NATIONAL CENTER FOR EDUCATION STATISTICS
NATIONAL ASSESSMENT OF EDUCATIONAL PROGRESS

National Assessment of Educational Progress (NAEP) 2024

Appendix J1

2024 Student Questionnaires

OMB# 1850-0928 v.29

March 2023

Appendix J1 provides the student survey questionnaires that will be administered in 2024. Grades 4 and 8 Core, Math, and Reading questionnaires were previously approved in 2022 (OMB# 1850-0928 v.28), and any changes to the items from the 2022 administration are reflected in summary tables. Additionally, grade 8 Science and grade 12 Core, Math, and Reading were previously approved in 2019 (OMB# 1850-0928 v.15), and any changes to the items from the 2019 administration are reflected in summary tables.

Updates to the student survey questionnaires, including new COVID-19 SQs, will be available in this document in Amendment #2 by May 2023. Draft NIES questionnaires will be included in Amendment #2 and final questionnaires will be in Amendment #3 (July 2023). Note that all login screens contained in this document will be updated with the most current OMB clearance expiration date before administration.

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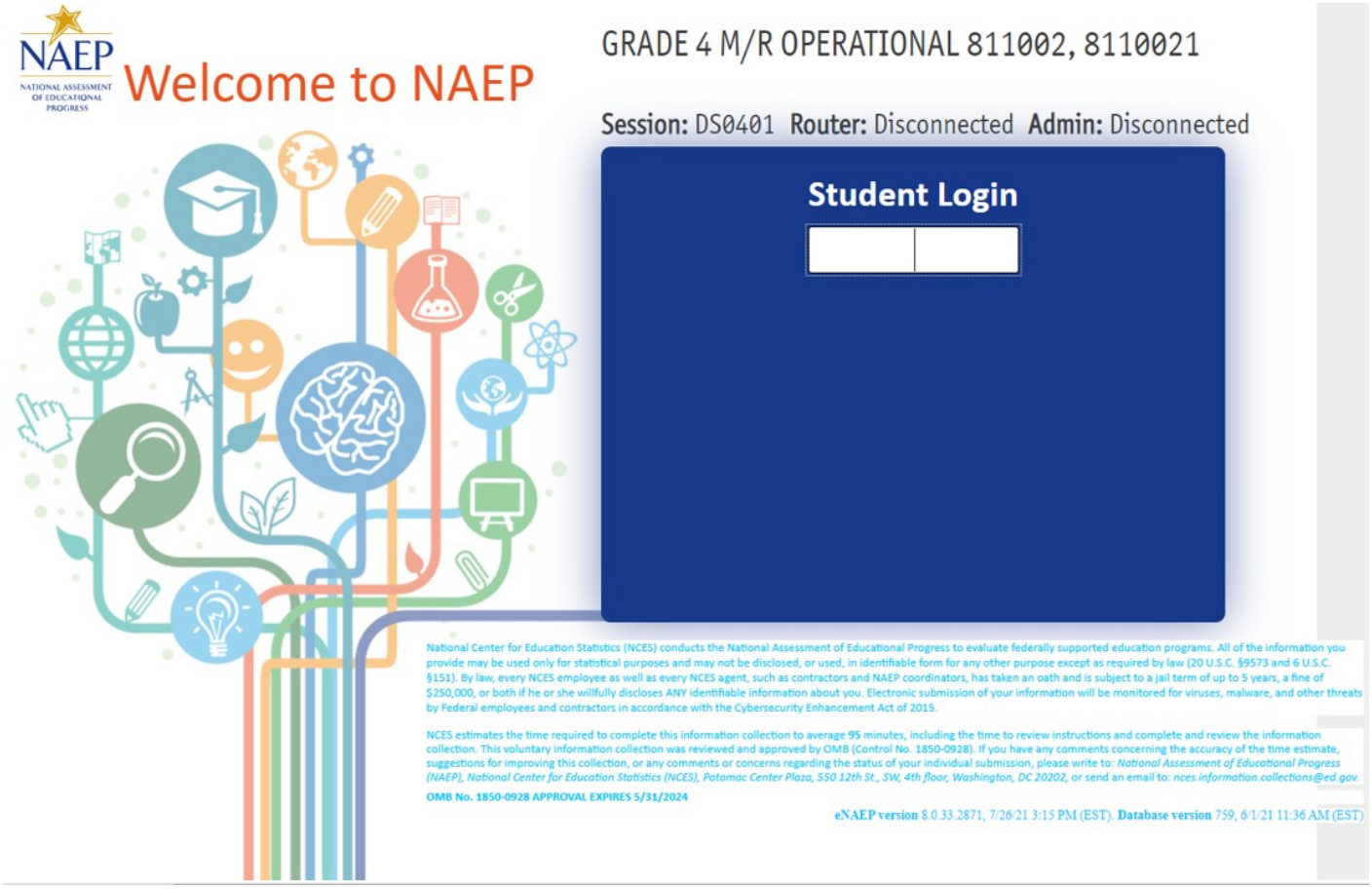
Student Login Screen



Appendix J1-1: Operational Grade 4 (Core)

VH240387

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

   Ⓐ No, I am not Hispanic or Latino.

