

*NATIONAL CENTER FOR EDUCATION STATISTICS
NATIONAL ASSESSMENT OF EDUCATIONAL PROGRESS*

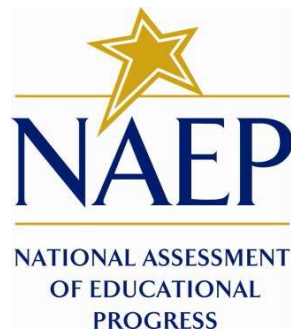
*National Assessment of Educational Progress (NAEP) 2019
and 2020*

Long-Term Trend (LTT) 2020 Update Emergency Clearance

Appendix K1

NAEP 2019 Student Questionnaires

OMB# 1850-0928 v.16



October 2018
No changes since v.11

Appendix F provides the library of possible items to be used in the NAEP 2019 and 2020 questionnaires. This appendix (Appendix K1) includes the final version of the NAEP 2019 Student questionnaires, as well as a summary of any minor, non-substantive, wording changes made as a result of pilot and cognitive interview results and final reviews. In addition, 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. The confidentiality citation has been updated in September 2018 and is consistent with that provided in Part A.

Abbreviation Key
CAFS: Computer Access and Familiarity
ESQ: Extended Student Questionnaire
NIES: National Indian Education Study

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).

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Student Login Screen

Welcome to NAEP

Grade 04 Booklet M151 School (FULCRUM), 9813151

Session: QC0401 Router: Disconnected Admin: Disconnected



Student Login

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 90 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.*

OMB No. 1850-0928 APPROVAL EXPIRES 09/30/2021

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). All of the information provided by participants 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 5 U.S.C. §151). 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. Electronic submission of your 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.

eNAEP version 4.1.1.34969, 9/6/18 9:27 AM (EST). Database version 673, 8/31/18 7:13 AM (EST)
eNAEP Chrome Extension Version 3.1.5

**Appendix K-1a: Summary of Changes Operational and Pilot
Student Debrief Grades 4, 8, and 12**

2019 Operational and Pilot Grade 4, 8, and 12 Debrief Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p>1. How important was it to you to do well on this test?</p> <p><input type="radio"/> Not very important</p> <p><input type="radio"/> Somewhat important</p> <p><input type="radio"/> Important</p> <p><input type="radio"/> Very important</p> <p>(2018 Grade 4, 8, and 12)</p>	N/A	D	To keep student burden low, this item was dropped.
<p>2. How easy or difficult was this test?</p> <p><input type="radio"/> Extremely difficult</p> <p><input type="radio"/> Quite difficult</p> <p><input type="radio"/> Somewhat difficult</p> <p><input type="radio"/> Somewhat easy</p> <p><input type="radio"/> Quite easy</p> <p><input type="radio"/> Extremely easy</p> <p>(2018 Grade 4, 8, and 12)</p>	<p>1. How easy or difficult was this test?</p> <p><input type="radio"/> Extremely difficult</p> <p><input type="radio"/> Quite difficult</p> <p><input type="radio"/> Somewhat difficult</p> <p><input type="radio"/> Somewhat easy</p> <p><input type="radio"/> Quite easy</p> <p><input type="radio"/> Extremely easy</p> <p>Issue: Debrief</p>	NC	N/A
<p>3. How much effort did you apply to succeed on this test?</p> <p><input type="radio"/> No effort at all</p> <p><input type="radio"/> Very little effort</p> <p><input type="radio"/> Some effort</p> <p><input type="radio"/> Quite a bit of effort</p> <p><input type="radio"/> A lot of effort</p> <p>(2018 Grade 4, 8, and 12)</p>	<p>2. How much effort did you apply to succeed on this test?</p> <p><input type="radio"/> No effort at all</p> <p><input type="radio"/> Very little effort</p> <p><input type="radio"/> Some effort</p> <p><input type="radio"/> Quite a bit of effort</p> <p><input type="radio"/> A lot of effort</p> <p>Issue: Debrief</p>	NC	N/A
<p>4. How challenging was taking this test?</p> <p><input type="radio"/> Not challenging at all</p> <p><input type="radio"/> A little challenging</p> <p><input type="radio"/> Somewhat challenging</p> <p><input type="radio"/> Quite challenging</p> <p><input type="radio"/> Extremely challenging</p> <p>(2018 Grade 4, 8, and 12)</p>	N/A	D	To keep student burden low, this item was dropped.

2019 Operational and Pilot Grade 4, 8, and 12 Debrief Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p>5. How much time pressure did you feel when taking this test?</p> <p><small>VTE03661</small></p> <ul style="list-style-type: none"> <input type="radio"/> No time pressure at all <input type="radio"/> A little bit of time pressure <input type="radio"/> Some time pressure <input type="radio"/> Quite a bit of time pressure <input type="radio"/> A lot of time pressure <p>(2018 Grade 4, 8, and 12)</p>	N/A	D	To keep student burden low, this item was dropped.

**Appendix K-1b: Operational and Pilot Student Debrief Grades 4, 8,
and 12**

1. How easy or difficult was this test?

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

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

Appendix K-1c: Summary of Changes Operational Grade 4 Core

2019 Operational Grade 4 Core Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right;"><small>V1E240387</small></p> <p>6. Are you Hispanic or Latino? Select one or more answer choices.</p> <ul style="list-style-type: none"> <input type="radio"/> No, I am not Hispanic or Latino. <input type="radio"/> Yes, I am Mexican, Mexican American, or Chicano. <input type="radio"/> Yes, I am Puerto Rican or Puerto Rican American. <input type="radio"/> Yes, I am Cuban or Cuban American. <input type="radio"/> Yes, I am from some other Hispanic or Latino background. <p>(2018 Grade 4)</p>	<p style="text-align: right;"><small>V1E240387</small></p> <p>3. Are you Hispanic or Latino? Select one or more answer choices.</p> <ul style="list-style-type: none"> <input type="radio"/> No, I am not Hispanic or Latino. <input type="radio"/> Yes, I am Mexican, Mexican American, or Chicano. <input type="radio"/> Yes, I am Puerto Rican or Puerto Rican American. <input type="radio"/> Yes, I am Cuban or Cuban American. <input type="radio"/> Yes, I am from some other Hispanic or Latino background. <p>Issue: Race/Ethnicity</p>	NC	N/A
<p style="text-align: right;"><small>V1E240388</small></p> <p>7. Which of the following best describes you? Select one or more answer choices.</p> <ul style="list-style-type: none"> <input type="radio"/> White <input type="radio"/> Black or African American <input type="radio"/> Asian <input type="radio"/> American Indian or Alaska Native <input type="radio"/> Native Hawaiian or other Pacific Islander <p>(2018 Grade 4)</p>	<p style="text-align: right;"><small>V1E240388</small></p> <p>4. Which of the following best describes you? Select one or more answer choices.</p> <ul style="list-style-type: none"> <input type="radio"/> White <input type="radio"/> Black or African American <input type="radio"/> Asian <input type="radio"/> American Indian or Alaska Native <input type="radio"/> Native Hawaiian or other Pacific Islander <p>Issue: Race/Ethnicity</p>	NC	N/A
<p style="text-align: right;"><small>V1E240186</small></p> <p>8. About how many books are there in your home?</p> <ul style="list-style-type: none"> <input type="radio"/> Few (0–10) <input type="radio"/> Enough to fill one shelf (11–25) <input type="radio"/> Enough to fill one bookcase (26–100) <input type="radio"/> Enough to fill several bookcases (more than 100) <p>(2018 Grade 4)</p>	<p style="text-align: right;"><small>V1E240186</small></p> <p>5. About how many books are there in your home?</p> <ul style="list-style-type: none"> <input type="radio"/> Few (0–10) <input type="radio"/> Enough to fill one shelf (11–25) <input type="radio"/> Enough to fill one bookcase (26–100) <input type="radio"/> Enough to fill several bookcases (more than 100) <p>Issue: Socioeconomic Status</p>	NC	N/A

2019 Operational Grade 4 Core Student

Previous item	2019 item	D/A/ R/NC+	Rationale																																																								
<p>9. Do you have any of the following in your home? Select one answer choice on each row.</p> <p style="text-align: right; font-size: small;">VH27104</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 10%; text-align: center;">Yes</th> <th style="width: 10%; text-align: center;">No</th> <th style="width: 20%;"></th> </tr> </thead> <tbody> <tr> <td>a. Access to the Internet</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">YH271105</td> </tr> <tr> <td>b. Clothes dryer just for your family</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH336756</td> </tr> <tr> <td>c. Dishwasher</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH336759</td> </tr> <tr> <td>d. Your own bedroom</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">YH336762</td> </tr> <tr> <td>e. A desktop or laptop computer (including Chromebooks) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH591976</td> </tr> <tr> <td>f. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">YH271110</td> </tr> <tr> <td>g. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">YH271112</td> </tr> </tbody> </table> <p>(2018 Grade 4)</p>		Yes	No		a. Access to the Internet	<input type="radio"/>	<input type="radio"/>	YH271105	b. Clothes dryer just for your family	<input type="radio"/>	<input type="radio"/>	VH336756	c. Dishwasher	<input type="radio"/>	<input type="radio"/>	VH336759	d. Your own bedroom	<input type="radio"/>	<input type="radio"/>	YH336762	e. A desktop or laptop computer (including Chromebooks) that you can use	<input type="radio"/>	<input type="radio"/>	VH591976	f. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	<input type="radio"/>	<input type="radio"/>	YH271110	g. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	<input type="radio"/>	<input type="radio"/>	YH271112	<p>6. Do you have any of the following in your home? Select one answer choice on each row.</p> <p style="text-align: right; font-size: small;">VH27104</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 10%; text-align: center;">Yes</th> <th style="width: 10%; text-align: center;">No</th> <th style="width: 20%;"></th> </tr> </thead> <tbody> <tr> <td>a. Access to the Internet</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">YH271105</td> </tr> <tr> <td>b. Your own bedroom</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH336762</td> </tr> <tr> <td>c. A desktop or laptop computer (including Chromebooks) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH591976</td> </tr> <tr> <td>d. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">YH271110</td> </tr> <tr> <td>e. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">YH271112</td> </tr> </tbody> </table> <p>Issue: Socioeconomic Status</p>		Yes	No		a. Access to the Internet	<input type="radio"/>	<input type="radio"/>	YH271105	b. Your own bedroom	<input type="radio"/>	<input type="radio"/>	VH336762	c. A desktop or laptop computer (including Chromebooks) that you can use	<input type="radio"/>	<input type="radio"/>	VH591976	d. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	<input type="radio"/>	<input type="radio"/>	YH271110	e. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	<input type="radio"/>	<input type="radio"/>	YH271112	R	Due to concerns about content relevance and to keep student burden low, sub-items b and c were dropped.
	Yes	No																																																									
a. Access to the Internet	<input type="radio"/>	<input type="radio"/>	YH271105																																																								
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<p>10. How often do you use the Internet for homework at home?</p> <p style="text-align: right; font-size: small;">VH34591</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Almost every day <input type="radio"/> Every day <p>(2018 Grade 4)</p>	<p>7. How often do you use the Internet for homework at home?</p> <p style="text-align: right; font-size: small;">VH34591</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Almost every day <input type="radio"/> Every day <p>Issue: Technology Use</p>	NC	N/A																																																								
<p>11. How many days were you absent from school in the last month?</p> <p style="text-align: right; font-size: small;">VH240190</p> <ul style="list-style-type: none"> <input type="radio"/> None <input type="radio"/> 1 or 2 days <input type="radio"/> 3 or 4 days <input type="radio"/> 5 to 10 days <input type="radio"/> More than 10 days <p>(2018 Grade 4)</p>	<p>8. How many days were you absent from school in the last month?</p> <p style="text-align: right; font-size: small;">VH240190</p> <ul style="list-style-type: none"> <input type="radio"/> None <input type="radio"/> 1 or 2 days <input type="radio"/> 3 or 4 days <input type="radio"/> 5 to 10 days <input type="radio"/> More than 10 days <p>Issue: School Climate</p>	NC	N/A																																																								
<p>12. How often do you talk about things you have studied in school with someone in your family?</p> <p style="text-align: right; font-size: small;">VH240189</p> <ul style="list-style-type: none"> <input type="radio"/> Never or hardly ever <input type="radio"/> Once every few weeks <input type="radio"/> About once a week <input type="radio"/> Two or three times a week <input type="radio"/> Every day <p>(2018 Grade 4)</p>	<p>9. How often do you talk about things you have studied in school with someone in your family?</p> <p style="text-align: right; font-size: small;">VH240189</p> <ul style="list-style-type: none"> <input type="radio"/> Never or hardly ever <input type="radio"/> Once every few weeks <input type="radio"/> About once a week <input type="radio"/> Two or three times a week <input type="radio"/> Every day <p>Issue: Socioeconomic Status</p>	NC	N/A																																																								

2019 Operational Grade 4 Core Student

Previous item	2019 item	D/A/R/NC+	Rationale																																																								
<p>13. Do any of the following people live in your home? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 10%;">Yes</th> <th style="width: 10%;">No</th> <th style="width: 20%;"></th> </tr> </thead> <tbody> <tr> <td>a. Mother</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: small;">VH271143</td> </tr> <tr> <td>b. Stepmother</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: small;">VH271146</td> </tr> <tr> <td>c. Foster mother or other female legal guardian</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: small;">VH271147</td> </tr> <tr> <td>d. Father</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: small;">VH271148</td> </tr> <tr> <td>e. Stepfather</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: small;">VH271149</td> </tr> <tr> <td>f. Foster father or other male legal guardian</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: small;">VH271150</td> </tr> </tbody> </table> <p style="margin-top: 10px;">(2018 Grade 4)</p>		Yes	No		a. Mother	<input type="radio"/>	<input type="radio"/>	VH271143	b. Stepmother	<input type="radio"/>	<input type="radio"/>	VH271146	c. Foster mother or other female legal guardian	<input type="radio"/>	<input type="radio"/>	VH271147	d. Father	<input type="radio"/>	<input type="radio"/>	VH271148	e. Stepfather	<input type="radio"/>	<input type="radio"/>	VH271149	f. Foster father or other male legal guardian	<input type="radio"/>	<input type="radio"/>	VH271150	<p>10. Do any of the following people live in your home? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 10%;">Yes</th> <th style="width: 10%;">No</th> <th style="width: 20%;"></th> </tr> </thead> <tbody> <tr> <td>a. Mother</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: small;">VH271143</td> </tr> <tr> <td>b. Stepmother</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: small;">VH271146</td> </tr> <tr> <td>c. Foster mother or other female legal guardian</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: small;">VH271147</td> </tr> <tr> <td>d. Father</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: small;">VH271148</td> </tr> <tr> <td>e. Stepfather</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: small;">VH271149</td> </tr> <tr> <td>f. Foster father or other male legal guardian</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: small;">VH271150</td> </tr> </tbody> </table> <p style="margin-top: 10px;">Issue: Socioeconomic Status</p>		Yes	No		a. Mother	<input type="radio"/>	<input type="radio"/>	VH271143	b. Stepmother	<input type="radio"/>	<input type="radio"/>	VH271146	c. Foster mother or other female legal guardian	<input type="radio"/>	<input type="radio"/>	VH271147	d. Father	<input type="radio"/>	<input type="radio"/>	VH271148	e. Stepfather	<input type="radio"/>	<input type="radio"/>	VH271149	f. Foster father or other male legal guardian	<input type="radio"/>	<input type="radio"/>	VH271150	NC	N/A
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2019 Operational Grade 4 Core Student

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Appendix K-1d: Operational Grade 4 Core

1. How easy or difficult was this test?

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

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

3. 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.

