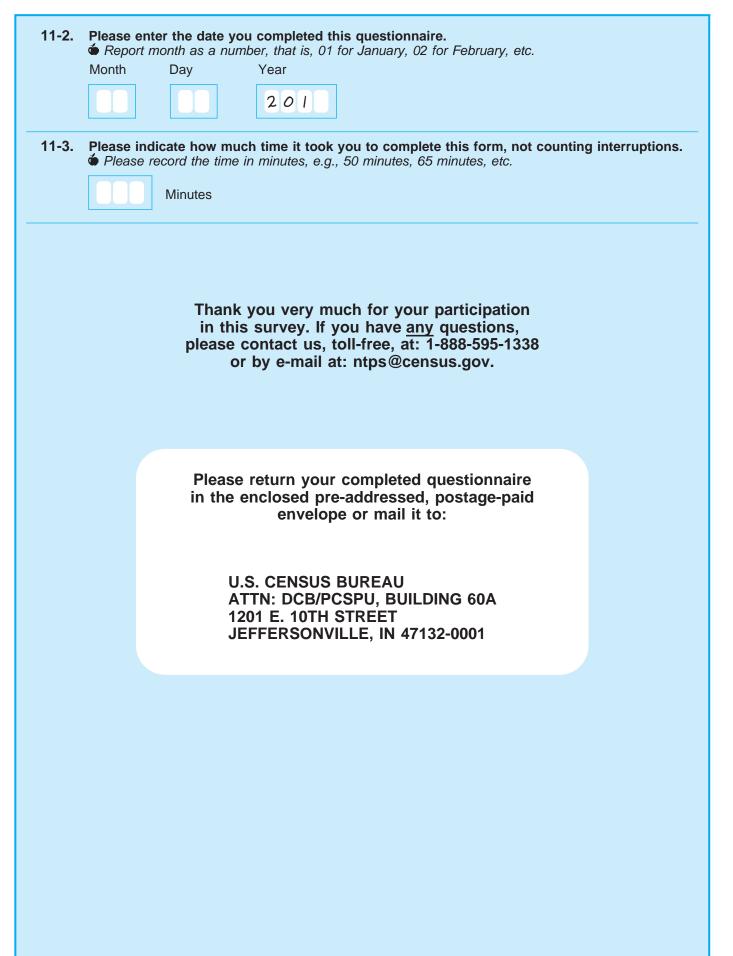
10-2.	. To what extent do the following limit your effectiveness as a principal in this school?							
			🌢 Mark (X) one box on each line.					
			Never or Rarely	Sometimes	Often	Very Often		
	a.	Inadequate school budget and resources						
	b.	Government regulation and policy						
	c.	Teachers' absences						
	d.	Lack of parent or guardian involvement and support						
	e.	Teachers' career-based wage system (A <u>career-based wage system</u> is used when an employee's salary is determined mainly by his or her educational level and age or seniority rather than by his or her performance on the job.)						
	f.	Lack of opportunities and support for my own professional development						
	g.	Lack of opportunities and support for teachers' professional development						
	h.	High workload and level of responsibilities in my job						
	i.	Lack of shared leadership with other school staff members						
	j.	Difficulty to recruit qualified teachers in some subject areas						
	k.	Other, please specify						

10-3.	To what extent is this school's capacity to provide quality instruction currently hindered by
	any of the following issues?