   Ⓑ 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.

VH240388

2. Which of the following best describes you? Select **one or more** answer choices.

   Ⓐ White

   Ⓑ Black or African American

   Ⓒ Asian

   Ⓓ American Indian or Alaska Native

   Ⓔ Native Hawaiian or other Pacific Islander

VH240186

3. About how many books are there in your home?

   Ⓐ 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)

VR190753

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	Ⓐ	Ⓑ	VH271105
b. A desktop or laptop computer (including Chromebooks) that you can use	Ⓐ	Ⓑ	VH591976
c. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	Ⓐ	Ⓑ	VH271110

VH240190

5. How many days were you absent from school in the last month?

   Ⓐ None

   Ⓑ 1 or 2 days

   Ⓒ 3 or 4 days

   Ⓓ 5 to 10 days

   Ⓔ More than 10 days

VH271144

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

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

VH591969

7. 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

Ⓓ In more than half of the classes

Ⓔ In all or almost all classes

VH733149

8. 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.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH733150
b. I like activities that challenge my thinking abilities.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH733151
c. I enjoy situations where I will have to think about something.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH733155
d. I enjoy thinking about new solutions to problems.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH733154

VH271367

9. In this school year, how often have you done each of the following? 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 started working on assignments right away rather than waiting until the last minute.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH271370
b. I paid attention and resisted distractions.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH271372
c. I stayed on task without reminders from my teacher.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH271374
d. I paid attention in class even when I was not interested.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH271375

Appendix J1-2: Operational Grade 8 (Core)

VH240387

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

   (A) No, I am not Hispanic or Latino.

   (B) Yes, I am Mexican, Mexican American, or Chicano.

   (C) Yes, I am Puerto Rican or Puerto Rican American.

   (D) Yes, I am Cuban or Cuban American.

   (E) Yes, I am from some other Hispanic or Latino background.

VH240388

2. Which of the following best describes you? Select **one or more** answer choices.

   (A) White

   (B) Black or African American

   (C) Asian

   (D) American Indian or Alaska Native

   (E) Native Hawaiian or other Pacific Islander

VH240186

3. About how many books are there in your home?

   (A) Few (0–10)

   (B) Enough to fill one shelf (11–25)

   (C) Enough to fill one bookcase (26–100)

   (D) Enough to fill several bookcases (more than 100)

VH271104

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	Ⓐ	Ⓑ	VH271105
b. Your own bedroom	Ⓐ	Ⓑ	VH336762
c. A desktop or laptop computer (including Chromebooks) that you can use	Ⓐ	Ⓑ	VH591976
d. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	Ⓐ	Ⓑ	VH271110
e. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	Ⓐ	Ⓑ	VH271112

VH354591

5. How often do you use the Internet for homework at home?

Ⓐ Never

Ⓑ About once or twice a month

Ⓒ About once or twice a week

Ⓓ Almost every day

Ⓔ Every day

VH240190

6. How many days were you absent from school in the last month?

Ⓐ None

Ⓑ 1 or 2 days

Ⓒ 3 or 4 days

Ⓓ 5 to 10 days

Ⓔ More than 10 days

VIE240189

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

   (A) Never or hardly ever

   (B) Once every few weeks

   (C) About once a week

   (D) Two or three times a week

   (E) Every day

VIE240192

8. How far in school did **your mother** go?

   (A) She did not finish high school.

   (B) She graduated from high school.

   (C) She had some education after high school.

   (D) She graduated from college.

   (E) I don't know.

VIE240193

9. How far in school did **your father** go?

   (A) He did not finish high school.

   (B) He graduated from high school.

   (C) He had some education after high school.

   (D) He graduated from college.

   (E) I don't know.

VH336776

10. Does **your mother** work?

Ⓐ Yes

Ⓑ No

Ⓒ I don't know.

VH336779

11. Does **your father** work?

Ⓐ Yes

Ⓑ No

Ⓒ I don't know.