4. 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

5. 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)

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

	Yes	No	
a. Access to the Internet	<input type="radio"/> A	<input type="radio"/> B	VH271105
b. Your own bedroom	<input type="radio"/> A	<input type="radio"/> B	VH336762
c. A desktop or laptop computer (including Chromebooks) that you can use	<input type="radio"/> A	<input type="radio"/> B	VH591976
d. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	<input type="radio"/> A	<input type="radio"/> B	VH271110
e. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	<input type="radio"/> A	<input type="radio"/> B	VH271112

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

- A Never
- B About once or twice a month
- C About once or twice a week
- D Almost every day
- E Every day

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

- A None
- B 1 or 2 days
- C 3 or 4 days
- D 5 to 10 days
- E More than 10 days

9. 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

10. 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

11. 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

12. 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

13. 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

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

15. 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.	(A)	(B)	(C)	(D)	(E)	VH271370
b. I paid attention and resisted distractions.	(A)	(B)	(C)	(D)	(E)	VH271372
c. I stayed on task without reminders from my teacher.	(A)	(B)	(C)	(D)	(E)	VH271374
d. I paid attention in class even when I was not interested.	(A)	(B)	(C)	(D)	(E)	VH271375

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.

	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

Appendix K-1e: Summary of Changes Pilot Grade 4 Core

2019 Pilot Grade 4 Core Student

Previous item	2019 item	D/A/ R/NC+	Rationale																																																								
<p style="text-align: right; font-size: small;">VH240387</p> <p>6. Are you Hispanic or Latino? Select one or more answer choices.</p> <ul style="list-style-type: none"> <input type="radio"/> No, I am not Hispanic or Latino. <input type="radio"/> Yes, I am Mexican, Mexican American, or Chicano. <input type="radio"/> Yes, I am Puerto Rican or Puerto Rican American. <input type="radio"/> Yes, I am Cuban or Cuban American. <input type="radio"/> Yes, I am from some other Hispanic or Latino background. <p>(2017 Grade 4)</p>	<p style="text-align: right; font-size: small;">VH240387</p> <p>13. Are you Hispanic or Latino? Select one or more answer choices.</p> <ul style="list-style-type: none"> <input type="radio"/> No, I am not Hispanic or Latino. <input type="radio"/> Yes, I am Mexican, Mexican American, or Chicano. <input type="radio"/> Yes, I am Puerto Rican or Puerto Rican American. <input type="radio"/> Yes, I am Cuban or Cuban American. <input type="radio"/> Yes, I am from some other Hispanic or Latino background. <p>Issue: Race/Ethnicity</p>	NC	N/A																																																								
<p style="text-align: right; font-size: small;">VH240388</p> <p>7. Which of the following best describes you? Select one or more answer choices.</p> <ul style="list-style-type: none"> <input type="radio"/> White <input type="radio"/> Black or African American <input type="radio"/> Asian <input type="radio"/> American Indian or Alaska Native <input type="radio"/> Native Hawaiian or other Pacific Islander <p>(2017 Grade 4)</p>	<p style="text-align: right; font-size: small;">VH240388</p> <p>14. Which of the following best describes you? Select one or more answer choices.</p> <ul style="list-style-type: none"> <input type="radio"/> White <input type="radio"/> Black or African American <input type="radio"/> Asian <input type="radio"/> American Indian or Alaska Native <input type="radio"/> Native Hawaiian or other Pacific Islander <p>Issue: Race/Ethnicity</p>	NC	N/A																																																								
<p style="text-align: right; font-size: small;">VH240186</p> <p>8. About how many books are there in your home?</p> <ul style="list-style-type: none"> <input type="radio"/> Few (0–10) <input type="radio"/> Enough to fill one shelf (11–25) <input type="radio"/> Enough to fill one bookcase (26–100) <input type="radio"/> Enough to fill several bookcases (more than 100) <p>(2017 Grade 4)</p>	<p style="text-align: right; font-size: small;">VH240186</p> <p>1. About how many books are there in your home?</p> <ul style="list-style-type: none"> <input type="radio"/> Few (0–10) <input type="radio"/> Enough to fill one shelf (11–25) <input type="radio"/> Enough to fill one bookcase (26–100) <input type="radio"/> Enough to fill several bookcases (more than 100) <p>Issue: Socioeconomic Status</p>	NC	N/A																																																								
<p style="text-align: right; font-size: small;">VH271104</p> <p>9. Do you have any of the following in your home? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th></th> <th style="text-align: center;">Yes</th> <th style="text-align: center;">No</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Access to the Internet</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271105</td> </tr> <tr> <td>b. Clothes dryer just for your family</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH336758</td> </tr> <tr> <td>c. Dishwasher</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH336759</td> </tr> <tr> <td>d. Your own bedroom</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH336762</td> </tr> <tr> <td>e. A desktop or laptop computer (including Chromebooks) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH591976</td> </tr> <tr> <td>f. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271110</td> </tr> <tr> <td>g. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271112</td> </tr> </tbody> </table> <p>(2017 Grade 4)</p>		Yes	No		a. Access to the Internet	<input type="radio"/>	<input type="radio"/>	VH271105	b. Clothes dryer just for your family	<input type="radio"/>	<input type="radio"/>	VH336758	c. Dishwasher	<input type="radio"/>	<input type="radio"/>	VH336759	d. Your own bedroom	<input type="radio"/>	<input type="radio"/>	VH336762	e. A desktop or laptop computer (including Chromebooks) that you can use	<input type="radio"/>	<input type="radio"/>	VH591976	f. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	<input type="radio"/>	<input type="radio"/>	VH271110	g. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	<input type="radio"/>	<input type="radio"/>	VH271112	<p style="text-align: right; font-size: small;">VH880711</p> <p>2. Do you have any of the following in your home? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th></th> <th style="text-align: center;">Yes</th> <th style="text-align: center;">No</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Access to the Internet</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271105</td> </tr> <tr> <td>b. Your own bedroom</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH336762</td> </tr> <tr> <td>c. Your own desktop or laptop computer (including Chromebooks)</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH53088</td> </tr> <tr> <td>d. Your own tablet (for example, Surface Pro, iPad, or Kindle Fire)</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH53090</td> </tr> <tr> <td>e. Your own smartphone (for example, iPhone, Samsung Galaxy, or HTC One)</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH53089</td> </tr> </tbody> </table> <p>Issue: Socioeconomic Status</p>		Yes	No		a. Access to the Internet	<input type="radio"/>	<input type="radio"/>	VH271105	b. Your own bedroom	<input type="radio"/>	<input type="radio"/>	VH336762	c. 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<p style="text-align: right; font-size: small;">VH35491</p> <p>10. How often do you use the Internet for homework at home?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Almost every day <input type="radio"/> Every day <p>(2017 Grade 4)</p>	<p style="text-align: right; font-size: small;">VH35491</p> <p>3. How often do you use the Internet for homework at home?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Almost every day <input type="radio"/> Every day <p>Issue: Technology Use</p>	NC	N/A																																																								
<p style="text-align: right; font-size: small;">VH240190</p> <p>11. How many days were you absent from school in the last month?</p> <ul style="list-style-type: none"> <input type="radio"/> None <input type="radio"/> 1 or 2 days <input type="radio"/> 3 or 4 days <input type="radio"/> 5 to 10 days <input type="radio"/> More than 10 days <p>(2017 Grade 4)</p>	<p style="text-align: right; font-size: small;">VH240190</p> <p>4. How many days were you absent from school in the last month?</p> <ul style="list-style-type: none"> <input type="radio"/> None <input type="radio"/> 1 or 2 days <input type="radio"/> 3 or 4 days <input type="radio"/> 5 to 10 days <input type="radio"/> More than 10 days <p>Issue: School Climate</p>	NC	N/A																																																								
<p style="text-align: right; font-size: small;">VH240189</p> <p>12. How often do you talk about things you have studied in school with someone in your family?</p> <ul style="list-style-type: none"> <input type="radio"/> Never or hardly ever <input type="radio"/> Once every few weeks <input type="radio"/> About once a week <input type="radio"/> Two or three times a week <input type="radio"/> Every day <p>(2017 Grade 4)</p>	<p style="text-align: right; font-size: small;">VH240189</p> <p>5. How often do you talk about things you have studied in school with someone in your family?</p> <ul style="list-style-type: none"> <input type="radio"/> Never or hardly ever <input type="radio"/> Once every few weeks <input type="radio"/> About once a week <input type="radio"/> Two or three times a week <input type="radio"/> Every day <p>Issue: Socioeconomic Status</p>	NC	N/A																																																								
<p style="text-align: right; font-size: small;">VH271144</p> <p>13. Do any of the following people live in your home? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th></th> <th style="text-align: center;">Yes</th> <th style="text-align: center;">No</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Mother</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271145</td> </tr> <tr> <td>b. Stepmother</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271146</td> </tr> <tr> <td>c. Foster mother or other female legal guardian</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271147</td> </tr> <tr> <td>d. Father</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271148</td> </tr> <tr> <td>e. Stepfather</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271149</td> </tr> <tr> <td>f. Foster father or other male legal guardian</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271150</td> </tr> </tbody> </table> <p>(2017 Grade 4)</p>		Yes	No		a. Mother	<input type="radio"/>	<input type="radio"/>	VH271145	b. Stepmother	<input type="radio"/>	<input type="radio"/>	VH271146	c. Foster mother or other female legal guardian	<input type="radio"/>	<input type="radio"/>	VH271147	d. Father	<input type="radio"/>	<input type="radio"/>	VH271148	e. Stepfather	<input type="radio"/>	<input type="radio"/>	VH271149	f. Foster father or other male legal guardian	<input type="radio"/>	<input type="radio"/>	VH271150	<p style="text-align: right; font-size: small;">VH271144</p> <p>6. Do any of the following people live in your home? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th></th> <th style="text-align: center;">Yes</th> <th style="text-align: center;">No</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Mother</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271145</td> </tr> <tr> <td>b. Stepmother</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271146</td> </tr> <tr> <td>c. Foster mother or other female legal guardian</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271147</td> </tr> <tr> <td>d. Father</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271148</td> </tr> <tr> <td>e. Stepfather</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271149</td> </tr> <tr> <td>f. Foster father or other male legal guardian</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271150</td> </tr> </tbody> </table> <p>Issue: Socioeconomic Status</p>		Yes	No		a. Mother	<input type="radio"/>	<input type="radio"/>	VH271145	b. Stepmother	<input type="radio"/>	<input type="radio"/>	VH271146	c. Foster mother or other female legal guardian	<input type="radio"/>	<input type="radio"/>	VH271147	d. Father	<input type="radio"/>	<input type="radio"/>	VH271148	e. Stepfather	<input type="radio"/>	<input type="radio"/>	VH271149	f. Foster father or other male legal guardian	<input type="radio"/>	<input type="radio"/>	VH271150	NC	N/A
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<p style="text-align: right; font-size: small;">VH59166</p> <p>14. In this school year, how often did you use a laptop or desktop computer (including Chromebooks) during your classes at school?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> In some classes</p> <p><input type="radio"/> In about half of the classes</p> <p><input type="radio"/> In more than half of the classes</p> <p><input type="radio"/> In all or almost all classes</p> <p>(2017 Grade 4)</p>	<p style="text-align: right; font-size: small;">VH59169</p> <p>7. In this school year, how often did you use a laptop or desktop computer (including Chromebooks) during your classes at school?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> In some classes</p> <p><input type="radio"/> In about half of the classes</p> <p><input type="radio"/> In more than half of the classes</p> <p><input type="radio"/> In all or almost all classes</p> <p>Issue: Technology Use</p>	NC	N/A																																																																						
<p style="text-align: right; font-size: small;">VH271276</p> <p>15. In this school year, how often did you use a tablet (for example, Surface Pro, iPad, Kindle Fire) during your classes at school?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> In some classes</p> <p><input type="radio"/> In about half of the classes</p> <p><input type="radio"/> In more than half of the classes</p> <p><input type="radio"/> In all or almost all classes</p> <p>(2017 Grade 4)</p>	<p style="text-align: right; font-size: small;">VH271276</p> <p>8. In this school year, how often did you use a tablet (for example, Surface Pro, iPad, Kindle Fire) during your classes at school?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> In some classes</p> <p><input type="radio"/> In about half of the classes</p> <p><input type="radio"/> In more than half of the classes</p> <p><input type="radio"/> In all or almost all classes</p> <p>Issue: Technology Use</p>	NC	N/A																																																																						
<p style="text-align: right; font-size: small;">VH271337</p> <p>16. How much does each of the following statements describe a person like you? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Not at all like me</th> <th>A little bit like me</th> <th>Somewhat like me</th> <th>Quite a bit like me</th> <th>Very much like me</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. I finish whatever I begin.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271338</td> </tr> <tr> <td>b. I try very hard even after making mistakes.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271339</td> </tr> <tr> <td>c. I keep working hard even when I feel like quitting.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271342</td> </tr> <tr> <td>d. 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b. I try very hard even after making mistakes.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH271339																																																																			
c. I keep working hard even when I feel like quitting.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH271342																																																																			
d. I keep trying to improve myself, even when it takes a long time to get there.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH271345																																																																			
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d. I keep trying to improve myself, even when it takes a long time to get there.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH733144																																																																			

2019 Pilot Grade 4 Core Student

Previous item	2019 item	D/A/R/NC+	Rationale																																																																						
<p>17. In this school year, how often have you done each of the following? Select one answer choice on each row. VH271367</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Never or hardly ever</th> <th>Less than half of the time</th> <th>About half of the time</th> <th>More than half of the time</th> <th>All or almost all of the time</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. I started working on assignments right away rather than waiting until the last minute.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH271370</td> </tr> <tr> <td>b. I paid attention and resisted distractions.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH271372</td> </tr> <tr> <td>c. I stayed on task without reminders from my teacher.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH271374</td> </tr> <tr> <td>d. I paid attention in class even when I was not interested.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH271375</td> </tr> </tbody> </table> <p>(2017 Grade 4)</p>		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.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH271370	b. I paid attention and resisted distractions.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH271372	c. I stayed on task without reminders from my teacher.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH271374	d. I paid attention in class even when I was not interested.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH271375	<p>10. In this school year, how often have you done each of the following? Select one answer choice on each row. VH271367</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Never or hardly ever</th> <th>Less than half of the time</th> <th>About half of the time</th> <th>More than half of the time</th> <th>All or almost all of the time</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. I started working on assignments right away rather than waiting until the last minute.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH271370</td> </tr> <tr> <td>b. I paid attention and resisted distractions.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH271372</td> </tr> <tr> <td>c. I stayed on task without reminders from my teacher.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH271374</td> </tr> <tr> <td>d. I paid attention in class even when I was not interested.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH271375</td> </tr> </tbody> </table> <p>Issue: Grit</p>		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.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH271370	b. I paid attention and resisted distractions.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH271372	c. I stayed on task without reminders from my teacher.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH271374	d. I paid attention in class even when I was not interested.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH271375	<p>NC</p>	<p>N/A</p>
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<p>18. How much does each of the following statements describe a person like you? Select one answer choice on each row. VH73149</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Not at all like me</th> <th>A little bit like me</th> <th>Somewhat like me</th> <th>Quite a bit like me</th> <th>Very much like me</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. I like complex problems more than easy problems.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH73150</td> </tr> <tr> <td>b. I like activities that challenge my thinking abilities.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH73152</td> </tr> <tr> <td>c. I enjoy situations where I will have to think about something.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH73153</td> </tr> <tr> <td>d. I enjoy thinking about new solutions to problems.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH73154</td> </tr> </tbody> </table> <p>(2017 Grade 4)</p>		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.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH73150	b. I like activities that challenge my thinking abilities.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH73152	c. I enjoy situations where I will have to think about something.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH73153	d. I enjoy thinking about new solutions to problems.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH73154	<p>11. How much does each of the following statements describe you? Select one answer choice on each row. VH73149</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Not at all like me</th> <th>A little bit like me</th> <th>Somewhat like me</th> <th>Quite a bit like me</th> <th>Very much like me</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. I like complex problems more than easy problems.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH73150</td> </tr> <tr> <td>b. I like activities that challenge my thinking abilities.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH73151</td> </tr> <tr> <td>c. I enjoy situations where I will have to think about something.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH73155</td> </tr> <tr> <td>d. I enjoy thinking about new solutions to problems.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH73154</td> </tr> </tbody> </table> <p>Issue: Desire for Learning</p>		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.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH73150	b. I like activities that challenge my thinking abilities.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH73151	c. I enjoy situations where I will have to think about something.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH73155	d. I enjoy thinking about new solutions to problems.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH73154	<p>R</p>	<p>The stem of this item was revised for clarity.</p>
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2019 Pilot Grade 4 Core Student