		🍎 Mark (X) one box on each line.			
		Not at all	Very little	To some extent	A lot
	a. Shortage of qualified teachers				
	b. Shortage of teachers with competence in teaching students with special needs				
	c. Shortage of vocational teachers				
	d. Shortage or inadequacy of instructional materials (e.g., textbooks)				
	e. Shortage or inadequacy of digital technology for instruction (e.g., computers, tablets, iPads)				
	f. Insufficient Internet access				
	g. Shortage or inadequacy of digital software for instruction				
	h. Shortage or inadequacy of library materials				
	i. Shortage of support personnel				
	j. Shortage or inadequacy of instructional space (e.g., classrooms)				
	k. Shortage or inadequacy of classroom furniture for students (e.g., desks, chairs, materials storage)				
	I. Shortage or inadequacy of physical infrastructure (e.g., school buildings, heating/cooling, and lighting)				
10-4.	 For how many years do you want to continue to Count part of a year as 1 year. If none, please mark (X) the box. None or Years 	be a princip	al?		
					660

11. CONTACT INFORMATION 11-1. Please PRINT your name, your home address, your work, cell, and home telephone numbers, and your work and home e-mail addresses. This information would only be used in the event that we need to contact you for follow-up. All of the information you provide may be used only for statistical purposes and may not be disclosed, or used, in identifiable form for any other purpose except as required by law (20 U.S.C. §9573 and 6 U.S.C. §151). a. First name Middle name Suffix Last name b. Street address c. City d. State e. ZIP Code f. Work phone number Area code Number g. Cell phone number Area code Number h. Home phone number Area code Number i. . Work e-mail address j. Home e-mail address







To learn more about this survey and to access reports from earlier collections, see the National Teacher and Principal Survey (NTPS) website at: <u>http://nces.ed.gov/surveys/ntps</u>

> Additional data collected by the National Center for Education Statistics (NCES) on a variety of topics in elementary, secondary, postsecondary, and international education are available from NCES' website at: http://nces.ed.gov

For additional data collected by various Federal agencies, including the Department of Education, visit the Federal Statistics clearinghouse at: <u>http://fedstats.sites.usa.gov</u> Appendix I-3v: Summary of Revisions 2017-2018 NTPS School Questionnaire

*Note: This is the same table submitted to OMB by NTPS for their clearance under OMB #1850-0598 v.19

Questionnaire	Item	Update
NTPS-3A	Front Cover	Endorsers were added;
(School)		[Old]: "(ESRA, 20 U.S.C. § 9543)."
		[New]: "(ESRA 2002, 20 U.S.C. §9543)."
	item 1-2;	[Old]: "October,"
	item 1-10	[New]: "October 2017,"
	item 5-3a	
	item 5-6b	
	item 5-6c	
	item 5-7	
	item 5-10	
	Item 1-15a	[Old]: "mixed ability"
		[New]: "mixed-ability"
	Item 1-15b	[Old]: "dual language"
		[New]: "dual-language"
	item 2-2	[Old]: "MOST"
		[New]: "THIRD GRADE"
	Item 2-3	[Old]: "[ESL)"
		[New]: "[ESL])"
	item 3-1b;	[Old]: "(i.e.,"
	item 3-1d;	[New]: "(i.e."
	item 3-2a	
	item 5-2a	1 st bullet, changed '1-6' to '1-7'
		[Old]: "1-6,"
		[New]: "1-7,"
	item 5-6a	[Old]: "5-7a"
		[New]: "5-7"
	item 5-6e	[Old]: "FRPL-eligible students.Under"
		[New]: "NSLP-eligible students. Under"

Appendix I-3w: 2017-2018 NTPS School Questionnaire

Conducted by: U.S. DEPARTMENT OF EDUCATION NATIONAL CENTER FOR EDUCATION STATISTICS OMB No. 1850-0598 Approval Expires 06/30/2020 Collected by: U.S. DEPARTMENT OF COMMERCE Economics and Statistics Administration U.S. CENSUS BUREAU

SCHOOL QUESTIONNAIRE NATIONAL TEACHER AND PRINCIPAL SURVEY 2017-18 SCHOOL YEAR



(Please correct any errors in name, address, and ZIP Code.)