VH271144

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

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

VH591969

13. 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

Ⓓ In more than half of the classes

Ⓔ In all or almost all classes

VH271276

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

Ⓓ In more than half of the classes

Ⓔ In all or almost all classes

VH733141

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 finish whatever I begin.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH733142
b. I try very hard even after making mistakes.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH733143
c. I keep working hard even when I feel like quitting.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH733145
d. I keep trying to improve myself, even when it takes a long time to get there.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH733144

VH733149

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 like complex problems more than easy problems.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH733150
b. I like activities that challenge my thinking abilities.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH733151
c. I enjoy situations where I will have to think about something.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH733155
d. I enjoy thinking about new solutions to problems.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH733154

VH271367

17. In this school year, how often have you done each of the following? 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 started working on assignments right away rather than waiting until the last minute.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH271370
b. I paid attention and resisted distractions.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH271372
c. I stayed on task without reminders from my teacher.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH271374
d. I paid attention in class even when I was not interested.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH271375

VH852900

18. Are you taking an art course this school year (for example, drawing, painting, or studio art)?

Ⓐ Yes

Ⓑ No

Appendix J1-3: Operational Grade 12 (Core)

VH240387

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

   Ⓐ No, I am not Hispanic or Latino.

   Ⓑ 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.

VH240388

2. Which of the following best describes you? Select **one or more** answer choices.

   Ⓐ White

   Ⓑ Black or African American

   Ⓒ Asian

   Ⓓ American Indian or Alaska Native

   Ⓔ Native Hawaiian or other Pacific Islander

VH240186

3. About how many books are there in your home?

   Ⓐ 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)

VH271104

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	Ⓐ	Ⓑ	VH271105
b. Your own bedroom	Ⓐ	Ⓑ	VH336762
c. A desktop or laptop computer (including Chromebooks) that you can use	Ⓐ	Ⓑ	VH591976
d. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	Ⓐ	Ⓑ	VH271110
e. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	Ⓐ	Ⓑ	VH271112

VH354591

5. How often do you use the Internet for homework at home?

Ⓐ Never

Ⓑ About once or twice a month

Ⓒ About once or twice a week

Ⓓ Almost every day

Ⓔ Every day

VH240190

6. How many days were you absent from school in the last month?

Ⓐ None

Ⓑ 1 or 2 days

Ⓒ 3 or 4 days

Ⓓ 5 to 10 days

Ⓔ More than 10 days

VIE240189

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

   (A) Never or hardly ever

   (B) Once every few weeks

   (C) About once a week

   (D) Two or three times a week

   (E) Every day

VIE240192

8. How far in school did **your mother** go?

   (A) She did not finish high school.

   (B) She graduated from high school.

   (C) She had some education after high school.

   (D) She graduated from college.

   (E) I don't know.

VIE240193

9. How far in school did **your father** go?

   (A) He did not finish high school.

   (B) He graduated from high school.

   (C) He had some education after high school.

   (D) He graduated from college.

   (E) I don't know.

VH336776

10. Does **your mother** work?

Ⓐ Yes

Ⓑ No

Ⓒ I don't know.

VH336779

11. Does **your father** work?

Ⓐ Yes

Ⓑ No

Ⓒ I don't know.

VH271144

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

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

VH591969

13. 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

Ⓓ In more than half of the classes

Ⓔ In all or almost all classes

VH271276

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

Ⓓ In more than half of the classes

Ⓔ In all or almost all classes

VH733141

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 finish whatever I begin.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH733142
b. I try very hard even after making mistakes.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH733143
c. I keep working hard even when I feel like quitting.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH733145
d. I keep trying to improve myself, even when it takes a long time to get there.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH733144

VH733149

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 like complex problems more than easy problems.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH733150
b. I like activities that challenge my thinking abilities.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH733151
c. I enjoy situations where I will have to think about something.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH733155
d. I enjoy thinking about new solutions to problems.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH733154

VH271367

17. In this school year, how often have you done each of the following? 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 started working on assignments right away rather than waiting until the last minute.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH271370
b. I paid attention and resisted distractions.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH271372
c. I stayed on task without reminders from my teacher.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH271374
d. I paid attention in class even when I was not interested.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH271375

VH271934

18. 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.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH271942
b. I felt happy at school.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH271944
c. I felt that I learned something that I can use in my daily life.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH336903

VH852900

19. Are you taking an art course this school year (for example, drawing, painting, or studio art)?

Ⓐ Yes

Ⓑ No

VH740697

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

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

VH240194

21. Which of the following best describes your high school program?

Ⓐ General

Ⓑ Academic or college preparatory

Ⓒ Vocational or technical

Appendix J1-4: Operational Grade 4 (Mathematics)