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<p>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. VH271934</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 15%;"></th> <th style="width: 10%;">Never or hardly ever</th> <th style="width: 10%;">Less than half of the time</th> <th style="width: 10%;">About half of the time</th> <th style="width: 10%;">More than half of the time</th> <th style="width: 10%;">All or almost all of the time</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>a. I felt awkward and out of place at school.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VH271942</td> </tr> <tr> <td>b. 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<p>20. Write the ZIP code of your home address in the box. VH254029</p> <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <input style="width: 20px; height: 20px; margin-right: 5px;" type="text"/> <input style="width: 20px; height: 20px; margin-right: 5px;" type="text"/> <input style="width: 20px; height: 20px; margin-right: 5px;" type="text"/> <input style="width: 20px; height: 20px; margin-right: 5px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> </div> <p>(2017 Grade 4)</p>	<p>N/A</p>	D	<p>Due to the time burden associated with completing this item and to keep student burden low, this item was dropped.</p>																																																																													

Appendix K-1f: Pilot Grade 4 Core

1. 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)

2. 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. Your own desktop or laptop computer (including Chromebooks)	Ⓐ	Ⓑ	VH853088
d. Your own tablet (for example, Surface Pro, iPad, or Kindle Fire)	Ⓐ	Ⓑ	VH853090
e. Your own smartphone (for example, iPhone, Samsung Galaxy, or HTC One)	Ⓐ	Ⓑ	VH853089

3. 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

4. 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

5. 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

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

	Yes	No	
a. Mother	<input type="radio"/> A	<input type="radio"/> B	VH271145
b. Stepmother	<input type="radio"/> A	<input type="radio"/> B	VH271146
c. Foster mother or other female legal guardian	<input type="radio"/> A	<input type="radio"/> B	VH271147
d. Father	<input type="radio"/> A	<input type="radio"/> B	VH271148
e. Stepfather	<input type="radio"/> A	<input type="radio"/> B	VH271149
f. Foster father or other male legal guardian	<input type="radio"/> A	<input type="radio"/> B	VH271150

7. In this school year, how often did you use a **laptop or desktop computer** (including Chromebooks) during your classes at school?

- A Never
- B In some classes
- C In about half of the classes
- D In more than half of the classes
- E In all or almost all classes

8. In this school year, how often did you use a **tablet** (for example, Surface Pro, iPad, Kindle Fire) during your classes at school?

- A Never
- B In some classes
- C In about half of the classes
- D In more than half of the classes
- E In all or almost all classes

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

10. 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.	(A)	(B)	(C)	(D)	(E)	VH271370
b. I paid attention and resisted distractions.	(A)	(B)	(C)	(D)	(E)	VH271372
c. I stayed on task without reminders from my teacher.	(A)	(B)	(C)	(D)	(E)	VH271374
d. I paid attention in class even when I was not interested.	(A)	(B)	(C)	(D)	(E)	VH271375

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	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

12. 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.	(A)	(B)	(C)	(D)	(E)	VH271942
b. I felt happy at school.	(A)	(B)	(C)	(D)	(E)	VH271944
c. I felt that I learned something that I can use in my daily life.	(A)	(B)	(C)	(D)	(E)	VH336903
d. I worried about crime and violence at my school.	(A)	(B)	(C)	(D)	(E)	VH271940
e. I felt my teachers treated me fairly.	(A)	(B)	(C)	(D)	(E)	VH853117
f. I felt safe on my way to or from school.	(A)	(B)	(C)	(D)	(E)	VH853118

13. 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.

14. 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

Appendix K-1g: Spiral Map Grade 4 Core

Accnum	Grade	Grade 4 OMB PDF Sequence Number	Number of Grade 4 booklets item appears in	Grade 4 booklets item appears in
VH240186	4, 8, 12	01_00	3	1, 2, 3
VH880711	4, 8, 12	02_00	2	1, 2
VH271105	4, 8, 12	02_01	2	1, 2
VH336762	4, 8, 12	02_02	2	1, 2
VH853088	4, 8, 12	02_03	2	1, 2
VH853090	4, 8, 12	02_04	2	1, 2
VH853089	4, 8, 12	02_05	2	1, 2
VH354591	4, 8, 12	03_00	3	1, 2, 3
VH240190	4, 8, 12	04_00	1	3
VH240189	4, 8, 12	05_00	1	3
VH271144	4, 8, 12	06_00	2	1, 2
VH271145	4, 8, 12	06_01	2	1, 2
VH271146	4, 8, 12	06_02	2	1, 2
VH271147	4, 8, 12	06_03	2	1, 2
VH271148	4, 8, 12	06_04	2	1, 2
VH271149	4, 8, 12	06_05	2	1, 2
VH271150	4, 8, 12	06_06	2	1, 2
VH591969	4, 8, 12	07_00	1	3
VH271276	4, 8, 12	08_00	1	3
VH733141	4, 8, 12	09_00	2	1, 2
VH733142	4, 8, 12	09_01	2	1, 2
VH733143	4, 8, 12	09_02	2	1, 2
VH733145	4, 8, 12	09_03	2	1, 2
VH733144	4, 8, 12	09_04	2	1, 2
VH271367	4, 8, 12	10_00	2	1, 2
VH271370	4, 8, 12	10_01	2	1, 2
VH271372	4, 8, 12	10_02	2	1, 2
VH271374	4, 8, 12	10_03	2	1, 2
VH271375	4, 8, 12	10_04	2	1, 2

VH271944	Grade	Grade 4 OMB PDF Sequence Number	Number of Grade 4 booklets item appears in	Grade 4 booklets item appears in
VH733149	4, 8, 12	11_00	1	3
VH733150	4, 8, 12	11_01	1	3
VH733151	4, 8, 12	11_02	1	3
VH733155	4, 8, 12	11_03	1	3
VH733154	4, 8, 12	11_04	1	3
VH271934	4, 8, 12	12_00	2	1, 2
VH271942	4, 8, 12	12_01	2	1, 2
VH336903	4, 8, 12	12_02	2	1, 2
VH271940	4, 8, 12	12_03	2	1, 2
VH853117	4, 8, 12	12_04	2	1, 2
VH853118	4, 8, 12	12_05	2	1, 2
VH240387	4, 8, 12	13_00	3	1, 2, 3
VH240388	4, 8, 12	14_00	3	1, 2, 3

Appendix K-1h: Summary of Changes Operational Grade 8 Core

2019 Operational Grade 8 Core Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right; font-size: small;">VIE20387</p> <p>6. Are you Hispanic or Latino? Select one or more answer choices.</p> <ul style="list-style-type: none"> <input type="radio"/> No, I am not Hispanic or Latino. <input type="radio"/> Yes, I am Mexican, Mexican American, or Chicano. <input type="radio"/> Yes, I am Puerto Rican or Puerto Rican American. <input type="radio"/> Yes, I am Cuban or Cuban American. <input type="radio"/> Yes, I am from some other Hispanic or Latino background. <p>(2018 Grade 8)</p>	<p style="text-align: right; font-size: small;">VIE20387</p> <p>3. Are you Hispanic or Latino? Select one or more answer choices.</p> <ul style="list-style-type: none"> <input type="radio"/> No, I am not Hispanic or Latino. <input type="radio"/> Yes, I am Mexican, Mexican American, or Chicano. <input type="radio"/> Yes, I am Puerto Rican or Puerto Rican American. <input type="radio"/> Yes, I am Cuban or Cuban American. <input type="radio"/> Yes, I am from some other Hispanic or Latino background. <p>Issue: Race/Ethnicity</p>	NC	N/A
<p style="text-align: right; font-size: small;">VIE20388</p> <p>7. Which of the following best describes you? Select one or more answer choices.</p> <ul style="list-style-type: none"> <input type="radio"/> White <input type="radio"/> Black or African American <input type="radio"/> Asian <input type="radio"/> American Indian or Alaska Native <input type="radio"/> Native Hawaiian or other Pacific Islander <p>(2018 Grade 8)</p>	<p style="text-align: right; font-size: small;">VIE20388</p> <p>4. Which of the following best describes you? Select one or more answer choices.</p> <ul style="list-style-type: none"> <input type="radio"/> White <input type="radio"/> Black or African American <input type="radio"/> Asian <input type="radio"/> American Indian or Alaska Native <input type="radio"/> Native Hawaiian or other Pacific Islander <p>Issue: Race/Ethnicity</p>	NC	N/A
<p style="text-align: right; font-size: small;">VIE20186</p> <p>8. About how many books are there in your home?</p> <ul style="list-style-type: none"> <input type="radio"/> Few (0–10) <input type="radio"/> Enough to fill one shelf (11–25) <input type="radio"/> Enough to fill one bookcase (26–100) <input type="radio"/> Enough to fill several bookcases (more than 100) <p>(2018 Grade 8)</p>	<p style="text-align: right; font-size: small;">VIE20186</p> <p>5. About how many books are there in your home?</p> <ul style="list-style-type: none"> <input type="radio"/> Few (0–10) <input type="radio"/> Enough to fill one shelf (11–25) <input type="radio"/> Enough to fill one bookcase (26–100) <input type="radio"/> Enough to fill several bookcases (more than 100) <p>Issue: Socioeconomic Status</p>	NC	N/A

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

2019 Operational Grade 8 Core Student

Previous item	2019 item	D/A/R/NC+	Rationale																																																								
<p>9. Do you have any of the following in your home? Select one answer choice on each row.</p> <p style="text-align: right; font-size: small;">VH271104</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Yes</th> <th style="text-align: center;">No</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Access to the Internet</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271105</td> </tr> <tr> <td>b. Clothes dryer just for your family</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH336756</td> </tr> <tr> <td>c. Dishwasher</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH336759</td> </tr> <tr> <td>d. Your own bedroom</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH336762</td> </tr> <tr> <td>e. A desktop or laptop computer (including Chromebooks) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH591976</td> </tr> <tr> <td>f. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271110</td> </tr> <tr> <td>g. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271112</td> </tr> </tbody> </table> <p>(2018 Grade 8)</p>		Yes	No		a. Access to the Internet	<input type="radio"/>	<input type="radio"/>	VH271105	b. Clothes dryer just for your family	<input type="radio"/>	<input type="radio"/>	VH336756	c. Dishwasher	<input type="radio"/>	<input type="radio"/>	VH336759	d. Your own bedroom	<input type="radio"/>	<input type="radio"/>	VH336762	e. A desktop or laptop computer (including Chromebooks) that you can use	<input type="radio"/>	<input type="radio"/>	VH591976	f. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	<input type="radio"/>	<input type="radio"/>	VH271110	g. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	<input type="radio"/>	<input type="radio"/>	VH271112	<p>6. Do you have any of the following in your home? Select one answer choice on each row.</p> <p style="text-align: right; font-size: small;">VH271104</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Yes</th> <th style="text-align: center;">No</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Access to the Internet</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271105</td> </tr> <tr> <td>b. Your own bedroom</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH336762</td> </tr> <tr> <td>c. A desktop or laptop computer (including Chromebooks) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH591976</td> </tr> <tr> <td>d. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271110</td> </tr> <tr> <td>e. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271112</td> </tr> </tbody> </table> <p>Issue: Socioeconomic Status</p>		Yes	No		a. Access to the Internet	<input type="radio"/>	<input type="radio"/>	VH271105	b. Your own bedroom	<input type="radio"/>	<input type="radio"/>	VH336762	c. A desktop or laptop computer (including Chromebooks) that you can use	<input type="radio"/>	<input type="radio"/>	VH591976	d. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	<input type="radio"/>	<input type="radio"/>	VH271110	e. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	<input type="radio"/>	<input type="radio"/>	VH271112	R	<p>Due to concerns about content relevance and to keep student burden low, sub-items b and c were dropped.</p>
	Yes	No																																																									
a. Access to the Internet	<input type="radio"/>	<input type="radio"/>	VH271105																																																								
b. Clothes dryer just for your family	<input type="radio"/>	<input type="radio"/>	VH336756																																																								
c. Dishwasher	<input type="radio"/>	<input type="radio"/>	VH336759																																																								
d. Your own bedroom	<input type="radio"/>	<input type="radio"/>	VH336762																																																								
e. A desktop or laptop computer (including Chromebooks) that you can use	<input type="radio"/>	<input type="radio"/>	VH591976																																																								
f. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	<input type="radio"/>	<input type="radio"/>	VH271110																																																								
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d. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	<input type="radio"/>	<input type="radio"/>	VH271110																																																								
e. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	<input type="radio"/>	<input type="radio"/>	VH271112																																																								
<p>10. How often do you use the Internet for homework at home?</p> <p style="text-align: right; font-size: small;">VH354591</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Almost every day <input type="radio"/> Every day <p>(2018 Grade 8)</p>	<p>7. How often do you use the Internet for homework at home?</p> <p style="text-align: right; font-size: small;">VH354591</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Almost every day <input type="radio"/> Every day <p>Issue: Technology Use</p>	NC	N/A																																																								
<p>11. How many days were you absent from school in the last month?</p> <p style="text-align: right; font-size: small;">VH240190</p> <ul style="list-style-type: none"> <input type="radio"/> None <input type="radio"/> 1 or 2 days <input type="radio"/> 3 or 4 days <input type="radio"/> 5 to 10 days <input type="radio"/> More than 10 days <p>(2018 Grade 8)</p>	<p>8. How many days were you absent from school in the last month?</p> <p style="text-align: right; font-size: small;">VH240190</p> <ul style="list-style-type: none"> <input type="radio"/> None <input type="radio"/> 1 or 2 days <input type="radio"/> 3 or 4 days <input type="radio"/> 5 to 10 days <input type="radio"/> More than 10 days <p>Issue: School Climate</p>	NC	N/A																																																								
<p>12. How often do you talk about things you have studied in school with someone in your family?</p> <p style="text-align: right; font-size: small;">VH240189</p> <ul style="list-style-type: none"> <input type="radio"/> Never or hardly ever <input type="radio"/> Once every few weeks <input type="radio"/> About once a week <input type="radio"/> Two or three times a week <input type="radio"/> Every day <p>(2018 Grade 8)</p>	<p>9. How often do you talk about things you have studied in school with someone in your family?</p> <p style="text-align: right; font-size: small;">VH240189</p> <ul style="list-style-type: none"> <input type="radio"/> Never or hardly ever <input type="radio"/> Once every few weeks <input type="radio"/> About once a week <input type="radio"/> Two or three times a week <input type="radio"/> Every day <p>Issue: Socioeconomic Status</p>	NC	N/A																																																								

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

2019 Operational Grade 8 Core Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right; font-size: small;">VH240192</p> <p>13. How far in school did your mother go?</p> <ul style="list-style-type: none"> <input type="radio"/> She did not finish high school. <input type="radio"/> She graduated from high school. <input type="radio"/> She had some education after high school. <input type="radio"/> She graduated from college. <input type="radio"/> I don't know. <p>(2018 Grade 8)</p>	<p style="text-align: right; font-size: small;">VH240192</p> <p>10. How far in school did your mother go?</p> <ul style="list-style-type: none"> <input type="radio"/> She did not finish high school. <input type="radio"/> She graduated from high school. <input type="radio"/> She had some education after high school. <input type="radio"/> She graduated from college. <input type="radio"/> I don't know. <p>Issue: Socioeconomic Status</p>	NC	N/A
<p style="text-align: right; font-size: small;">VH240193</p> <p>14. How far in school did your father go?</p> <ul style="list-style-type: none"> <input type="radio"/> He did not finish high school. <input type="radio"/> He graduated from high school. <input type="radio"/> He had some education after high school. <input type="radio"/> He graduated from college. <input type="radio"/> I don't know. <p>(2018 Grade 8)</p>	<p style="text-align: right; font-size: small;">VH240193</p> <p>11. How far in school did your father go?</p> <ul style="list-style-type: none"> <input type="radio"/> He did not finish high school. <input type="radio"/> He graduated from high school. <input type="radio"/> He had some education after high school. <input type="radio"/> He graduated from college. <input type="radio"/> I don't know. <p>Issue: Socioeconomic Status</p>	NC	N/A
<p style="text-align: right; font-size: small;">VH33676</p> <p>15. Does your mother work?</p> <ul style="list-style-type: none"> <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> I don't know. <p>(2018 Grade 8)</p>	<p style="text-align: right; font-size: small;">VH33676</p> <p>12. Does your mother work?</p> <ul style="list-style-type: none"> <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> I don't know. <p>Issue: Socioeconomic Status</p>	NC	N/A
<p style="text-align: right; font-size: small;">VH33679</p> <p>16. Does your father work?</p> <ul style="list-style-type: none"> <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> I don't know. <p>(2018 Grade 8)</p>	<p style="text-align: right; font-size: small;">VH33679</p> <p>13. Does your father work?</p> <ul style="list-style-type: none"> <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> I don't know. <p>Issue: Socioeconomic Status</p>	NC	N/A

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

2019 Operational Grade 8 Core Student

Previous item	2019 item	D/A/R/NC+	Rationale																																																																						
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+ This column indicates whether the item was dropped (D), added (A), revised (R), or there was no change (NC).