THIS SURVEY HAS BEEN ENDORSED BY:

American Association of School Administrators American Association of School Librarians American Federation of Teachers American Montessori Society American School Counselors Association Association for Middle Level Education (formerly National Middle School Association) Association for Supervision and Curriculum Development Association of American Educators Council of Chief State School Officers Council of the Great City Schools National Association of Elementary School Principals National Parent Teacher Association

Please return your completed questionnaire in the pre-addressed, postage-paid envelope or mail it to:

U.S. CENSUS BUREAU ATTN: DCB/PCSPU, BUILDING 60A 1201 E. 10TH STREET JEFFERSONVILLE, IN 47132-0001



The National Center for Education Statistics (NCES), within the U.S. Department of Education, is authorized to conduct this survey by the Education Sciences Reform Act of 2002 (ESRA 2002, 20 U.S.C. §9543).

FORM **NTPS-3A** (07-05-2017)



- What is the average student-teacher ratio in the United States?
- What is the average salary of a beginning principal?
- Have teachers' views of their autonomy in the classroom changed over time?
- Have the characteristics of the principal and teacher workforces in the United States changed over time?

The answers to these questions help school districts and policy makers at the state, federal, and local levels set education policy and improve teacher and principal working conditions.

Since 1988, the National Teacher and Principal Survey and its precursor, the Schools and Staffing Survey, have provided the answers to these and other important education questions from the perspective of Principals and Teachers.

By selecting a statistically representative sample of schools, and teachers in those schools, we are able to provide representative data for the United States without going to every school.

Your school has been selected to participate in the 2017-18 National Teacher and Principal Survey. You will represent thousands of other schools, so it is important that you respond to this survey.

All of the information you provide may be used only for statistical purposes and may not be disclosed, or used, in identifiable form for any other purpose except as required by law (20 U.S.C. §9573 and 6 U.S.C. §151).

More information can be found on our website: http://nces.ed.gov/surveys/ntps

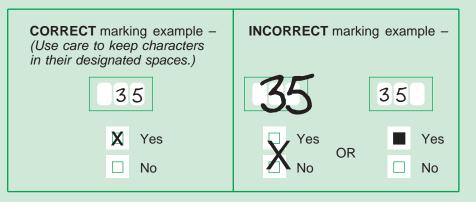
Paperwork Burden Statement

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this voluntary information collection is 1850-0598. The time required to complete this information collection is estimated to average 13 minutes per response, including the time to review instructions, search existing data resources, gather the data needed, and complete and review the information collection. If you have any comments concerning the accuracy of the time estimate, suggestions for improving this collection, or comments or concerns about the contents or the status of your individual submission of this questionnaire, please e-mail: ntps@census.gov, or write directly to: National Teacher and Principal Survey (NTPS), National Center for Education Statistics, Potomac Center Plaza, 550 12th Street, SW, Room 4014, Washington, DC 20202.



INSTRUCTIONS

The data you enter on this form will be captured through the use of imaging technology. Please print all information clearly in ordinary characters, using a **blue or black ballpoint pen**.



- **a.** This questionnaire may be completed by any staff member who has access to the school's records.
- **b.** Please do not write any comments by the answer boxes.
- **c.** If you are unsure about how to answer a question, please give the best answer you can rather than leaving it blank.
- **d.** If you have any questions, call the U.S. Census Bureau at 1-888-595-1338. Someone will be available to take your call Monday through Friday, between 8:00 a.m. and 8:00 p.m. (Eastern Time). The U.S. Census Bureau is also available to answer your questions via e-mail at: ntps@census.gov.

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1. GENERAL INFORMATION ABOUT THIS SCHOOL

Please report for the school listed on the cover.

1-1. Does this school offer the following grades?
Please mark (X) Yes or No for each grade level.

Prekindergarten	Yes	No
Kindergarten	Yes	No
1st	Yes	No
2nd	Yes	No
3rd	Yes	No
4th	Yes	No
5th	Yes	No
6th	Yes	No
7th	Yes	No
8th	Yes	No
9th	Yes	No
10th	Yes	No
11th	Yes	No
12th	Yes	No
Ungraded	Yes	No

1-2. Excluding prekindergarten, postsecondary, and adult education students, around the first of October 2017, how many students were enrolled in this school?