VH350115

1. 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
Ⓒ Two or three times
Ⓓ Four or five times
Ⓔ More than five times

VH267415

2. This school year, how often did the following things happen in your math class? 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. My teacher used computers or other digital devices when teaching math to my class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH588077
b. My teacher required us to use computers or other digital devices to complete math assignments.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH267419

VH336231

3. How often do you **use a calculator**?

Ⓐ 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

VH268936

4. How often do you use math in everyday life **outside of 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

VH268945

5. 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	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH268946
b. Play an instrument and read music	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH268961
c. Go to websites for help with your math homework	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH268962

VH336233

6. How often do you receive help or tutoring with math **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

VH460329

7. 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

VH267672

8. 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.)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH267674
b. Divide 42 stickers among 6 students	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH617317
c. Find the amount of carpet needed to cover a rectangular floor if you know its length and width	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH267682
d. 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	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH267683

VH845110

9. 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 in my math class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH845117
b. I want to master a lot of new skills in my math class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH845114
c. I want to become better in math this year.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH845115
d. I want to understand as much as I can in my math class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH845118

VH844769

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 enjoy doing math.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844770
b. I look forward to my math class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844771
c. I am interested in the things I learn in math.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844775
d. I think making an effort in math is worthwhile.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844772
e. I think math will help me even when I am not in school.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844777
f. I think it is important to do well in math.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844774

Appendix J1-5: Operational Grade 8 (Mathematics)

VH266769

1. What math class are you taking this year? Select **one or more** answer choices.

- Ⓐ Eighth-grade math
- Ⓑ General eighth-grade math
- Ⓒ Algebra I course
- Ⓓ First year of a two-year algebra course
- Ⓔ Second year of a two-year algebra course
- Ⓕ Algebra I (one-year course)
- Ⓖ Algebra II
- Ⓗ Geometry
- Ⓘ Other

VH240046

2. What math class do you expect to take next year?

- Ⓐ Geometry
- Ⓑ Algebra II
- Ⓒ Algebra I (one-year course)
- Ⓓ First year of a two-year Algebra I course
- Ⓔ Second year of a two-year Algebra I course
- Ⓕ Introduction to algebra or pre-algebra
- Ⓖ Basic or general math
- Ⓗ Business or consumer math
- Ⓘ Other math class
- Ⓙ I don't know.

VH350115

3. 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

Ⓒ Two or three times

Ⓓ Four or five times

Ⓔ More than five times

VH266808

4. 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	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH266809
b. Scientific (not graphing) calculator	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH191495
c. Graphing calculator	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH266810

VH267415

5. This school year, how often did the following things happen in your math class? 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. My teacher used computers or other digital devices when teaching math to my class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH588077
b. My teacher required us to use computers or other digital devices to complete math assignments.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH267419

VH268936

6. How often do you use math in everyday life **outside of 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

VH589204

7. 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	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH268946
b. Program computers	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH268949
c. Play an instrument and read music	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH268961
d. Go to websites for help with your math homework	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH268962

VH336233

8. How often do you receive help or tutoring with math **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

VH460329

9. 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

VH460345

10. 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. List all of the different possible outcomes when a coin is flipped three times	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH460382
b. Create an expression that represents the average number of miles you run in a week if you run 100 miles in w weeks	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH460383
c. Determine a 20 percent tip of a 67-dollar restaurant dinner bill	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH267679
d. Find the amount of carpet needed to cover a rectangular floor if you know its length and width	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH267682
e. Give an example to show that a math statement is false	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH460399
f. Explain to your classmate how you solved a math problem	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH460910
g. Use correct mathematical words and symbols when showing your work	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH460902

VH845110

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 in my math class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH845117
b. I want to master a lot of new skills in my math class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH845114
c. I want to become better in math this year.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH845115
d. I want to understand as much as I can in my math class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH845118

VH844769

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

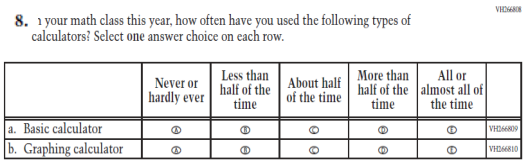
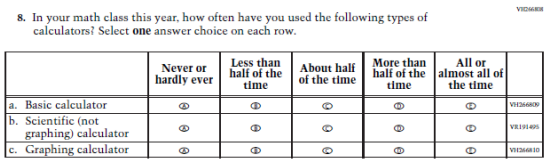
	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me	
a. I enjoy doing math.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844770
b. I look forward to my math class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844771
c. I am interested in the things I learn in math.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844775
d. I think making an effort in math is worthwhile.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844772
e. I think math will help me even when I am not in school.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844777
f. I think it is important to do well in math.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844774