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2019 Operational Grade 8 Core Student

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<p>26. Write the ZIP code of your home address in the box. VH236903</p> <div style="border: 1px solid black; padding: 5px; width: fit-content;"> □ □ □ □ □ □ </div> <p>(2018 Grade 8)</p>	<p>N/A</p>	D	<p>Due to the time burden associated with completing this item and to keep student burden low, this item was dropped.</p>																																																								

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

2019 Operational Grade 8 Core Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p>2. Are you taking an art course now, or have you taken an art course this year?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p>(2016 Grade 8)</p>	<p>21. Are you taking an art course this school year (for example, drawing, painting, or studio art)?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p>Issue: Educational Experiences</p>	A	This item was adapted from the arts questionnaire to assess student participation in arts coursework.

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

Appendix K-1i: Operational Grade 8 Core

1. How easy or difficult was this test?

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

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

3. 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.

4. 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

5. 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)

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

	Yes	No	
a. Access to the Internet	<input type="radio"/> A	<input type="radio"/> B	VH271105
b. Your own bedroom	<input type="radio"/> A	<input type="radio"/> B	VH336762
c. A desktop or laptop computer (including Chromebooks) that you can use	<input type="radio"/> A	<input type="radio"/> B	VH591976
d. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	<input type="radio"/> A	<input type="radio"/> B	VH271110
e. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	<input type="radio"/> A	<input type="radio"/> B	VH271112

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

- A Never
- B About once or twice a month
- C About once or twice a week
- D Almost every day
- E Every day

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

- A None
- B 1 or 2 days
- C 3 or 4 days
- D 5 to 10 days
- E More than 10 days

9. 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

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

- Ⓐ 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.

11. 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.

12. Does **your mother** work?

- Ⓐ Yes
- Ⓑ No
- Ⓒ I don't know.

13. Does **your father** work?

- Ⓐ Yes
- Ⓑ No
- Ⓒ I don't know.

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

	Yes	No	
a. Mother	<input type="radio"/> A	<input type="radio"/> B	VH271145
b. Stepmother	<input type="radio"/> A	<input type="radio"/> B	VH271146
c. Foster mother or other female legal guardian	<input type="radio"/> A	<input type="radio"/> B	VH271147
d. Father	<input type="radio"/> A	<input type="radio"/> B	VH271148
e. Stepfather	<input type="radio"/> A	<input type="radio"/> B	VH271149
f. Foster father or other male legal guardian	<input type="radio"/> A	<input type="radio"/> B	VH271150

15. In this school year, how often did you use a **laptop or desktop computer** (including Chromebooks) during your classes at school?

- A Never
- B In some classes
- C In about half of the classes
- D In more than half of the classes
- E In all or almost all classes

16. In this school year, how often did you use a **tablet** (for example, Surface Pro, iPad, Kindle Fire) during your classes at school?

- A Never
- B In some classes
- C In about half of the classes
- D In more than half of the classes
- E In all or almost all classes

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

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

19. 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.	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH271370
b. I paid attention and resisted distractions.	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH271372
c. I stayed on task without reminders from my teacher.	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH271374
d. I paid attention in class even when I was not interested.	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH271375

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.	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH271942
b. I felt happy at school.	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH271944
c. I felt that I learned something that I can use in my daily life.	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH336903

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

- A Yes
 B No

Appendix K-1j: Summary of Changes Pilot Grade 8 Core

2019 Pilot Grade 8 Core Student

Previous item	2019 item	D/A/R/NC+	Rationale																																																								
<p style="text-align: right; font-size: small;">VH240387</p> <p>6. Are you Hispanic or Latino? Select one or more answer choices.</p> <ul style="list-style-type: none"> <input type="radio"/> No, I am not Hispanic or Latino. <input type="radio"/> Yes, I am Mexican, Mexican American, or Chicano. <input type="radio"/> Yes, I am Puerto Rican or Puerto Rican American. <input type="radio"/> Yes, I am Cuban or Cuban American. <input type="radio"/> Yes, I am from some other Hispanic or Latino background. <p>(2017 Grade 8)</p>	<p style="text-align: right; font-size: small;">VH240387</p> <p>20. Are you Hispanic or Latino? Select one or more answer choices.</p> <ul style="list-style-type: none"> <input type="radio"/> No, I am not Hispanic or Latino. <input type="radio"/> Yes, I am Mexican, Mexican American, or Chicano. <input type="radio"/> Yes, I am Puerto Rican or Puerto Rican American. <input type="radio"/> Yes, I am Cuban or Cuban American. <input type="radio"/> Yes, I am from some other Hispanic or Latino background. <p>Issue: Race/Ethnicity</p>	NC	N/A																																																								
<p style="text-align: right; font-size: small;">VH240388</p> <p>7. Which of the following best describes you? Select one or more answer choices.</p> <ul style="list-style-type: none"> <input type="radio"/> White <input type="radio"/> Black or African American <input type="radio"/> Asian <input type="radio"/> American Indian or Alaska Native <input type="radio"/> Native Hawaiian or other Pacific Islander <p>(2017 Grade 8)</p>	<p style="text-align: right; font-size: small;">VH240388</p> <p>21. Which of the following best describes you? Select one or more answer choices.</p> <ul style="list-style-type: none"> <input type="radio"/> White <input type="radio"/> Black or African American <input type="radio"/> Asian <input type="radio"/> American Indian or Alaska Native <input type="radio"/> Native Hawaiian or other Pacific Islander <p>Issue: Race/Ethnicity</p>	NC	N/A																																																								
<p style="text-align: right; font-size: small;">VH240186</p> <p>8. About how many books are there in your home?</p> <ul style="list-style-type: none"> <input type="radio"/> Few (0–10) <input type="radio"/> Enough to fill one shelf (11–25) <input type="radio"/> Enough to fill one bookcase (26–100) <input type="radio"/> Enough to fill several bookcases (more than 100) <p>(2017 Grade 8)</p>	<p style="text-align: right; font-size: small;">VH240186</p> <p>1. About how many books are there in your home?</p> <ul style="list-style-type: none"> <input type="radio"/> Few (0–10) <input type="radio"/> Enough to fill one shelf (11–25) <input type="radio"/> Enough to fill one bookcase (26–100) <input type="radio"/> Enough to fill several bookcases (more than 100) <p>Issue: Socioeconomic Status</p>	NC	N/A																																																								
<p style="text-align: right; font-size: small;">VH271084</p> <p>9. Do you have any of the following in your home? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th></th> <th style="text-align: center;">Yes</th> <th style="text-align: center;">No</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Access to the Internet</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271105</td> </tr> <tr> <td>b. Clothes dryer just for your family</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH336756</td> </tr> <tr> <td>c. Dishwasher</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH336759</td> </tr> <tr> <td>d. Your own bedroom</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH336762</td> </tr> <tr> <td>e. A desktop or laptop computer (including Chromebooks) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH51976</td> </tr> <tr> <td>f. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271110</td> </tr> <tr> <td>g. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271112</td> </tr> </tbody> </table> <p>(2017 Grade 8)</p>		Yes	No		a. Access to the Internet	<input type="radio"/>	<input type="radio"/>	VH271105	b. Clothes dryer just for your family	<input type="radio"/>	<input type="radio"/>	VH336756	c. Dishwasher	<input type="radio"/>	<input type="radio"/>	VH336759	d. Your own bedroom	<input type="radio"/>	<input type="radio"/>	VH336762	e. A desktop or laptop computer (including Chromebooks) that you can use	<input type="radio"/>	<input type="radio"/>	VH51976	f. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	<input type="radio"/>	<input type="radio"/>	VH271110	g. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	<input type="radio"/>	<input type="radio"/>	VH271112	<p style="text-align: right; font-size: small;">VH880711</p> <p>2. Do you have any of the following in your home? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th></th> <th style="text-align: center;">Yes</th> <th style="text-align: center;">No</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Access to the Internet</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271105</td> </tr> <tr> <td>b. Your own bedroom</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH336762</td> </tr> <tr> <td>c. Your own desktop or laptop computer (including Chromebooks)</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH53088</td> </tr> <tr> <td>d. Your own tablet (for example, Surface Pro, iPad, or Kindle Fire)</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH53090</td> </tr> <tr> <td>e. Your own smartphone (for example, iPhone, Samsung Galaxy, or HTC One)</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH53089</td> </tr> </tbody> </table> <p>Issue: Socioeconomic Status</p>		Yes	No		a. Access to the Internet	<input type="radio"/>	<input type="radio"/>	VH271105	b. Your own bedroom	<input type="radio"/>	<input type="radio"/>	VH336762	c. Your own desktop or laptop computer (including Chromebooks)	<input type="radio"/>	<input type="radio"/>	VH53088	d. Your own tablet (for example, Surface Pro, iPad, or Kindle Fire)	<input type="radio"/>	<input type="radio"/>	VH53090	e. Your own smartphone (for example, iPhone, Samsung Galaxy, or HTC One)	<input type="radio"/>	<input type="radio"/>	VH53089	R	<p>Sub-items b and c were dropped to keep student burden low, and sub-items e, f, and g were revised to examine performance of alternative item wording.</p>
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2019 Pilot Grade 8 Core Student

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<p style="text-align: right; font-size: small;">VHS4591</p> <p>10. How often do you use the Internet for homework at home?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Almost every day <input type="radio"/> Every day <p>(2017 Grade 8)</p>	<p style="text-align: right; font-size: small;">VHS4591</p> <p>3. How often do you use the Internet for homework at home?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Almost every day <input type="radio"/> Every day <p>Issue: Technology Use</p>	NC	N/A
<p style="text-align: right; font-size: small;">VHS4090</p> <p>11. How many days were you absent from school in the last month?</p> <ul style="list-style-type: none"> <input type="radio"/> None <input type="radio"/> 1 or 2 days <input type="radio"/> 3 or 4 days <input type="radio"/> 5 to 10 days <input type="radio"/> More than 10 days <p>(2017 Grade 8)</p>	<p style="text-align: right; font-size: small;">VHS4090</p> <p>4. How many days were you absent from school in the last month?</p> <ul style="list-style-type: none"> <input type="radio"/> None <input type="radio"/> 1 or 2 days <input type="radio"/> 3 or 4 days <input type="radio"/> 5 to 10 days <input type="radio"/> More than 10 days <p>Issue: School Climate</p>	NC	N/A
<p style="text-align: right; font-size: small;">VHS40189</p> <p>12. How often do you talk about things you have studied in school with someone in your family?</p> <ul style="list-style-type: none"> <input type="radio"/> Never or hardly ever <input type="radio"/> Once every few weeks <input type="radio"/> About once a week <input type="radio"/> Two or three times a week <input type="radio"/> Every day <p>(2017 Grade 8)</p>	<p style="text-align: right; font-size: small;">VHS40189</p> <p>5. How often do you talk about things you have studied in school with someone in your family?</p> <ul style="list-style-type: none"> <input type="radio"/> Never or hardly ever <input type="radio"/> Once every few weeks <input type="radio"/> About once a week <input type="radio"/> Two or three times a week <input type="radio"/> Every day <p>Issue: Socioeconomic Status</p>	NC	N/A
<p style="text-align: right; font-size: small;">VHS40192</p> <p>13. How far in school did your mother go?</p> <ul style="list-style-type: none"> <input type="radio"/> She did not finish high school. <input type="radio"/> She graduated from high school. <input type="radio"/> She had some education after high school. <input type="radio"/> She graduated from college. <input type="radio"/> I don't know. <p>(2017 Grade 8)</p>	<p style="text-align: right; font-size: small;">VHS40192</p> <p>6. How far in school did your mother go?</p> <ul style="list-style-type: none"> <input type="radio"/> She did not finish high school. <input type="radio"/> She graduated from high school. <input type="radio"/> She had some education after high school. <input type="radio"/> She graduated from college. <input type="radio"/> I don't know. <p>Issue: Socioeconomic Status</p>	NC	N/A