1-3. For this school year (2017-18), what is the Average Daily Attendance (ADA) percentage at this school?

• Round to the nearest whole **PERCENT**.



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1-4.	What is the official start and end time for MOST students at this school? If the start and end times vary by day, record the start and end time for the longest day of the week. Do not include prekindergarten or transitional first grade programs. Start time End time Image: start and end time Image: start end time Image: start end end time Image: start end time Image: start end end time Image: start end time Image: start end end time Image: start end time Image: start end end end time Image: start end time Image: start end end time Image: start end time Image: start end end time Image: start end time Image: start end end time Image: start end time Image: start end end time Image: start end time Image: start end end time Image: start end time Image: start end end time Image: start end time Image: start end end end time Image: start end end time Image: start end end end end time Image: start end end time Image: start end end end end end end end end end time Image: start end
1-5.	How many days are in a TYPICAL SCHOOL WEEK for students in this school? Do not include prekindergarten, kindergarten, or transitional first grade programs.
	Days per SCHOOL WEEK
1-6.	How many days are in the SCHOOL YEAR for students in this school?
	Days per SCHOOL YEAR
1-7.	Which of the following best describes this school?
	REGULAR school – elementary or secondary
	SPECIAL PROGRAM EMPHASIS school – such as a science or math school, performing arts school, talented or gifted school, foreign language immersion school, etc.
	SPECIAL EDUCATION school – primarily serves students with disabilities
	CAREER/TECHNICAL/VOCATIONAL school – primarily serves students being trained for occupations
	ALTERNATIVE/OTHER school – offers a curriculum designed to provide alternative or nontraditional education; does not specifically fall into the categories of regular, special program emphasis, special education, or vocational school – <i>Please describe.</i>

1-8.	•		
	(A <u>charter school</u> is a public school that, in accordance with an enabling state statute, has been granted a charter exempting it from selected state or local rules and regulations. A charter school may be a newly created school or it may previously have been a public or private school.)		
	Yes		
	$\Box \text{No} \rightarrow \text{GO TO item 1-10 below.}$		
* 1-9.	Which of the following best describes the governance structure of this public charter school?		
	An independent or stand-alone charter school		
	Part of a non-profit charter management organization or network of schools that are managed by a central agency		
	Part of a for-profit charter management organization or network of schools that are managed by a central agency		
	Part of a traditional public school district		
	Other – Please describe. $$		
4.40			
1-10.	Around the first of October 2017, how many TEACHERS held full-time or part-time positions or assignments in this school?		
	 INCLUDE these types of teachers: Regular classroom teachers 		
	• Special area or resource teachers (e.g., special education, Title I, art, music, physical		
	education) Long-term substitute teachers 		
	INCLUDE as part-time teachers:		
	 Itinerant teachers who teach part-time at this school or teachers who are shared with other schools 		
	 Employees reported in other items of this section if they also have a part-time teaching assignment at this school 		
	Ó DO NOT INCLUDE:		
	 Student teachers Short-term substitute teachers 		
	Teachers who teach ONLY prekindergarten or adult education		
	• If none, please mark (X) the box.		
	a. Full-time		
	None or Full-time teachers		
	b. Part-time		
	None or Part-time teachers		
	C TOTAL number of full and part time teachers		
	c. TOTAL number of full- and part-time teachers		
	Total teachers		