VH844743

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

	Enjoy not at all	Enjoy a little bit	Enjoy somewhat	Enjoy quite a bit	Enjoy a lot	
a. Addition, subtraction, multiplication, and division	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844744
b. Finding areas of shapes and figures	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844745
c. Solving for probabilities and events (for example, card, coin, marble, and spinner problems)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844746
d. Solving equations or simplifying expressions	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844750
e. Constructing and building different types of graphs (for example, bar graph, line graph, or box and whisker plots)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844748
f. Working with geometric figures like rectangles and squares	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844749

Appendix J1-6: Summary of Changes Operational Grade 12 (Mathematics)

2024 Operational Grade 12 Mathematics Student			
Previous Item	**2024 Item**	**D/A/ R/NC +**	**Rationale**
 8. ı 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 — VH266808 b. Graphing calculator — VH266810 (2019 Grade 12)	 8. 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 — VH266809 b. Scientific (not graphing) calculator — VR191495 c. Graphing calculator — VH266810 **Issue:** Resources for Learning and Instruction	R	SubItem "b." added to match the Grade 8 Item that was administered in 2022.

Appendix J1-7: Operational Grade 12 (Mathematics)

VH240819

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.	
a. **Basic** or **general** mathematics course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VH240820
b. **Tech-prep** mathematics, **business** mathematics, **consumer** mathematics, or other **applied mathematics** course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VH240844
c. **Introduction to algebra** or **pre-algebra** course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VH240822
d. **Algebra I** course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VH240823
e. **Geometry** course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VH240824
f. **Algebra II** course, **with or without trigonometry**	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VH240825
g. **Trigonometry** (as a separate course)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VH240826
h. **Pre-calculus** course (also called introductory analysis)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VH240833
i. **Integrated** mathematics 1 (first year of a multi-year course)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VH240841
j. **Integrated** mathematics 2 (second year of a multi-year course)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VH240842
k. **Integrated** mathematics 3 (third year of a multi-year course)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VH240843

	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.	
l. **Integrated** mathematics 4 (fourth year of a multi-year course)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VH240821
m. **Probability or statistics** course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VH240836
n. **Calculus** course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VH240829
o. **Computer programming** course (such as C++, Visual Basic, etc.)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VH240835

VH250444

2. Are you currently enrolled in or have you taken any of the following Advanced Placement (AP®) courses? Select **all** that apply.

   Ⓐ 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.

VH240048

3. Are you currently enrolled in or have you taken an International Baccalaureate® (IB) mathematics course?

   Ⓐ Yes

   Ⓑ No

VH240049

4. Are you currently enrolled in or have you taken any **online** mathematics courses for **high school or college credit**?

   Ⓐ Yes

   Ⓑ No

VH240050

5. Was there a mathematics course that you would have liked to have taken this school year but did not take?

   Ⓐ Yes, 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.

VH240051

6. Are you currently taking a mathematics course?

   Ⓐ Yes

   Ⓑ No

VH350115

7. 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

   Ⓒ Two or three times

   Ⓓ Four or five times

   Ⓔ More than five times

VH266808

8. 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	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH266809
b. Scientific (not graphing) calculator	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VR191495
c. Graphing calculator	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH266810

VH589166

9. This school year, how often did the following things happen in your math class? 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. My teacher used computers or other digital devices to show us how to work through math problems.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH267416
b. I used the Internet for my math work.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH267417
c. My teacher used computers or other digital devices when teaching math to my class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH588077
d. My teacher required us to use computers or other digital devices to complete math assignments.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH267419

VH336037

10. 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

Ⓑ About once or twice a year

Ⓒ About once or twice a month

Ⓓ About once or twice a week

Ⓔ Every day or almost every day

VH844870

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 other students to think I am good at math.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844871
b. I want to show others that my math schoolwork is easy for me.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844872
c. I want to look smart in comparison to the other students in my math class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844873
d. I want to get better grades than most other students in my math class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844882

VH845110

12. 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 in my math class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH845117
b. I want to master a lot of new skills in my math class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH845114
c. I want to become better in math this year.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH845115
d. I want to understand as much as I can in my math class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH845118