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<p style="text-align: right; font-size: small;">VH240193</p> <p>14. How far in school did your father go?</p> <ul style="list-style-type: none"> <input type="radio"/> He did not finish high school. <input type="radio"/> He graduated from high school. <input type="radio"/> He had some education after high school. <input type="radio"/> He graduated from college. <input type="radio"/> I don't know. <p>(2017 Grade 8)</p>	<p style="text-align: right; font-size: small;">VH240193</p> <p>7. How far in school did your father go?</p> <ul style="list-style-type: none"> <input type="radio"/> He did not finish high school. <input type="radio"/> He graduated from high school. <input type="radio"/> He had some education after high school. <input type="radio"/> He graduated from college. <input type="radio"/> I don't know. <p>Issue: Socioeconomic Status</p>	NC	N/A																																																								
<p style="text-align: right; font-size: small;">VH33676</p> <p>15. Does your mother work?</p> <ul style="list-style-type: none"> <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> I don't know. <p>(2017 Grade 8)</p>	<p style="text-align: right; font-size: small;">VH33676</p> <p>8. Does your mother work?</p> <ul style="list-style-type: none"> <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> I don't know. <p>Issue: Socioeconomic Status</p>	NC	N/A																																																								
<p style="text-align: right; font-size: small;">VH33679</p> <p>16. Does your father work?</p> <ul style="list-style-type: none"> <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> I don't know. <p>(2017 Grade 8)</p>	<p style="text-align: right; font-size: small;">VH33679</p> <p>9. Does your father work?</p> <ul style="list-style-type: none"> <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> I don't know. <p>Issue: Socioeconomic Status</p>	NC	N/A																																																								
<p style="text-align: right; font-size: small;">VH27114</p> <p>17. Do any of the following people live in your home? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th style="text-align: center;">Yes</th> <th style="text-align: center;">No</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Mother</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271145</td> </tr> <tr> <td>b. Stepmother</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271146</td> </tr> <tr> <td>c. Foster mother or other female legal guardian</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271147</td> </tr> <tr> <td>d. Father</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271148</td> </tr> <tr> <td>e. Stepfather</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271149</td> </tr> <tr> <td>f. Foster father or other male legal guardian</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271150</td> </tr> </tbody> </table> <p>(2017 Grade 8)</p>		Yes	No		a. Mother	<input type="radio"/>	<input type="radio"/>	VH271145	b. Stepmother	<input type="radio"/>	<input type="radio"/>	VH271146	c. Foster mother or other female legal guardian	<input type="radio"/>	<input type="radio"/>	VH271147	d. Father	<input type="radio"/>	<input type="radio"/>	VH271148	e. Stepfather	<input type="radio"/>	<input type="radio"/>	VH271149	f. Foster father or other male legal guardian	<input type="radio"/>	<input type="radio"/>	VH271150	<p style="text-align: right; font-size: small;">VH27114</p> <p>10. Do any of the following people live in your home? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th style="text-align: center;">Yes</th> <th style="text-align: center;">No</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Mother</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271145</td> </tr> <tr> <td>b. Stepmother</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271146</td> </tr> <tr> <td>c. Foster mother or other female legal guardian</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271147</td> </tr> <tr> <td>d. Father</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271148</td> </tr> <tr> <td>e. Stepfather</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271149</td> </tr> <tr> <td>f. Foster father or other male legal guardian</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271150</td> </tr> </tbody> </table> <p>Issue: Socioeconomic Status</p>		Yes	No		a. Mother	<input type="radio"/>	<input type="radio"/>	VH271145	b. Stepmother	<input type="radio"/>	<input type="radio"/>	VH271146	c. Foster mother or other female legal guardian	<input type="radio"/>	<input type="radio"/>	VH271147	d. Father	<input type="radio"/>	<input type="radio"/>	VH271148	e. Stepfather	<input type="radio"/>	<input type="radio"/>	VH271149	f. Foster father or other male legal guardian	<input type="radio"/>	<input type="radio"/>	VH271150	NC	N/A
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<p style="text-align: right; font-size: small;">VH591869</p> <p>18. In this school year, how often did you use a laptop or desktop computer (including Chromebooks) during your classes at school?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> In some classes <input type="radio"/> In about half of the classes <input type="radio"/> In more than half of the classes <input type="radio"/> In all or almost all classes <p>(2017 Grade 8)</p>	<p style="text-align: right; font-size: small;">VH591869</p> <p>11. In this school year, how often did you use a laptop or desktop computer (including Chromebooks) during your classes at school?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> In some classes <input type="radio"/> In about half of the classes <input type="radio"/> In more than half of the classes <input type="radio"/> In all or almost all classes <p>Issue: Technology Use</p>	NC	N/A																																																								

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<p style="text-align: right; font-size: small;">VH271276</p> <p>19. In this school year, how often did you use a tablet (for example, Surface Pro, iPad, Kindle Fire) during your classes at school?</p> <p>Ⓐ Never</p> <p>Ⓑ In some classes</p> <p>Ⓒ In about half of the classes</p> <p>Ⓓ In more than half of the classes</p> <p>Ⓔ In all or almost all classes</p> <p>(2017 Grade 8)</p>	<p style="text-align: right; font-size: small;">VH271276</p> <p>12. In this school year, how often did you use a tablet (for example, Surface Pro, iPad, Kindle Fire) during your classes at school?</p> <p>Ⓐ Never</p> <p>Ⓑ In some classes</p> <p>Ⓒ In about half of the classes</p> <p>Ⓓ In more than half of the classes</p> <p>Ⓔ In all or almost all classes</p> <p>Issue: Technology Use</p>	NC	N/A																																																																						
<p style="text-align: right; font-size: small;">VH271337</p> <p>20. How much does each of the following statements describe a person like you? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Not at all like me</th> <th>A little bit like me</th> <th>Somewhat like me</th> <th>Quite a bit like me</th> <th>Very much like me</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. I finish whatever I begin.</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="text-align: center;">Ⓔ</td> <td style="font-size: x-small;">VH271338</td> </tr> <tr> <td>b. I try very hard even after making mistakes.</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="text-align: center;">Ⓔ</td> <td style="font-size: x-small;">VH271339</td> </tr> <tr> <td>c. I keep working hard even when I feel like quitting.</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="text-align: center;">Ⓔ</td> <td style="font-size: x-small;">VH271342</td> </tr> <tr> <td>d. I keep trying to improve myself, even when it takes a long time to get there.</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="text-align: center;">Ⓔ</td> <td style="font-size: x-small;">VH271345</td> </tr> </tbody> </table> <p>(2017 Grade 8)</p>		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.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH271338	b. I try very hard even after making mistakes.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH271339	c. I keep working hard even when I feel like quitting.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH271342	d. I keep trying to improve myself, even when it takes a long time to get there.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH271345	<p style="text-align: right; font-size: small;">VH733141</p> <p>13. How much does each of the following statements describe you? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Not at all like me</th> <th>A little bit like me</th> <th>Somewhat like me</th> <th>Quite a bit like me</th> <th>Very much like me</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. I finish whatever I begin.</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="text-align: center;">Ⓔ</td> <td style="font-size: x-small;">VH733143</td> </tr> <tr> <td>b. I try very hard even after making mistakes.</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="text-align: center;">Ⓔ</td> <td style="font-size: x-small;">VH733143</td> </tr> <tr> <td>c. I keep working hard even when I feel like quitting.</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="text-align: center;">Ⓔ</td> <td style="font-size: x-small;">VH733145</td> </tr> <tr> <td>d. I keep trying to improve myself, even when it takes a long time to get there.</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="text-align: center;">Ⓔ</td> <td style="font-size: x-small;">VH733144</td> </tr> </tbody> </table> <p>Issue: Grit</p>		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.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH733143	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	R	<p>The stem of this item was revised for clarity.</p>
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+ This column indicates whether the item was dropped (D), added (A), revised (R), or there was no change (NC).

2019 Pilot Grade 8 Core Student

Previous item	2019 item	D/A/R/NC+	Rationale																																																																													
<p>22. How much does each of the following statements describe a person like you? Select one answer choice on each row. VH271749</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Not at all like me</th> <th>A little bit like me</th> <th>Somewhat like me</th> <th>Quite a bit like me</th> <th>Very much like me</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. I like complex problems more than easy problems.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VH271750</td> </tr> <tr> <td>b. I like activities that challenge my thinking abilities.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VH271752</td> </tr> <tr> <td>c. I enjoy situations where I will have to think about something.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VH271753</td> </tr> <tr> <td>d. I enjoy thinking about new solutions to problems.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VH271756</td> </tr> </tbody> </table> <p>(2017 Grade 8)</p>		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.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH271750	b. I like activities that challenge my thinking abilities.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH271752	c. I enjoy situations where I will have to think about something.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH271753	d. I enjoy thinking about new solutions to problems.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH271756	<p>15. How much does each of the following statements describe you? Select one answer choice on each row. VH733149</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Not at all like me</th> <th>A little bit like me</th> <th>Somewhat like me</th> <th>Quite a bit like me</th> <th>Very much like me</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. I like complex problems more than easy problems.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VH733150</td> </tr> <tr> <td>b. I like activities that challenge my thinking abilities.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VH733151</td> </tr> <tr> <td>c. I enjoy situations where I will have to think about something.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VH733155</td> </tr> <tr> <td>d. I enjoy thinking about new solutions to problems.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VH733154</td> </tr> </tbody> </table> <p>Issue: Desire for Learning</p>		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.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH733150	b. I like activities that challenge my thinking abilities.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH733151	c. I enjoy situations where I will have to think about something.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH733155	d. I enjoy thinking about new solutions to problems.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH733154	R	The stem of this item was revised for clarity.							
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I felt that I learned something that I can use in my daily life.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VH336903</td> </tr> </tbody> </table> <p>(2017 Grade 8)</p>		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.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH271942	b. I felt happy at school.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH271944	c. I felt that I learned something that I can use in my daily life.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH336903	<p>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. VH271934</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Never or hardly ever</th> <th>Less than half of the time</th> <th>About half of the time</th> <th>More than half of the time</th> <th>All or almost all of the time</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. I felt awkward and out of place at school.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VH271942</td> </tr> <tr> <td>b. I felt happy at school.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VH271944</td> </tr> <tr> <td>c. I felt that I learned something that I can use in my daily life.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VH336903</td> </tr> <tr> <td>d. I worried about crime and violence at my school.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VH271940</td> </tr> <tr> <td>e. I felt my teachers treated me fairly.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VH853117</td> </tr> <tr> <td>f. I felt safe on my way to or from school.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VH853118</td> </tr> </tbody> </table> <p>Issue: School Climate</p>		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.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH271942	b. I felt happy at school.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH271944	c. I felt that I learned something that I can use in my daily life.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH336903	d. I worried about crime and violence at my school.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH271940	e. I felt my teachers treated me fairly.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH853117	f. I felt safe on my way to or from school.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH853118	R	New sub-items (d, e, and f) were added to expand measurement of this content.
	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.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH271942																																																																										
b. I felt happy at school.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH271944																																																																										
c. I felt that I learned something that I can use in my daily life.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH336903																																																																										
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c. I felt that I learned something that I can use in my daily life.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH336903																																																																										
d. I worried about crime and violence at my school.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH271940																																																																										
e. I felt my teachers treated me fairly.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH853117																																																																										
f. I felt safe on my way to or from school.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH853118																																																																										
<p>24. Write the ZIP code of your home address in the box. VH254028</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> □□□□□ </div> <p>(2017 Grade 8)</p>	N/A	D	Due to the time burden associated with completing this item and to keep student burden low,																																																																													

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

2019 Pilot Grade 8 Core Student

Previous item	2019 item	D/A/ R/NC+	Rationale
			this item was dropped.
N/A	<p style="text-align: right;"><small>VB852895</small></p> <p>17. Are you taking a language course other than English this school year (for example, Spanish, French, or Chinese)?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p>Issue: Educational Experiences</p>	A	This item was added to assess student involvement in coursework on languages (other than English).
<p style="text-align: right;"><small>LD09716</small></p> <p>2. Are you taking an art course now, or have you taken an art course this year?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p>(2016 grade 8)</p>	<p style="text-align: right;"><small>VB852900</small></p> <p>18. Are you taking an art course this school year (for example, drawing, painting, or studio art)?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p>Issue: Educational Experiences</p>	A	This item was added to assess student involvement in art coursework.
N/A	<p style="text-align: right;"><small>VB852901</small></p> <p>19. Are you taking a music course this school year (for example, choir, band, or orchestra)?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p>Issue: Educational Experiences</p>	A	This item was added to assess student involvement in music coursework.

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

Appendix K-1k: Pilot Grade 8 Core

1. 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)

2. 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. Your own desktop or laptop computer (including Chromebooks)	Ⓐ	Ⓑ	VH853088
d. Your own tablet (for example, Surface Pro, iPad, or Kindle Fire)	Ⓐ	Ⓑ	VH853090
e. Your own smartphone (for example, iPhone, Samsung Galaxy, or HTC One)	Ⓐ	Ⓑ	VH853089

3. 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

4. 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

5. 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

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

- Ⓐ 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.

7. 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.

8. Does **your mother** work?

- Ⓐ Yes
- Ⓑ No
- Ⓒ I don't know.

9. Does **your father** work?

- Ⓐ Yes
- Ⓑ No
- Ⓒ I don't know.

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

	Yes	No	
a. Mother	<input type="radio"/> A	<input type="radio"/> B	VH271145
b. Stepmother	<input type="radio"/> A	<input type="radio"/> B	VH271146
c. Foster mother or other female legal guardian	<input type="radio"/> A	<input type="radio"/> B	VH271147
d. Father	<input type="radio"/> A	<input type="radio"/> B	VH271148
e. Stepfather	<input type="radio"/> A	<input type="radio"/> B	VH271149
f. Foster father or other male legal guardian	<input type="radio"/> A	<input type="radio"/> B	VH271150

11. In this school year, how often did you use a **laptop or desktop computer** (including Chromebooks) during your classes at school?

- A Never
- B In some classes
- C In about half of the classes
- D In more than half of the classes
- E In all or almost all classes

12. In this school year, how often did you use a **tablet** (for example, Surface Pro, iPad, Kindle Fire) during your classes at school?

- A Never
- B In some classes
- C In about half of the classes
- D In more than half of the classes
- E In all or almost all classes

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

14. 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.	(A)	(B)	(C)	(D)	(E)	VH271370
b. I paid attention and resisted distractions.	(A)	(B)	(C)	(D)	(E)	VH271372
c. I stayed on task without reminders from my teacher.	(A)	(B)	(C)	(D)	(E)	VH271374
d. I paid attention in class even when I was not interested.	(A)	(B)	(C)	(D)	(E)	VH271375

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.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	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

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.

	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.	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH271942
b. I felt happy at school.	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH271944
c. I felt that I learned something that I can use in my daily life.	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH336903
d. I worried about crime and violence at my school.	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH271940
e. I felt my teachers treated me fairly.	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH853117
f. I felt safe on my way to or from school.	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH853118

17. Are you taking a language course other than English this school year (for example, Spanish, French, or Chinese)?

- A Yes
 B No

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

- A Yes
 B No

19. Are you taking a music course this school year (for example, choir, band, or orchestra)?

- Ⓐ Yes
- Ⓑ No

20. 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.