1-11a.	 Does this school currently have any students enrolled in kindergarten? Please include regular kindergarten as well as transitional (or readiness) kindergarten and transitional first (or pre-first) grade students, if enrolled.
_	Yes
Ļ	$\Box \text{No} \rightarrow \textbf{GO TO item 1-12 below.}$
b.	How long is the school day for a kindergarten, transitional kindergarten, or transitional first grade student?
	Mark (X) only one box.
	Full day (4 hours or more per day)
	Half day (less than 4 hours per day)
	Both full-day and half-day programs are offered
C.	 How many days are in a TYPICAL SCHOOL WEEK for kindergarten, transitional kindergarten, or transitional first grade students in this school? If the number of days per week varies, record the most days that a student would attend in a week.
	Days per SCHOOL WEEK
1-12.	Does this school have a library media center?
	(A <u>library media center</u> is an organized collection of printed and/or audiovisual and/or computer resources which is administered as a unit, is located in a designated place or places, and makes resources and services available to students, teachers, and administrators. A library media center may be called a school library, media center, resource center, information center, instructional materials center, learning resource center, or any other similar name.)
	□ Yes
	No



	Doe	s this school offer any courses that are taught entirely online?	
Г		Yes	
		No → GO TO item 1-14a below.	
↓			
b.		ong all the courses you offer at this school, about how many of the courses are rely online?	
	é M	lark (X) only one box.	
		One or a few courses	
		Some courses but less than half	
		About half	
		A majority	
		All courses	
1 1 1 0	Dee	- this ask as have a manual manual 2	
1-14d.		s this school have a magnet program? nagnet program offers enhancements such as special curricular themes or methods of	
		uction to attract students from outside their normal attendance area.)	
Г		Yes	
		No \rightarrow GO TO item 1-15 on page 9.	
▼ b.	ls th	nis a school-wide magnet program in which all students in this school participate in	
	the program?		
		Yes	
		Yes No	
C.	Is th	No	
C.			
c.		No ne magnet program focused on?	
C.		No ne magnet program focused on? Mark (X) for all that apply.	
C.		No ne magnet program focused on? <i>Bark (X) for all that apply.</i> Science, Technology, Engineering, or Math	
C.	• M	No The magnet program focused on? Mark (X) for all that apply. Science, Technology, Engineering, or Math Performing Arts	
C.	• M	No The magnet program focused on? <i>Park (X) for all that apply.</i> Science, Technology, Engineering, or Math Performing Arts Education for gifted or talented students Foreign language immersion	
C.	• M	No The magnet program focused on? Mark (X) for all that apply. Science, Technology, Engineering, or Math Performing Arts Education for gifted or talented students	
C.	• M	No The magnet program focused on? <i>Park (X) for all that apply.</i> Science, Technology, Engineering, or Math Performing Arts Education for gifted or talented students Foreign language immersion	
C.	• M	No The magnet program focused on? <i>Park (X) for all that apply.</i> Science, Technology, Engineering, or Math Performing Arts Education for gifted or talented students Foreign language immersion	
C.	• M	No The magnet program focused on? <i>Park (X) for all that apply.</i> Science, Technology, Engineering, or Math Performing Arts Education for gifted or talented students Foreign language immersion	
C.	• M	No The magnet program focused on? <i>Park (X) for all that apply.</i> Science, Technology, Engineering, or Math Performing Arts Education for gifted or talented students Foreign language immersion	



1-15.	Doe	s this school offer the following?
	a.	Different instructional approaches (e.g., mixed-ability grouping, self-paced instruction, ungraded classrooms, etc.) Yes No
	b.	 A dual-language or foreign language immersion program (A program in which the goal of instruction is that students are proficient in two languages) Do not include English as a Second Language (ESL) programs or classes. Yes No
	C.	 Distance learning course(s) (Taught primarily via Internet, e-mail, satellite, or television) Yes No
1-16.	for s	the following before-school or after-school programs or services currently available students in any of grades K-12, or comparable ungraded levels, regardless of funding rce at this school?
	a.	A program or service providing instruction beyond the normal school day for students who NEED academic ASSISTANCE Yes No
	b.	A program or service providing instruction beyond the normal school day for students who SEEK academic ADVANCEMENT or ENRICHMENT
	C.	Extended-day care Yes No
	d.	School-related activities and clubs (e.g., yearbook club, school dance committee, etc.) Yes No