VH613511

13. 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. Create an expression that represents the average number of miles you run in a week if you run 100 miles in *w* weeks	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH460383
b. Determine a 20 percent tip of a 67-dollar restaurant dinner bill	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH267679
c. Describe the properties shared by every isosceles right triangle	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH267681

VH613523

14. Thinking about math, do you think that you would be able to do each of the following? 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	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH460398
b. Give an example to show that a math statement is false	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH460399
c. Explain to your classmate how you solved a math problem	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH460910
d. Use correct mathematical words and symbols when showing your work	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH460902
e. Use definitions of geometric shapes to support an argument	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH460912

VH860646

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

	Enjoy not at all	Enjoy a little bit	Enjoy somewhat	Enjoy quite a bit	Enjoy a lot	
a. Solving equations or simplifying expressions	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH860653
b. Constructing and building different types of graphs (for example, bar graph, line graph, or box and whisker plots)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH860651
c. Working with geometric figures like rectangles and squares	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH860652

VH268936

16. How often do you use math in everyday life **outside of 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

VH460329

17. 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

VH589204

18. 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	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH268946
b. Program computers	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH268949
c. Play an instrument and read music	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH268961
d. Go to websites for help with your math homework	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH268962

VH336233

19. How often do you receive help or tutoring with math **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

VH336085

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

Ⓐ Yes

Ⓑ No

VH269037

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

☐

VH460923

22. Have you ever participated in a math study group **outside of school**?

Ⓐ Yes

Ⓑ No

VH460925

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

☐

VH731852

24. 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 enjoy doing math.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH731853
b. I look forward to my math class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH731854
c. I am interested in the things I learn in math.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH731858
d. I think making an effort in math is worthwhile.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH731855
e. I think math will help me even when I am not in school.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH731860
f. I think it is important to do well in math.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH731857
g. I take mathematics because it will help me in the future.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH731859
h. I take mathematics to meet my high school graduation requirements.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH731856

Appendix J1-8: Operational Grade 4 (Reading)

VH332853

1. How often does your teacher ask you to discuss new or difficult vocabulary?

- Ⓐ 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

VH332862

2. 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

VH332871

3. For school this year, how often do you have a class discussion about something that the class has 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

VH588774 VH58877

4. 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

   Ⓒ Two or three times

   Ⓓ Four or five times

   Ⓔ More than five times

VH460301 VH46030

5. 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

   Ⓑ About once or twice a year

   Ⓒ About once or twice a month

   Ⓓ About once or twice a week

   Ⓔ Every day or almost every day

VH337050

6. 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. Figure out the meaning of a word you don't know by using other words in the text	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260848
b. Explain the meaning of something you have read	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260849
c. Figure out the main idea of a text	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260851
d. Find text in a reading passage to help you answer a question on a test	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260859
e. Recognize when you don't understand something you are reading	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260861
f. Recognize the difference between fact and opinion in a text	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260863

VH844081

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 to learn as much as possible in my English/language arts class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844096
b. I want to become a better reader this year.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844097
c. I want to understand as much as I can in my English/language arts class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844098
d. I want to master a lot of new English/ language arts skills in my class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844100

VH844168

8. 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. Reading is one of my favorite activities.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844169
b. I like talking about books with other people.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844170
c. I think reading is important.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844172
d. I enjoy going to a bookstore or a library.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844171

VH598686

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

Ⓐ Less than 30 minutes a day

Ⓑ About 30 minutes a day

Ⓒ About 1 hour a day

Ⓓ About 2 hours a day

Ⓔ About 3 hours a day

Ⓕ 4 or more hours a day

VH332820

10. How often do you receive help from a tutor, family member, or friend with English/language arts **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

VH192186

11. 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	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260907
b. Read blogs	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260913

Appendix J1-9: Operational Grade 8 (Reading)

VH332887

1. 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	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH332888
b. Work in pairs or small groups to talk about something that you have read	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH332889

VH260254

2. 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	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260256
b. Analyze the author's organization of information in a passage	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH333142

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. Summarize the passage	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH333075
b. Interpret the meaning of the passage	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH333076
c. Question the motives or feelings of the characters	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH333079
d. Identify the main ideas of the passage	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH333078
e. Identify the themes of the passage	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH333094

VH588774

4. 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

Ⓒ Two or three times

Ⓓ Four or five times

Ⓔ More than five times

VH260847

5. 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. Figure out the meaning of a word you don't know by using other words in the text	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260848
b. Explain the meaning of something you have read	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260849
c. Figure out the main idea of a text	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260851
d. Find text in a reading passage to help you answer a question on a test	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260859
e. Recognize when you don't understand something you are reading	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260861