21. 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

Appendix K-11: Spiral Map Grade 8 Core

Accnum	Grade	Grade 8 OMB PDF Sequence Number	Number of Grade 8 booklets item appears in	Grade 8 booklets item appears in
VH240186	4, 8, 12	01_00	3	1, 2, 3
VH880711	4, 8, 12	02_00	2	1, 2
VH271105	4, 8, 12	02_01	2	1, 2
VH336762	4, 8, 12	02_02	2	1, 2
VH853088	4, 8, 12	02_03	2	1, 2
VH853090	4, 8, 12	02_04	2	1, 2
VH853089	4, 8, 12	02_05	2	1, 2
VH354591	4, 8, 12	03_00	3	1, 2, 3
VH240190	4, 8, 12	04_00	1	3
VH240189	4, 8, 12	05_00	1	3
VH240192	8, 12	06_00	2	1, 2
VH240193	8, 12	07_00	2	1, 2
VH336776	8, 12	08_00	2	1, 2
VH336779	8, 12	09_00	2	1, 2
VH271144	4, 8, 12	10_00	2	1, 2
VH271145	4, 8, 12	10_01	2	1, 2
VH271146	4, 8, 12	10_02	2	1, 2
VH271147	4, 8, 12	10_03	2	1, 2
VH271148	4, 8, 12	10_04	2	1, 2
VH271149	4, 8, 12	10_05	2	1, 2
VH271150	4, 8, 12	10_06	2	1, 2
VH591969	4, 8, 12	11_00	1	3
VH271276	4, 8, 12	12_00	1	3
VH733141	4, 8, 12	13_00	2	1, 2
VH733142	4, 8, 12	13_01	2	1, 2
VH733143	4, 8, 12	13_02	2	1, 2
VH733145	4, 8, 12	13_03	2	1, 2
VH733144	4, 8, 12	13_04	2	1, 2

Accnum	Grade	Grade 8 OMB PDF Sequence Number	Number of Grade 8 booklets item appears in	Grade 8 booklets item appears in
VH271367	4, 8, 12	14_00	1	3
VH271370	4, 8, 12	14_01	1	3
VH271372	4, 8, 12	14_02	1	3
VH271374	4, 8, 12	14_03	1	3
VH271375	4, 8, 12	14_04	1	3
VH733149	4, 8, 12	15_00	1	3
VH733150	4, 8, 12	15_01	1	3
VH733151	4, 8, 12	15_02	1	3
VH733155	4, 8, 12	15_03	1	3
VH733154	4, 8, 12	15_04	1	3
VH271934	4, 8, 12	16_00	1	3
VH271942	4, 8, 12	16_01	1	3
VH271944	4, 8, 12	16_02	1	3
VH336903	4, 8, 12	16_03	1	3
VH271940	4, 8, 12	16_04	1	3
VH853117	4, 8, 12	16_05	1	3
VH853118	4, 8, 12	16_06	1	3
VH852895	8, 12	17_00	2	1, 2
VH852900	8, 12	18_00	2	1, 2
VH852901	8, 12	19_00	2	1, 2
VH240387	4, 8, 12	20_00	3	1, 2, 3
VH240388	4, 8, 12	21_00	3	1, 2, 3

Appendix K-1m: Summary of Changes Operational Grade 12 Core

2019 Operational Grade 12 Core Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right; font-size: small;">V12.40387</p> <p>5. Are you Hispanic or Latino? Select one or more answer choices.</p> <ul style="list-style-type: none"> <input type="radio"/> No, I am not Hispanic or Latino. <input type="radio"/> Yes, I am Mexican, Mexican American, or Chicano. <input type="radio"/> Yes, I am Puerto Rican or Puerto Rican American. <input type="radio"/> Yes, I am Cuban or Cuban American. <input type="radio"/> Yes, I am from some other Hispanic or Latino background. <p>(2018 Grade 12)</p>	<p style="text-align: right; font-size: small;">V12.40387</p> <p>3. Are you Hispanic or Latino? Select one or more answer choices.</p> <ul style="list-style-type: none"> <input type="radio"/> No, I am not Hispanic or Latino. <input type="radio"/> Yes, I am Mexican, Mexican American, or Chicano. <input type="radio"/> Yes, I am Puerto Rican or Puerto Rican American. <input type="radio"/> Yes, I am Cuban or Cuban American. <input type="radio"/> Yes, I am from some other Hispanic or Latino background. <p>Issue: Race/Ethnicity</p>	NC	N/A
<p style="text-align: right; font-size: small;">V12.40388</p> <p>6. Which of the following best describes you? Select one or more answer choices.</p> <ul style="list-style-type: none"> <input type="radio"/> White <input type="radio"/> Black or African American <input type="radio"/> Asian <input type="radio"/> American Indian or Alaska Native <input type="radio"/> Native Hawaiian or other Pacific Islander <p>(2018 Grade 12)</p>	<p style="text-align: right; font-size: small;">V12.40388</p> <p>4. Which of the following best describes you? Select one or more answer choices.</p> <ul style="list-style-type: none"> <input type="radio"/> White <input type="radio"/> Black or African American <input type="radio"/> Asian <input type="radio"/> American Indian or Alaska Native <input type="radio"/> Native Hawaiian or other Pacific Islander <p>Issue: Race/Ethnicity</p>	NC	N/A
<p style="text-align: right; font-size: small;">V12.40186</p> <p>7. About how many books are there in your home?</p> <ul style="list-style-type: none"> <input type="radio"/> Few (0–10) <input type="radio"/> Enough to fill one shelf (11–25) <input type="radio"/> Enough to fill one bookcase (26–100) <input type="radio"/> Enough to fill several bookcases (more than 100) <p>(2018 Grade 12)</p>	<p style="text-align: right; font-size: small;">V12.40186</p> <p>5. About how many books are there in your home?</p> <ul style="list-style-type: none"> <input type="radio"/> Few (0–10) <input type="radio"/> Enough to fill one shelf (11–25) <input type="radio"/> Enough to fill one bookcase (26–100) <input type="radio"/> Enough to fill several bookcases (more than 100) <p>Issue: Socioeconomic Status</p>	NC	N/A

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

2019 Operational Grade 12 Core Student

Previous item	2019 item	D/A/R/NC+	Rationale																																																								
<p>8. Do you have any of the following in your home? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Yes</th> <th>No</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Access to the Internet</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH271105</td> </tr> <tr> <td>b. Clothes dryer just for your family</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH336754</td> </tr> <tr> <td>c. Dishwasher</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH336753</td> </tr> <tr> <td>d. Your own bedroom</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH336762</td> </tr> <tr> <td>e. A desktop or laptop computer (including Chromebooks) that you can use</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH591976</td> </tr> <tr> <td>f. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH271110</td> </tr> <tr> <td>g. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH271112</td> </tr> </tbody> </table> <p>(2018 Grade 12)</p>		Yes	No		a. Access to the Internet	<input type="radio"/>	<input type="radio"/>	VH271105	b. Clothes dryer just for your family	<input type="radio"/>	<input type="radio"/>	VH336754	c. Dishwasher	<input type="radio"/>	<input type="radio"/>	VH336753	d. Your own bedroom	<input type="radio"/>	<input type="radio"/>	VH336762	e. A desktop or laptop computer (including Chromebooks) that you can use	<input type="radio"/>	<input type="radio"/>	VH591976	f. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	<input type="radio"/>	<input type="radio"/>	VH271110	g. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	<input type="radio"/>	<input type="radio"/>	VH271112	<p>6. Do you have any of the following in your home? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Yes</th> <th>No</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Access to the Internet</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH271105</td> </tr> <tr> <td>b. Your own bedroom</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH336762</td> </tr> <tr> <td>c. A desktop or laptop computer (including Chromebooks) that you can use</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH591976</td> </tr> <tr> <td>d. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH271110</td> </tr> <tr> <td>e. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH271112</td> </tr> </tbody> </table> <p>Issue: Socioeconomic Status</p>		Yes	No		a. Access to the Internet	<input type="radio"/>	<input type="radio"/>	VH271105	b. Your own bedroom	<input type="radio"/>	<input type="radio"/>	VH336762	c. A desktop or laptop computer (including Chromebooks) that you can use	<input type="radio"/>	<input type="radio"/>	VH591976	d. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	<input type="radio"/>	<input type="radio"/>	VH271110	e. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	<input type="radio"/>	<input type="radio"/>	VH271112	R	Due to concerns about content relevance and to keep student burden low, sub-items b and c were dropped.
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<p>9. How often do you use the Internet for homework at home?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Almost every day <input type="radio"/> Every day <p>(2018 Grade 12)</p>	<p>7. How often do you use the Internet for homework at home?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Almost every day <input type="radio"/> Every day <p>Issue: Technology Use</p>	NC	N/A																																																								
<p>10. How many days were you absent from school in the last month?</p> <ul style="list-style-type: none"> <input type="radio"/> None <input type="radio"/> 1 or 2 days <input type="radio"/> 3 or 4 days <input type="radio"/> 5 to 10 days <input type="radio"/> More than 10 days <p>(2018 Grade 12)</p>	<p>8. How many days were you absent from school in the last month?</p> <ul style="list-style-type: none"> <input type="radio"/> None <input type="radio"/> 1 or 2 days <input type="radio"/> 3 or 4 days <input type="radio"/> 5 to 10 days <input type="radio"/> More than 10 days <p>Issue: School Climate</p>	NC	N/A																																																								
<p>11. How often do you talk about things you have studied in school with someone in your family?</p> <ul style="list-style-type: none"> <input type="radio"/> Never or hardly ever <input type="radio"/> Once every few weeks <input type="radio"/> About once a week <input type="radio"/> Two or three times a week <input type="radio"/> Every day <p>(2018 Grade 12)</p>	<p>9. How often do you talk about things you have studied in school with someone in your family?</p> <ul style="list-style-type: none"> <input type="radio"/> Never or hardly ever <input type="radio"/> Once every few weeks <input type="radio"/> About once a week <input type="radio"/> Two or three times a week <input type="radio"/> Every day <p>Issue: Socioeconomic Status</p>	NC	N/A																																																								

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<p style="text-align: right; font-size: small;">VH240192</p> <p>12. How far in school did your mother go?</p> <ul style="list-style-type: none"> <input type="radio"/> She did not finish high school. <input type="radio"/> She graduated from high school. <input type="radio"/> She had some education after high school. <input type="radio"/> She graduated from college. <input type="radio"/> I don't know. <p>(2018 Grade 12)</p>	<p style="text-align: right; font-size: small;">VH240192</p> <p>10. How far in school did your mother go?</p> <ul style="list-style-type: none"> <input type="radio"/> She did not finish high school. <input type="radio"/> She graduated from high school. <input type="radio"/> She had some education after high school. <input type="radio"/> She graduated from college. <input type="radio"/> I don't know. <p>Issue: Socioeconomic Status</p>	NC	N/A
<p style="text-align: right; font-size: small;">VH240193</p> <p>13. How far in school did your father go?</p> <ul style="list-style-type: none"> <input type="radio"/> He did not finish high school. <input type="radio"/> He graduated from high school. <input type="radio"/> He had some education after high school. <input type="radio"/> He graduated from college. <input type="radio"/> I don't know. <p>(2018 Grade 12)</p>	<p style="text-align: right; font-size: small;">VH240193</p> <p>11. How far in school did your father go?</p> <ul style="list-style-type: none"> <input type="radio"/> He did not finish high school. <input type="radio"/> He graduated from high school. <input type="radio"/> He had some education after high school. <input type="radio"/> He graduated from college. <input type="radio"/> I don't know. <p>Issue: Socioeconomic Status</p>	NC	N/A
<p style="text-align: right; font-size: small;">VH336776</p> <p>14. Does your mother work?</p> <ul style="list-style-type: none"> <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> I don't know. <p>(2018 Grade 12)</p>	<p style="text-align: right; font-size: small;">VH336776</p> <p>12. Does your mother work?</p> <ul style="list-style-type: none"> <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> I don't know. <p>Issue: Socioeconomic Status</p>	NC	N/A

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<p style="text-align: right; font-size: small;">VH3678</p> <p>15. What does your mother do for work? Select the choice that most closely describes what she does at work.</p> <table style="width: 100%; border: none;"> <tr> <td><input type="radio"/> Accountant</td> <td><input type="radio"/> Farmer</td> <td><input type="radio"/> Religious worker</td> </tr> <tr> <td><input type="radio"/> Artist</td> <td><input type="radio"/> Firefighter</td> <td><input type="radio"/> Repair technician</td> </tr> <tr> <td><input type="radio"/> Athlete</td> <td><input type="radio"/> Grounds worker</td> <td><input type="radio"/> Salesperson</td> </tr> <tr> <td><input type="radio"/> Carpenter</td> <td><input type="radio"/> Health aide</td> <td><input type="radio"/> Scientist</td> </tr> <tr> <td><input type="radio"/> Cashier</td> <td><input type="radio"/> Helper</td> <td><input type="radio"/> Secretary</td> </tr> <tr> <td><input type="radio"/> Cleaner</td> <td><input type="radio"/> Housekeeper</td> <td><input type="radio"/> Security guard</td> </tr> <tr> <td><input type="radio"/> Clerk</td> <td><input 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<p style="text-align: right; font-size: small;">VH3679</p> <p>16. Does your father work?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input type="radio"/> I don't know.</p> <p>(2018 Grade 12)</p>	<p style="text-align: right; font-size: small;">VH3679</p> <p>13. Does your father work?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input type="radio"/> I don't know.</p> <p>Issue: Socioeconomic Status</p>	<p>NC</p>	<p>N/A</p>																																																															

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<p style="text-align: right; font-size: small;">VH276805</p> <p>17. What does your father do for work? 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<input type="radio"/> Education administrator	<input type="radio"/> Office support	<input type="radio"/> Transportation																																																																
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<input type="radio"/> Factory worker	<input type="radio"/> Receptionist	<input type="radio"/> Other (Please specify): _____																																																																
<p style="text-align: right; font-size: small;">VH271144</p> <p>18. Do any of the following people live in your home? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th></th> <th style="text-align: center;">Yes</th> <th style="text-align: center;">No</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Mother</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271145</td> </tr> <tr> <td>b. Stepmother</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271146</td> </tr> <tr> <td>c. Foster mother or other female legal guardian</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271147</td> </tr> <tr> <td>d. Father</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271148</td> </tr> <tr> <td>e. Stepfather</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271149</td> </tr> <tr> <td>f. Foster father or other male legal guardian</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271150</td> </tr> </tbody> </table> <p>(2018 Grade 12)</p>		Yes	No		a. Mother	<input type="radio"/>	<input type="radio"/>	VH271145	b. Stepmother	<input type="radio"/>	<input type="radio"/>	VH271146	c. Foster mother or other female legal guardian	<input type="radio"/>	<input type="radio"/>	VH271147	d. Father	<input type="radio"/>	<input type="radio"/>	VH271148	e. Stepfather	<input type="radio"/>	<input type="radio"/>	VH271149	f. Foster father or other male legal guardian	<input type="radio"/>	<input type="radio"/>	VH271150	<p style="text-align: right; font-size: small;">VH271144</p> <p>14. Do any of the following people live in your home? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th></th> <th style="text-align: center;">Yes</th> <th style="text-align: center;">No</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Mother</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271145</td> </tr> <tr> <td>b. Stepmother</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271146</td> </tr> <tr> <td>c. Foster mother or other female legal guardian</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271147</td> </tr> <tr> <td>d. Father</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271148</td> </tr> <tr> <td>e. Stepfather</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271149</td> </tr> <tr> <td>f. Foster father or other male legal guardian</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH271150</td> </tr> </tbody> </table> <p>Issue: Socioeconomic Status</p>		Yes	No		a. Mother	<input type="radio"/>	<input type="radio"/>	VH271145	b. Stepmother	<input type="radio"/>	<input type="radio"/>	VH271146	c. Foster mother or other female legal guardian	<input type="radio"/>	<input type="radio"/>	VH271147	d. Father	<input type="radio"/>	<input type="radio"/>	VH271148	e. Stepfather	<input type="radio"/>	<input type="radio"/>	VH271149	f. Foster father or other male legal guardian	<input type="radio"/>	<input type="radio"/>	VH271150	<p>NC</p>	<p>N/A</p>							
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2019 Operational Grade 12 Core Student

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<p style="text-align: right; font-size: small;">VH191969</p> <p>19. In this school year, how often did you use a laptop or desktop computer (including Chromebooks) during your classes at school?</p> <p> <input type="radio"/> Never <input type="radio"/> In some classes <input type="radio"/> In about half of the classes <input type="radio"/> In more than half of the classes <input type="radio"/> In all or almost all classes </p> <p>(2018 Grade 12)</p>	<p style="text-align: right; font-size: small;">VH191969</p> <p>15. In this school year, how often did you use a laptop or desktop computer (including Chromebooks) during your classes at school?</p> <p> <input type="radio"/> Never <input type="radio"/> In some classes <input type="radio"/> In about half of the classes <input type="radio"/> In more than half of the classes <input type="radio"/> In all or almost all classes </p> <p>Issue: Technology Use</p>	NC	N/A																																																																						
<p style="text-align: right; font-size: small;">VH171276</p> <p>20. In this school year, how often did you use a tablet (for example, Surface Pro, iPad, Kindle Fire) during your classes at school?</p> <p> <input type="radio"/> Never <input type="radio"/> In some classes <input type="radio"/> In about half of the classes <input type="radio"/> In more than half of the classes <input type="radio"/> In all or almost all classes </p> <p>(2018 Grade 12)</p>	<p style="text-align: right; font-size: small;">VH171276</p> <p>16. In this school year, how often did you use a tablet (for example, Surface Pro, iPad, Kindle Fire) during your classes at school?</p> <p> <input type="radio"/> Never <input type="radio"/> In some classes <input type="radio"/> In about half of the classes <input type="radio"/> In more than half of the classes <input type="radio"/> In all or almost all classes </p> <p>Issue: Technology Use</p>	NC	N/A																																																																						
<p style="text-align: right; font-size: small;">VH171337</p> <p>21. How much does each of the following statements describe a person like you? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Not at all like me</th> <th>A little bit like me</th> <th>Somewhat like me</th> <th>Quite a bit like me</th> <th>Very much like me</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. I finish whatever I begin.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH171338</td> </tr> <tr> <td>b. 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2019 Operational Grade 12 Core Student

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

2019 Operational Grade 12 Core Student

Previous item	2019 item	D/A/R/NC+	Rationale																																																																																																								
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2019 Operational Grade 12 Core Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right; font-size: small;">VIE24094</p> <p>28. Which of the following best describes your high school program?</p> <p><input type="radio"/> General</p> <p><input type="radio"/> Academic or college preparatory</p> <p><input type="radio"/> Vocational or technical</p> <p>(2018 Grade 12)</p>	<p style="text-align: right; font-size: small;">VIE24094</p> <p>23. Which of the following best describes your high school program?</p> <p><input type="radio"/> General</p> <p><input type="radio"/> Academic or college preparatory</p> <p><input type="radio"/> Vocational or technical</p> <p>Issue: Post High School Preparation</p>	NC	N/A
<p style="text-align: right; font-size: small;">VIE24026</p> <p>29. Write the ZIP code of your home address in the box.</p> <p style="text-align: center;">□□□□□</p> <p>(2018 Grade 12)</p>	<p>N/A</p>	D	<p>Due to the time burden associated with completing this item and to keep student burden low, this item was dropped.</p>
<p style="text-align: right; font-size: small;">LE005110</p> <p>2. Are you taking an art course now, or have you taken an art course this year?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p>(2016 Grade 8)</p>	<p style="text-align: right; font-size: small;">VHS2000</p> <p>21. Are you taking an art course this school year (for example, drawing, painting, or studio art)?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p>Issue: Educational Experiences</p>	A	<p>This item was adapted from the arts questionnaire to assess student participation in arts coursework.</p>

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

Appendix K-1n: Operational Grade 12 Core

1. How easy or difficult was this test?

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

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

3. 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.