2. INS	TRUCTIONAL TIME
2-1.	Does this school have students enrolled in the THIRD GRADE? □ Yes □ No → GO TO item 2-4 on page 12.
	What is the official start and end time for THIRD GRADE students at this school? If the start and end times vary by day, record the start and end time for the longest day of the week. Start time End time Image:
	 During a TYPICAL SCHOOL WEEK, approximately how many minutes per day do most THIRD GRADE students spend on the following activities at this school? If your school has 2 or more third grade classes, calculate the average minutes per day for all third grade classes. If most third grade students have courses taught on a rotational schedule, calculate typical course time based on the following example: For a course taught 60 minutes per day for half the year, respond with 30 minutes per day. a. English, reading, language arts (including reading and writing)
	 Minutes per day Days per week None or for Arithmetic or mathematics
	Minutes per day Days per week
	c. Social studies or history Minutes per day Days per week None None for
	 d. Science Minutes per day Days per week None or for
	FORM NTPS-3A

2-3.	do 🍎 /	ntinued – During a TYPICAL SCHOOL WEEK, approximately how many minutes per day most THIRD GRADE students spend on the following activities at this school? If your school has 2 or more third grade classes, calculate the average minutes per day for all third grade classes. If most third grade students have courses taught on a rotational schedule, calculate typical course time based on the following example: For a course taught 60 minutes per day for healt the user day for
		half the year, respond with 30 minutes per day. Foreign language (Not English as a Second Language [ESL])
		Minutes per day Days per week
		None or for
	f.	Physical education
		Minutes per day Days per week
		None or for
	g.	Music
		Minutes per day Days per week
		□ None or for
	h.	Art
		Minutes per day Days per week
		□ None or for
	i.	▲ Do NOT include time allocated for lunch.
		Minutes per day Days per week
		None or log for
		FORM NTPS-3A

2-4.	Does this school have students enrolled in the EIGHTH GRADE?
	Yes
	$\Box \text{No} \rightarrow \text{GO TO Section 3 on page 13.}$
2-5.	What is the official start and end time for EIGHTH GRADE students at this school? ♦ If the start and end times vary by day, record the start and end time for the longest day of the week. Start time End time a.m. OD: OD: DD: DD: DD: DD: DD: DD: DD: DD:
	p.m p.m.
2-6.	During a TYPICAL SCHOOL WEEK, approximately how many minutes per day do most EIGHTH GRADE students spend on the following activities at this school?
	If your school has 2 or more eighth grade classes, calculate the average minutes per day for all eighth grade classes.
	If most eighth grade students have courses taught on a rotational schedule, calculate typical course time based on the following example: For a course taught 60 minutes per day for
	half the year, respond with 30 minutes per day. a. English, reading, language arts (including reading and writing)
	A. English, reading, language arts (including reading and writing) Minutes per day Days per week
	□ None or for
	b. Arithmetic or mathematics
	Minutes per day Days per week
	□ None or for
	c. Social studies or history
	Minutes per day Days per week
	□ None or for
	d. Science
	Minutes per day Days per week
	□ None or for
	681
	FORM NTPS-3A

3. ST	3. STUDENTS AND CLASSROOM ORGANIZATION	
3-1.		ring THIS school year (2017-18), does this school use the following methods to organize sses or students?
	a.	Traditional grades (e.g., 1st grade, 2nd grade) or academic discipline-based departments (e.g., math, science)
		□ Yes
		No
	b.	Students are assigned based on their ability (i.e. tracking)
		□ Yes
		No
	C.	Grades subdivided into small groups such as "teams," "houses," or "families"
		□ Yes
		No
	d.	Student groups assigned to stay in classes together for two or more years with the SAME teacher (i.e. looping)
		□ Yes
		No
	e.	Student groups assigned to stay in classes together for two or more years with DIFFERENT teachers
		□ Yes
		No
	f.	Multi-age grouping or composite classes (Most students normally in different grades placed together)
		□ Yes
		No
	g.	Block scheduling (Extended class periods scheduled to create blocks of instruction time)
		□ Yes
		No