VH611300

6. 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	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260863
b. Judge the reliability of sources (for example, how a website might be biased or inaccurate)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260857
c. Critique an author's craft or technique	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260866
d. Use evidence from a text to support my answer	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH616841
e. Identify the author's perspective in a persuasive text	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260868

VH844081

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 to learn as much as possible in my English/language arts class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844096
b. I want to become a better reader this year.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844097
c. I want to understand as much as I can in my English/language arts class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844098
d. I want to master a lot of new English/ language arts skills in my class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844100

VH844168

8. 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. Reading is one of my favorite activities.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844169
b. I like talking about books with other people.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844170
c. I think reading is important.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844172
d. I enjoy going to a bookstore or a library.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844171

VH598686

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

Ⓐ Less than 30 minutes a day

Ⓑ About 30 minutes a day

Ⓒ About 1 hour a day

Ⓓ About 2 hours a day

Ⓔ About 3 hours a day

Ⓕ 4 or more hours a day

VH261065

10. How often do you typically read each of the following **outside of school** (print or online)? 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. Stories or novels	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH261066
b. Biographies	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH617043
c. E-mails	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH261074
d. Text messages	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH261075

VH332820

11. How often do you receive help from a tutor, family member, or friend with English/language arts **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

VH260906

12. 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	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260907
b. Go to my local library to borrow books (print or online)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260911
c. Read blogs	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260913

Appendix J1-10: Operational Grade 12 (Reading)

VH731527

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.

	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	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH731530
b. Done a project about something that you have read (for example, written a play, created a website)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH731529

VH882575

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	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH332888
b. Work in pairs or small groups to talk about something that we have read	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH652035
c. Discuss different interpretations of what we have read	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH652037

VH882582

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	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260256
b. Analyze the author's organization of information in a passage	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH333142
c. Critique the author's craft or technique	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH333144

VH882547

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	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH333075
b. Interpret the meaning of the passage	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH333076
c. Question the motives or feelings of the characters	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH333079
d. Identify the main ideas of the passage	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH333078
e. Identify the themes of the passage	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH333094
f. Analyze two or more texts on the same topic	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH333077

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

   Ⓑ Once

   Ⓒ Two or three times

   Ⓓ 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?

   Ⓐ Less than 30 minutes

   Ⓑ About 30 minutes

   Ⓒ About 1 hour

   Ⓓ About 2 hours

   Ⓔ About 3 hours

   Ⓕ 4 or more hours

VH460301

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

   Ⓑ About once or twice a year

   Ⓒ About once or twice a month

   Ⓓ About once or twice a week

   Ⓔ Every day or almost every day

VH260847

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. Figure out the meaning of a word you don't know by using other words in the text	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260848
b. Explain the meaning of something you have read	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260849
c. Figure out the main idea of a text	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260851
d. Find text in a reading passage to help you answer a question on a test	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260859
e. Recognize when you don't understand something you are reading	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260861

VH611300

9. 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	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260863
b. Judge the reliability of sources (for example, how a website might be biased or inaccurate)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260857
c. Critique an author's craft or technique	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260866
d. Use evidence from a text to support my answer	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH616841
e. Identify the author's perspective in a persuasive text	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260868

VH844052

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 other students to think I am good at reading.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844065
b. I want to show others that my English/ language arts schoolwork is easy for me.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844066
c. I want to look smart in comparison to the other students in my English/language arts class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844068
d. I want to get better English/language arts grades than most other students in my class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844070

VH844081

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 in my English/language arts class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844096
b. I want to become a better reader this year.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844097
c. I want to understand as much as I can in my English/language arts class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844098
d. I want to master a lot of new English/ language arts skills in my class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844100

VH844168

12. 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. Reading is one of my favorite activities.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844169
b. I like talking about books with other people.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844170
c. I think reading is important.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844172
d. I enjoy going to a bookstore or a library.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH844171

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

Ⓑ About once or twice a year

Ⓒ About once or twice a month

Ⓓ About once or twice a week

Ⓔ Every day or almost every day

VH598686

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

- Ⓐ Less than 30 minutes a day
- Ⓑ About 30 minutes a day
- Ⓒ About 1 hour a day
- Ⓓ About 2 hours a day
- Ⓔ About 3 hours a day
- Ⓕ 4 or more hours a day

VH882561

15. How often do you typically read each of the following **outside of school** (print or online)? 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. Stories or novels	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓕ	VH261066
b. Poems	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓕ	VH261067
c. Plays	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓕ	VH261068
d. Biographies	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓕ	VH617043
e. Comic books	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓕ	VH261070
f. Magazines	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓕ	VH261071
g. E-mails	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓕ	VH261074
h. Text messages	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓕ	VH261075

VH260906

16. 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	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓕ	VH260907
b. Go to my local library to borrow books (print or online)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓕ	VH260911
c. Read blogs	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓕ	VH260913
d. Use social media (for example, Facebook, Twitter, Instagram)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓕ	VH333261
e. Help friends with reading homework	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓕ	VH260917

VH240398

17. Are you currently enrolled in or have you taken an Advanced Placement (AP®) course in English/language arts? Select **all** that apply.