4. 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

5. 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)

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

	Yes	No	
a. Access to the Internet	<input type="radio"/> A	<input type="radio"/> B	VH271105
b. Your own bedroom	<input type="radio"/> A	<input type="radio"/> B	VH336762
c. A desktop or laptop computer (including Chromebooks) that you can use	<input type="radio"/> A	<input type="radio"/> B	VH591976
d. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	<input type="radio"/> A	<input type="radio"/> B	VH271110
e. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	<input type="radio"/> A	<input type="radio"/> B	VH271112

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

- A Never
- B About once or twice a month
- C About once or twice a week
- D Almost every day
- E Every day

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

- A None
- B 1 or 2 days
- C 3 or 4 days
- D 5 to 10 days
- E More than 10 days

9. 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

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

- Ⓐ 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.

11. 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.

12. Does **your mother** work?

- Ⓐ Yes
- Ⓑ No
- Ⓒ I don't know.

13. Does **your father** work?

- Ⓐ Yes
- Ⓑ No
- Ⓒ I don't know.

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

	Yes	No	
a. Mother	<input type="radio"/> A	<input type="radio"/> B	VH271145
b. Stepmother	<input type="radio"/> A	<input type="radio"/> B	VH271146
c. Foster mother or other female legal guardian	<input type="radio"/> A	<input type="radio"/> B	VH271147
d. Father	<input type="radio"/> A	<input type="radio"/> B	VH271148
e. Stepfather	<input type="radio"/> A	<input type="radio"/> B	VH271149
f. Foster father or other male legal guardian	<input type="radio"/> A	<input type="radio"/> B	VH271150

15. In this school year, how often did you use a **laptop or desktop computer** (including Chromebooks) during your classes at school?

- A Never
- B In some classes
- C In about half of the classes
- D In more than half of the classes
- E In all or almost all classes

16. In this school year, how often did you use a **tablet** (for example, Surface Pro, iPad, Kindle Fire) during your classes at school?

- A Never
- B In some classes
- C In about half of the classes
- D In more than half of the classes
- E In all or almost all classes

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

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

19. 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.	(A)	(B)	(C)	(D)	(E)	VH271370
b. I paid attention and resisted distractions.	(A)	(B)	(C)	(D)	(E)	VH271372
c. I stayed on task without reminders from my teacher.	(A)	(B)	(C)	(D)	(E)	VH271374
d. I paid attention in class even when I was not interested.	(A)	(B)	(C)	(D)	(E)	VH271375

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

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

- (A) Yes
(B) No

22. 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	<input type="radio"/> A	<input type="radio"/> B	VH740702
b. Submitted the Free Application for Federal Student Aid (FAFSA)	<input type="radio"/> A	<input type="radio"/> B	VH740703
c. Applied to a 2-year college	<input type="radio"/> A	<input type="radio"/> B	VH740704
d. Been accepted to a 2-year college	<input type="radio"/> A	<input type="radio"/> B	VH740705
e. Applied to a 4-year college	<input type="radio"/> A	<input type="radio"/> B	VH740706
f. Been accepted to a 4-year college	<input type="radio"/> A	<input type="radio"/> B	VH740708
g. Applied to a certificate or diploma program at a school that provides occupational training (such as electrician, beautician, mechanic, computer programmer, etc.)	<input type="radio"/> A	<input type="radio"/> B	VH740709
h. Been accepted to a technical training program	<input type="radio"/> A	<input type="radio"/> B	VH740710
i. Talked with a military recruiter	<input type="radio"/> A	<input type="radio"/> B	VH740711
j. Enlisted in the military	<input type="radio"/> A	<input type="radio"/> B	VH740712
k. Applied for a full-time job	<input type="radio"/> A	<input type="radio"/> B	VH740713
l. Been interviewed for a full-time job	<input type="radio"/> A	<input type="radio"/> B	VH740714

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

- A General
- B Academic or college preparatory
- C Vocational or technical

Appendix K-1o: Summary of Changes Operational Grade 4 Reading

2019 Operational Grade 4 Reading Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right; font-size: small;">VH032859</p> <p>1. How often does your teacher ask you to read a book you have chosen yourself?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>(2017 Grade 4)</p>	<p>N/A</p>	<p>D</p>	<p>This item was dropped to keep student burden low and create opportunity for future development.</p>
<p style="text-align: right; font-size: small;">VH032851</p> <p>2. How often does your teacher ask you to discuss new or difficult vocabulary?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>(2017 Grade 4)</p>	<p style="text-align: right; font-size: small;">VH032858</p> <p>17. How often does your teacher ask you to discuss new or difficult vocabulary?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>Issue: Organization of Instruction</p>	<p>NC</p>	<p>N/A</p>
<p style="text-align: right; font-size: small;">VH032862</p> <p>3. For school this year, how often do you work in pairs or small groups to talk about something that you have read?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>(2017 Grade 4)</p>	<p style="text-align: right; font-size: small;">VH032862</p> <p>18. For school this year, how often do you work in pairs or small groups to talk about something that you have read?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>Issue: Organization of Instruction</p>	<p>NC</p>	<p>N/A</p>
<p style="text-align: right; font-size: small;">VH032871</p> <p>4. For school this year, how often do you have a class discussion about something that the class has read?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>(2017 Grade 4)</p>	<p style="text-align: right; font-size: small;">VH032871</p> <p>19. For school this year, how often do you have a class discussion about something that the class has read?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>Issue: Organization of Instruction</p>	<p>NC</p>	<p>N/A</p>

2019 Operational Grade 4 Reading Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right; font-size: small;">V1258771</p> <p>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?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> Once</p> <p><input type="radio"/> Two or three times</p> <p><input type="radio"/> Four or five times</p> <p><input type="radio"/> More than five times</p> <p>(2017 Grade 4)</p>	<p style="text-align: right; font-size: small;">V1258774</p> <p>20. 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?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> Once</p> <p><input type="radio"/> Two or three times</p> <p><input type="radio"/> Four or five times</p> <p><input type="radio"/> More than five times</p> <p>Issue: Organization of Instruction</p>	NC	N/A
<p style="text-align: right; font-size: small;">V1258672</p> <p>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?</p> <p><input type="radio"/> Less than 30 minutes</p> <p><input type="radio"/> About 30 minutes</p> <p><input type="radio"/> About 1 hour</p> <p><input type="radio"/> About 2 hours</p> <p><input type="radio"/> About 3 hours</p> <p><input type="radio"/> 4 or more hours</p> <p>(2017 Grade 4)</p>	<p style="text-align: right; font-size: small;">V1258636</p> <p>21. On a typical school day, how much time do you use a computer or other digital device to do your English/language arts schoolwork?</p> <p><input type="radio"/> Less than 30 minutes</p> <p><input type="radio"/> About 30 minutes</p> <p><input type="radio"/> About 1 hour</p> <p><input type="radio"/> About 2 hours</p> <p><input type="radio"/> About 3 hours</p> <p><input type="radio"/> 4 or more hours</p> <p>Issue: Resources for Learning and Instruction</p>	R	The word “homework” was removed.
<p style="text-align: right; font-size: small;">V1258028</p> <p>7. In this school year, how often do you borrow reading materials (such as books or magazines) from your school library or media center?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> About once or twice a year</p> <p><input type="radio"/> About once or twice a month</p> <p><input type="radio"/> About once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p> <p>(2017 Grade 4)</p>	<p style="text-align: right; font-size: small;">V1258030</p> <p>22. 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?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> About once or twice a year</p> <p><input type="radio"/> About once or twice a month</p> <p><input type="radio"/> About once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p> <p>Issue: Resources for Learning and Instruction</p>	R	The phrase “classroom library” was added.

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<p>8. Do you think you would be able to do each of the following when reading? Select one answer choice on each row.</p> <p style="text-align: right; font-size: small;">V1121068</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>I definitely can't</th> <th>I probably can't</th> <th>Maybe</th> <th>I probably can</th> <th>I definitely can</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Figure out the meaning of a word you don't know by using other words in the text</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">V1126084</td> </tr> <tr> <td>b. 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2019 Operational Grade 4 Reading Student

Previous item	2019 item	D/A/ R/NC+	Rationale																																																																																				
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Appendix K-1p: Operational Grade 4 Reading

17. 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

18. 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

19. 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

20. 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

21. 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

22. 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

23. 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

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

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

26. 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.	(A)	(B)	(C)	(D)	(E)	VH844169
b. I like talking about books with other people.	(A)	(B)	(C)	(D)	(E)	VH844170
c. I think reading is important.	(A)	(B)	(C)	(D)	(E)	VH844172
d. I enjoy going to a bookstore or a library.	(A)	(B)	(C)	(D)	(E)	VH844171

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

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

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

- (A) Never
- (B) About once or twice a year
- (C) About once or twice a month
- (D) About once or twice a week
- (E) Every day or almost every day

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

Appendix K-1q: Summary of Changes Pilot Grade 4 Reading

2019 Pilot Grade 4 Reading Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p>21. How often does your teacher ask you to read a book you have chosen yourself?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> About once or twice a year</p> <p><input type="radio"/> About once or twice a month</p> <p><input type="radio"/> About once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p> <p>(2017 Grade 4)</p>	<p>N/A</p>	<p>D</p>	<p>This item was dropped to reduce student burden and create opportunity for future development.</p>
<p>22. How often does your teacher ask you to discuss new or difficult vocabulary?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> About once or twice a year</p> <p><input type="radio"/> About once or twice a month</p> <p><input type="radio"/> About once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p> <p>(2017 Grade 4)</p>	<p>1. How often does your teacher ask you to discuss new or difficult vocabulary?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> About once or twice a year</p> <p><input type="radio"/> About once or twice a month</p> <p><input type="radio"/> About once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p> <p>Issue: Organization of Instruction</p>	<p>NC</p>	<p>N/A</p>
<p>23. For school this year, how often do you work in pairs or small groups to talk about something that you have read?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> About once or twice a year</p> <p><input type="radio"/> About once or twice a month</p> <p><input type="radio"/> About once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p> <p>(2017 Grade 4)</p>	<p>2. For school this year, how often do you work in pairs or small groups to talk about something that you have read?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> About once or twice a year</p> <p><input type="radio"/> About once or twice a month</p> <p><input type="radio"/> About once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p> <p>Issue: Organization of Instruction</p>	<p>NC</p>	<p>N/A</p>
<p>24. For school this year, how often do you have a class discussion about something that the class has read?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> About once or twice a year</p> <p><input type="radio"/> About once or twice a month</p> <p><input type="radio"/> About once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p> <p>(2017 Grade 4)</p>	<p>3. For school this year, how often do you have a class discussion about something that the class has read?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> About once or twice a year</p> <p><input type="radio"/> About once or twice a month</p> <p><input type="radio"/> About once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p> <p>Issue: Organization of Instruction</p>	<p>NC</p>	<p>N/A</p>

2019 Pilot Grade 4 Reading Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right; font-size: small;">V1856774</p> <p>25. 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?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> Once <input type="radio"/> Two or three times <input type="radio"/> Four or five times <input type="radio"/> More than five times <p>(2017 Grade 4)</p>	<p style="text-align: right; font-size: small;">V1856774</p> <p>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?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> Once <input type="radio"/> Two or three times <input type="radio"/> Four or five times <input type="radio"/> More than five times <p>Issue: Organization of Instruction</p>	NC	N/A
<p style="text-align: right; font-size: small;">V1856672</p> <p>26. 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?</p> <ul style="list-style-type: none"> <input type="radio"/> Less than 30 minutes <input type="radio"/> About 30 minutes <input type="radio"/> About 1 hour <input type="radio"/> About 2 hours <input type="radio"/> About 3 hours <input type="radio"/> 4 or more hours <p>(2017 Grade 4)</p>	<p style="text-align: right; font-size: small;">V1856636</p> <p>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?</p> <ul style="list-style-type: none"> <input type="radio"/> Less than 30 minutes <input type="radio"/> About 30 minutes <input type="radio"/> About 1 hour <input type="radio"/> About 2 hours <input type="radio"/> About 3 hours <input type="radio"/> 4 or more hours <p>Issue: Resources for Learning and Instruction</p>	R	The word “homework” was removed.
<p style="text-align: right; font-size: small;">V1856628</p> <p>27. In this school year, how often do you borrow reading materials (such as books or magazines) from your school library or media center?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>(2017 Grade 4)</p>	<p style="text-align: right; font-size: small;">V1853176</p> <p>11. In this school year, how often do you borrow reading materials (such as books or magazines) from your school (for example, a classroom library, school library, or media center)?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>Issue: Resources for Learning and Instruction</p>	R	The phrase “classroom library” was added and “classroom library, school library, media center” was bolded.