3-2a.	Do	students attend this school across 12 months (i.e. year-round)?
		Yes
		No \rightarrow GO TO item 3-3 below.
♦ b.		all students attend on the same cycle?
		Yes
		No
	_	
3-3.	Doe	s this school have students enrolled in any grades 9-12?
		$Yes \rightarrow GO \ TO \ item \ 3-4 \ below.$
		No \rightarrow (GO TO Section 4 on page 15.)
3-4.		the following opportunities available for students in any grades 9-12 attending this ool?
	a.	Dual or concurrent enrollment that offers both high school and college credit
		□ Yes → How is this funded?
	Г	No Mark (X) all that apply.
		By the school, district, or state
		By the family or the student
		$\Box \text{By some other entity} \Rightarrow GO \text{ TO item 3-4b below.}$
	▼ b.	Specialized career academy
		(A <u>specialized career academy</u> is a program that offers a set of specialized curriculum organized around a specific career area, such as automotive, business, carpentry, communications, construction, cosmetology, culinary arts, education, electricity, engineering, health, hospitality, IT, manufacturing, plumbing, protective and legal services, repair, transportation, etc.)
		□ Yes
		No
	C.	Career and technical education courses
	0.	 If courses are available to students but not part of a specialized career academy in 3-4b, select "Yes".
		□ Yes
		No
	d.	Work-based learning or internships outside of school, in which students earn COURSE CREDITS for supervised learning activities that occur in paid or unpaid workplace assignments
		□ Yes
		No
		FORM NTPS-3A

4. COM	MMUNITY SERVICE REQUIREMENTS
	estions in this section are about the DISTRICT that this school is a part of, not this specific school. ay wish to contact the district to obtain the information requested if it is not immediately known.
4-1.	Does this DISTRICT grant high school diplomas?
	Yes GO TO Section 5 on page 16.
▼ 4-2.	For high school graduates of the class of 2018, does this school or district have a community service requirement for a standard diploma?
Г	$\Box Yes$ $\Box No \rightarrow GO \text{ TO Section 5 on page 16.}$
↓ 4-3.	What is the minimum number of community service hours required of the high school graduates in the class of 2018?
	Hours



5. SPECIAL PROGRAMS AND SERVICES		
5-1a. ↓ b.	Of the students enrolled in this school, do any have an Individual Education Plan (IEP) because they have special needs?	
5-2a.	 Does this school primarily serve students with disabilities? If you marked "SPECIAL EDUCATION school - primarily serves students with disabilities" for item 1-7, please mark "Yes" for this item. Yes → GO TO item 5-3a on page 17. No 	
↓ b.	How many students with disabilities are in each of the following instructional settings? The sum of entries in item 5-2b should equal the entry in item 5-1b above. If none, please mark (X) the box.	
	 (1) All day in a regular classroom (100 percent of the school day) None or Students 	
	 (2) Most of the day in a regular classroom (80-99 percent of the school day) None or Students 	
	 (3) Some of the day in a regular classroom (40-79 percent of the school day) None or Students 	
	 (4) Little or none of the day in a regular classroom (0-39 percent of the school day) None or Students 	
	FORM NTPS-3A	

in 5-4. Do wi 5-5. Ho	Yes No \rightarrow GO TO item 5-6a on page 18.
in 5-4. Do wi 5-5. Ho Ar	
in 5-4. Do wi 5-5. Ho Ar	
wi 	ow many limited-English proficient students or English-language learners are enrolled this school?
wi 	Students
Ar	oes this school have instruction specifically designed to address the needs of students rith limited-English proficiency, also known as English-language learners (ELLs)?
Ar	Yes
Ar	□ No \rightarrow GO TO item 5-6a on page 18.
	ow are English-language learners taught English?
u.	re any of them taught – . Using ESL, bilingual, or immersion techniques?
	Yes
	No
b.	. In regular English-speaking classrooms?
	□ Yes
	No