   Ⓐ Yes, I am enrolled in or have taken Advanced Placement (AP) English **Language** and Composition.

   Ⓑ 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

18. Are you currently enrolled in or have you taken the International Baccalaureate® (IB) Language A1 course?

   Ⓐ Yes

   Ⓑ No

VH240007

19. Are you currently enrolled in or have you taken any online English/language arts courses for high school or college credit?

   Ⓐ Yes

   Ⓑ No

Appendix J1-11: Operational Grade 8 (Science)

VH639071

1. 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)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639072
b. Electricity (for example, circuits, batteries, or light bulbs)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639074
c. Chemicals (for example, vinegar, baking soda, or hydrogen peroxide)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639073
d. Rocks or minerals (for example, diamond, iron, or lava rock)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639077
e. Technology and engineering (for example, robots, pulley systems, or ramps)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639076

VH639311

2. 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	
a. Read from a science textbook (print or digital)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639313
b. Read a book or magazine (print or digital) about science topics	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639315
c. Used the Internet to learn about science topics	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639314
d. Watched a short video clip, movie, or video about science topics	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639312
e. Used a magnifying glass or microscope	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH887984
f. Used a thermometer or weighing scale for making measurements	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639078

VH882513

3. 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 how the length of a vibrating string affects the sound it makes	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH638870
b. Design an experiment to show how sunlight affects the growth of a plant	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH638872
c. Describe what would happen to the number of frogs at a pond if all the insects were removed from the pond	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH638876
d. Decide which tool to use if you want to measure wind speed	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH638883

VH639079

4. 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.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639080
b. I want to show others that science schoolwork is easy for me.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639082
c. I want to look smart in comparison to the other students in my science class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639084
d. I want to get better grades than most other students in my science class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH860366

VH859155

5. 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 in my science class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639086
b. I want to become better in science this year.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639087
c. I want to understand as much as I can in my science class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639089
d. I want to master a lot of new skills in my science class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH860369

VH638951

6. 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. Worked on science-related projects (for example, making a volcano, growing plants from seeds, or building simple rockets)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH859162
b. Used scientific tools (for example, microscopes, thermometers, beakers, or weighing scales)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH891927
c. Read about science topics in books or magazines (print or digital)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH638987
d. Attended clubs or programs that include science or engineering activities (for example chemistry club, robotics club, or coding programs)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH893268

VH639115

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 enjoy science activities.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639117
b. I look forward to my science class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639120
c. I am interested in the things I learn in science class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639122
d. I think making an effort in science class is worthwhile.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639125
e. I think science will help me even when I am not in school.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639127
f. I think it is important to do well on science assignments.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639128

VH639733

8. In this school year, how often have you done the following activities in your science class? 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	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639744
b. Made drawings that explain why or how something happens	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639749
c. Came up with experiments that you could use to answer a research question	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639753
d. Used tables or graphs to identify relationships between variables	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639760
e. Used math equations to explain or support scientific conclusions	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639763
f. Used evidence from experiments to explain why something happens	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639765
g. Used information to disagree with someone about a scientific idea	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639770
h. Combined information about science from multiple sources (for example, books, websites, or articles) for an assignment	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639777

9. 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

Appendix J1-12: Operational Grade 4 (Debrief)

VH333658

1. How much effort did you apply to succeed on this test?

- Ⓐ No effort at all
- Ⓑ Very little effort
- Ⓒ Some effort
- Ⓓ Quite a bit of effort
- Ⓔ A lot of effort

Appendix J1-13: Operational Grade 8 and 12 (Debrief)

VH260313

1. How easy or difficult was this test?

- Ⓐ Extremely difficult
- Ⓑ Quite difficult
- Ⓒ Somewhat difficult
- Ⓓ Somewhat easy
- Ⓔ Quite easy
- Ⓕ Extremely easy

VH333658

2. How much effort did you apply to succeed on this test?

- Ⓐ No effort at all
- Ⓑ Very little effort
- Ⓒ Some effort
- Ⓓ Quite a bit of effort
- Ⓔ A lot of effort