5-6a.	Does this school participate in the National School Lunch Program (that is, the federal free or reduced-price lunch program)?
Г	□ Yes
Ļ	$\Box \text{No} \rightarrow \boxed{\text{GO TO item 5-7 on page 19.}}$
b.	Around the first of October 2017, how many PREKINDERGARTEN students were enrolled in this school?
Г	None or Operation Prekindergarten students
	(1) What was the percentage of PREKINDERGARTEN students at this school APPROVED for free or reduced-price lunches under the National School Lunch Program?
	% of prekindergarten students approved
C.	Around the first of October 2017, what was the percentage of GRADES K-12 students at this school APPROVED for free or reduced-price lunches under the National School Lunch Program?
	% of K-12 students approved
d.	What is the count of students whose National School Lunch Program eligibility was determined through direct certification?
	(<u>Direct certification</u> deems students eligible for free meals under the National School Lunch Program (NSLP) by their families' participation in certain Federal assistance programs such as Supplemental Nutrition Assistance Program (SNAP), Temporary Assistance for Needy Families (TANF), or Food Distribution Program on Indian Reservations (FDPIR).)
	None or Students
e.	Does this school provide a free lunch for ALL students as part of the National School Lunch Program's Community Eligibility Option?
	(The <u>Community Eligibility Program (CEP)</u> eliminates the requirement for eligibility information once a school has determined a baseline percentage of NSLP-eligible students. Under CEP, schools must serve all students free lunch and breakfast. All students in a school are therefore eligible for free lunches and there is no count of reduced-price lunch students.)
	□ Yes
	No

5-7.	Around the first of October 2017, did any students enrolled in this school receive Title I services at this school or at any other location?
	(<u>Title I</u> is a federally funded program that provides educational services, such as remedial reading or remedial math, to children who live in areas with high concentrations of low-income families.)
	☐ Yes
Ļ	$\Box \text{No} \rightarrow \textbf{GO TO Section 6 on page 20.}$
5 -8a.	How many PREKINDERGARTEN students at this school participate in the Title I program?
	None or Prekindergarten students
b.	How many students at this school in GRADES K-12 participate in the Title I program?
	None or K-12 students
5-9.	Are students receiving Title I services in –
	a. Reading or language arts?
	Yes No
	b. Mathematics?
	C. English as a Second Language (ESL)?
	No
5-10.	How many designated Title I teachers were teaching AT THIS SCHOOL around the first of October 2017?
	None or Title I teachers
	FORM NTPS-3A

6. CONTACT INFORMATION	
6-1.	What is the name of the person who completed most of this questionnaire?
6-2.	What is his or her job title?
6-3.	What is his or her phone number? Area code Number Image: Comparison of the phone number of t
6-4.	What is his or her work e-mail address?
6-5.	Please enter the date you completed this questionnaire.
6-6.	Please indicate how much time it took you to complete this form, not counting interruptions.
	Thank you very much for your participation in this survey. If you have <u>any</u> questions, please contact us, toll-free, at: 1-888-595-1338 or by e-mail at: ntps@census.gov.
	Please return your completed questionnaire in the enclosed pre-addressed, postage-paid envelope or mail it to: U.S. CENSUS BUREAU ATTN: DCB/PCSPU, BUILDING 60A
	1201 E. 10TH STREET JEFFERSONVILLE, IN 47132-0001
	FORM NTPS-3A



To learn more about this survey and to access reports from earlier collections, see the National Teacher and Principal Survey (NTPS) website at: <u>http://nces.ed.gov/surveys/ntps</u>

> Additional data collected by the National Center for Education Statistics (NCES) on a variety of topics in elementary, secondary, postsecondary, and international education are available from NCES' website at: http://nces.ed.gov

For additional data collected by various Federal agencies, including the Department of Education, visit the Federal Statistics clearinghouse at: <u>http://fedstats.sites.usa.gov</u>