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Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Not at all like me</th> <th>A little bit like me</th> <th>Somewhat like me</th> <th>Quite a bit like me</th> <th>Exactly like me</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Reading is one of my favorite activities.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>V1B44169</td> </tr> <tr> <td>b. I like talking about books with other people.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>V1B44170</td> </tr> <tr> <td>c. 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2019 Pilot Grade 4 Reading Student

Previous item	2019 item	D/A/R/NC+	Rationale																																			
<p>32. How often do you receive help from a tutor, family member, or friend with English/language arts outside of school or after school?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> About once or twice a year</p> <p><input type="radio"/> About once or twice a month</p> <p><input type="radio"/> About once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p> <p>(2017 Grade 4)</p>	<p>N/A</p>	<p>D</p>	<p>This item was dropped to reduce student burden and create opportunity for future development.</p>																																			
<p>N/A</p>	<p>8. How often do you receive the following types of help with English/language arts schoolwork outside of school or after school? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Never</th> <th>About once or twice a year</th> <th>About once or twice a month</th> <th>About once or twice a week</th> <th>Every day or almost every day</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Help from a teacher</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>V801100</td> </tr> <tr> <td>b. Help from a tutor</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>V801102</td> </tr> <tr> <td>c. Help from a family member or friend</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>V801106</td> </tr> <tr> <td>d. Help from online resources (for example, websites or apps)</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>V801200</td> </tr> </tbody> </table> <p>Issue: Resources for Learning and Instruction</p>		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. Help from a teacher	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V801100	b. Help from a tutor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V801102	c. Help from a family member or friend	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V801106	d. Help from online resources (for example, websites or apps)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V801200	<p>A</p>	<p>This item was added.</p>
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<p>N/A</p>	<p>9. How useful do you find each of the following types of help to understand your English/language arts schoolwork? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Not useful at all</th> <th>Somewhat useful</th> <th>Very useful</th> <th>I don't receive that type of help.</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Help from a teacher</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>V801287</td> </tr> <tr> <td>b. Help from a tutor</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>V801301</td> </tr> <tr> <td>c. Help from a family member or friend</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>V801302</td> </tr> <tr> <td>d. Help from online resources (for example, websites or apps)</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>V801304</td> </tr> </tbody> </table> <p>Issue: Resources for Learning and Instruction</p>		Not useful at all	Somewhat useful	Very useful	I don't receive that type of help.		a. Help from a teacher	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V801287	b. Help from a tutor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V801301	c. Help from a family member or friend	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V801302	d. Help from online resources (for example, websites or apps)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V801304	<p>A</p>	<p>This item was added.</p>					
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2019 Pilot Grade 4 Reading Student

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Appendix K-1r: Pilot Grade 4 Reading

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

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

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

4. 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
g. Use evidence from a text to support your answer	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH811215

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

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

7. 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

8. How often do you receive the following types of help with English/language arts schoolwork **outside of school or after 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. Help from a teacher	(A)	(B)	(C)	(D)	(E)	VH811190
b. Help from a tutor	(A)	(B)	(C)	(D)	(E)	VH811192
c. Help from a family member or friend	(A)	(B)	(C)	(D)	(E)	VH811196
d. Help from online resources (for example, websites or apps)	(A)	(B)	(C)	(D)	(E)	VH811200

9. How useful do you find each of the following types of help to understand your English/language arts schoolwork? Select **one** answer choice on each row.

	Not useful at all	Somewhat useful	Very useful	I don't receive that type of help.	
a. Help from a teacher	(A)	(B)	(C)	(D)	VH811287
b. Help from a tutor	(A)	(B)	(C)	(D)	VH811291
c. Help from a family member or friend	(A)	(B)	(C)	(D)	VH811302
d. Help from online resources (for example, websites or apps)	(A)	(B)	(C)	(D)	VH811304

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. Reading is one of my favorite activities.	(A)	(B)	(C)	(D)	(E)	VH844169
b. I like talking about books with other people.	(A)	(B)	(C)	(D)	(E)	VH844170
c. I think reading is important.	(A)	(B)	(C)	(D)	(E)	VH844172
d. I enjoy going to a bookstore or a library.	(A)	(B)	(C)	(D)	(E)	VH844171
e. I enjoy finding things to read online.	(A)	(B)	(C)	(D)	(E)	VH853415

11. In this school year, how often do you borrow reading materials (such as books or magazines) from your school (for example, a **classroom library**, **school library**, or **media center**)?

- (A) Never
- (B) About once or twice a year
- (C) About once or twice a month
- (D) About once or twice a week
- (E) Every day or almost every day

12. How often do you typically 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. Read online about topics I am interested in	(A)	(B)	(C)	(D)	(E)	VH853656
b. Talk about things I read with other people	(A)	(B)	(C)	(D)	(E)	VH853657
c. Borrow or download books from a local library	(A)	(B)	(C)	(D)	(E)	VH853655
d. Use social media (for example, Facebook, Twitter, Instagram)	(A)	(B)	(C)	(D)	(E)	VH853654
e. Help friends with reading homework	(A)	(B)	(C)	(D)	(E)	VH853658

13. 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.	(A)	(B)	(C)	(D)	(E)	VH853764
b. I want to show others that my English/language arts schoolwork is easy for me.	(A)	(B)	(C)	(D)	(E)	VH853765
c. I want to look smart in comparison to the other students in my English/language arts class.	(A)	(B)	(C)	(D)	(E)	VH853766
d. I want to get better English/language arts grades than most other students in my class.	(A)	(B)	(C)	(D)	(E)	VH853776

14. 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.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH853767
b. I want to become a better reader this year.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH853777
c. I want to understand as much as I can in my English/language arts class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH853774
d. I want to master a lot of new English/language arts skills in my class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH853770

Appendix K-1s: Spiral Map Grade 4 Reading

Accnum	Grade	Grade 4 OMB PDF Sequence Number	Number of Grade 4 booklets item appears in	Grade 4 booklets item appears in
VH853176	4, 8	11_00	3	1, 2, 3
VH853652	4, 8	12_00	2	1, 2
VH853656	4, 8	12_01	2	1, 2
VH853657	4, 8	12_02	2	1, 2
VH853655	4, 8	12_03	2	1, 2
VH853654	4, 8	12_04	2	1, 2
VH853658	4, 8	12_05	2	1, 2
VH598636	4, 8	06_00	3	1, 2, 3
VH844168	4, 8	10_00	2	1, 2
VH844169	4, 8	10_01	2	1, 2
VH844170	4, 8	10_02	2	1, 2
VH844172	4, 8	10_03	2	1, 2
VH844171	4, 8	10_04	2	1, 2
VH853415	4, 8	10_05	2	1, 2
VH811176	4, 8	08_00	2	1, 2
VH811190	4, 8	08_01	2	1, 2
VH811192	4, 8	08_02	2	1, 2
VH811196	4, 8	08_03	2	1, 2
VH811200	4, 8	08_04	2	1, 2
VH811276	4, 8	09_00	2	1, 2
VH811287	4, 8	09_01	2	1, 2
VH811291	4, 8	09_02	2	1, 2
VH811302	4, 8	09_03	2	1, 2
VH811304	4, 8	09_04	2	1, 2
VH598686	4, 8	07_00	1	3
VH337050	4, 8	04_00	1	3
VH260848	4, 8	04_01	1	3

VH260849		04_02		
	4, 8		1	3
VH260851		04_03		
	4, 8		1	3
VH260859	4, 8	04_04	1	3
VH260861		04_05		
	4, 8		1	3
VH260863		04_06		
	4, 8		1	3
VH811215	4,8	04_07	1	3
VH853747	4, 8	13_00	1	3
VH853764	4, 8	13_01	1	3
VH853765	4, 8	13_02	1	3
VH853766	4, 8	13_03	1	3
VH853776	4, 8	13_04	1	3
VH853763	4,8	14_00	1	3
VH853767	4, 8	14_01	1	3
VH853777	4, 8	14_02	1	3
VH853774	4, 8	14_03	1	3
VH853770	4, 8	14_04	1	3
VH332853	4	01_00	1	3
VH332862	4	02_00	1	3
VH332871	4	03_00	1	3
VH588774	4, 8,12	05_00	1	3

Appendix K-1t: Summary of Changes Operational Grade 8 Reading

2019 Operational Grade 8 Reading Student

Previous item	2019 item	D/A/ R/NC+	Rationale																																																																																											
<p>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.</p> <p style="text-align: right; font-size: small;">VH13287</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Never</th> <th>About once or twice a year</th> <th>About once or twice a month</th> <th>About once or twice a week</th> <th>Every day or almost every day</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Have a class discussion about something that the whole class has read</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH13288</td> </tr> <tr> <td>b. Work in pairs or small groups to talk about something that you have read</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH13289</td> </tr> </tbody> </table> <p>(2017 Grade 8)</p>		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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH13288	b. Work in pairs or small groups to talk about something that you have read	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH13289	<p>22. For your English/language arts class this year, how often do you do each of the following? Select one answer choice on each row.</p> <p style="text-align: right; font-size: small;">VH13287</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Never</th> <th>About once or twice a year</th> <th>About once or twice a month</th> <th>About once or twice a week</th> <th>Every day or almost every day</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Have a class discussion about something that the whole class has read</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH13288</td> </tr> <tr> <td>b. Work in pairs or small groups to talk about something that you have read</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH13289</td> </tr> </tbody> </table> <p>Issue: Organization of Instruction</p>		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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH13288	b. Work in pairs or small groups to talk about something that you have read	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH13289	NC	N/A																																																	
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<p>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.</p> <p style="text-align: right; font-size: small;">VH26251</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Never or hardly ever</th> <th>Once in a while</th> <th>Sometimes</th> <th>Often</th> <th>Always or almost always</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Evaluate the main evidence in a persuasive/argument passage</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH26256</td> </tr> <tr> <td>b. Analyze the author's organization of information in a passage</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH33142</td> </tr> <tr> <td>c. Critique the author's craft or technique</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH33144</td> </tr> </tbody> </table> <p>(2017 Grade 8)</p>		Never or hardly ever	Once in a while	Sometimes	Often	Always or almost always		a. Evaluate the main evidence in a persuasive/argument passage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH26256	b. Analyze the author's organization of information in a passage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH33142	c. Critique the author's craft or technique	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH33144	<p>23. 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.</p> <p style="text-align: right; font-size: small;">VH26254</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Never or hardly ever</th> <th>Once in a while</th> <th>Sometimes</th> <th>Often</th> <th>Always or almost always</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Evaluate the main evidence in a persuasive/argument passage</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH26256</td> </tr> <tr> <td>b. Analyze the author's organization of information in a passage</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH33142</td> </tr> </tbody> </table> <p>Issue: Organization of Instruction</p>		Never or hardly ever	Once in a while	Sometimes	Often	Always or almost always		a. Evaluate the main evidence in a persuasive/argument passage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH26256	b. Analyze the author's organization of information in a passage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH33142	R	A sub-item was dropped.																																										
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<p>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.</p> <p style="text-align: right; font-size: small;">VH33074</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Never or hardly ever</th> <th>Once in a while</th> <th>Sometimes</th> <th>Often</th> <th>Always or almost always</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Summarize the passage</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH33075</td> </tr> <tr> <td>b. Interpret the meaning of the passage</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH33076</td> </tr> <tr> <td>c. Question the motives or feelings of the characters</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH33079</td> </tr> <tr> <td>d. 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Identify the main ideas of the passage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH33078	e. Identify the themes of the passage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH33094	f. Analyze two or more texts on the same topic	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH33077	<p>24. 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.</p> <p style="text-align: right; font-size: small;">VH33074</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Never or hardly ever</th> <th>Once in a while</th> <th>Sometimes</th> <th>Often</th> <th>Always or almost always</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Summarize the passage</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH33075</td> </tr> <tr> <td>b. Interpret the meaning of the passage</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH33076</td> </tr> <tr> <td>c. Question the motives or feelings of the characters</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH33079</td> </tr> <tr> <td>d. 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2019 Operational Grade 8 Reading Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right; font-size: small;">V188774</p> <p>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?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> Once <input type="radio"/> Two or three times <input type="radio"/> Four or five times <input type="radio"/> More than five times <p>(2017 Grade 8)</p>	<p style="text-align: right; font-size: small;">V188774</p> <p>25. 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?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> Once <input type="radio"/> Two or three times <input type="radio"/> Four or five times <input type="radio"/> More than five times <p>Issue: Organization of Instruction</p>	NC	N/A
<p style="text-align: right; font-size: small;">V188838</p> <p>5. On a typical school day, how much time do you use a computer or other digital device to do your English/language arts schoolwork?</p> <ul style="list-style-type: none"> <input type="radio"/> Less than 30 minutes <input type="radio"/> About 30 minutes <input type="radio"/> About 1 hour <input type="radio"/> About 2 hours <input type="radio"/> About 3 hours <input type="radio"/> 4 or more hours <p>(2017 Grade 8)</p>	<p style="text-align: right; font-size: small;">V188838</p> <p>26. On a typical school day, how much time do you use a computer or other digital device to do your English/language arts schoolwork?</p> <ul style="list-style-type: none"> <input type="radio"/> Less than 30 minutes <input type="radio"/> About 30 minutes <input type="radio"/> About 1 hour <input type="radio"/> About 2 hours <input type="radio"/> About 3 hours <input type="radio"/> 4 or more hours <p>Issue: Resources for Learning and Instruction</p>	NC	N/A
<p style="text-align: right; font-size: small;">V186000</p> <p>6. 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?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>(2017 Grade 8)</p>	<p style="text-align: right; font-size: small;">V186000</p> <p>27. 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?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>Issue: Resources for Learning and Instruction</p>	NC	N/A

2019 Operational Grade 8 Reading Student

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b. Judge the reliability of sources (for example, how a website might be biased or inaccurate)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V12G0857																																																																																	
c. Critique an author's craft or technique	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V12G0866																																																																																	
d. Use evidence from a text to support my answer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1610841																																																																																	
e. Identify the author's perspective in a persuasive text	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V12G0865																																																																																	

2019 Operational Grade 8 Reading Student

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I want to show others that my English/language arts schoolwork is easy for me.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">V1009027</td> </tr> <tr> <td>c. I want to look smart in comparison to the other students in my English/language arts class.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">V1009010</td> </tr> <tr> <td>d. I want to learn as much as possible in my English/language arts class.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">V1009011</td> </tr> <tr> <td>e. 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2019 Operational Grade 8 Reading Student

Previous item	2019 item	D/A/ R/NC+	Rationale																																																																																																		
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2019 Operational Grade 8 Reading Student

Previous item	2019 item	D/A/ R/NC+	Rationale																																																																																				
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Appendix K-1u: Operational Grade 8 Reading

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

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

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

25. 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?

- (A) Never
- (B) Once
- (C) Two or three times
- (D) Four or five times
- (E) More than five times

26. 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

27. 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

28. 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

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

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

31. 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

32. 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

33. 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

34. 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. E-mails	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH261074
c. Text messages	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH261075
d. Biographies	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH617043

35. 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

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

Appendix K-1v: Summary of Changes Pilot Grade 8 Reading

2019 Pilot Grade 8 Reading Student

Previous item	2019 item	D/A/R/NC+	Rationale																																																																																											
<p>25. For your English/language arts class this year, how often do you do each of the following? Select one answer choice on each row.</p> <p style="text-align: right; font-size: small;">VH03297</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Never</th> <th>About once or twice a year</th> <th>About once or twice a month</th> <th>About once or twice a week</th> <th>Every day or almost every day</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Have a class discussion about something that the whole class has read</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VH03298</td> </tr> <tr> <td>b. Work in pairs or small groups to talk about something that you have read</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VH03299</td> </tr> </tbody> </table> <p>(2017 Grade 8)</p>		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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH03298	b. Work in pairs or small groups to talk about something that you have read	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH03299	<p>4. For your English/language arts class this year, how often do you do each of the following? Select one answer choice on each row.</p> <p style="text-align: right; font-size: small;">VH03297</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Never</th> <th>About once or twice a year</th> <th>About once or twice a month</th> <th>About once or twice a week</th> <th>Every day or almost every day</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Have a class discussion about something that the whole class has read</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VH03298</td> </tr> <tr> <td>b. Work in pairs or small groups to talk about something that we have read</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VH03299</td> </tr> </tbody> </table> <p>Issue: Organization of Instruction</p>		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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH03298	b. Work in pairs or small groups to talk about something that we have read	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH03299	NC	N/A																																																	
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<p>28. 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?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> Once</p> <p><input type="radio"/> Two or three times</p> <p><input type="radio"/> Four or five times</p> <p><input type="radio"/> More than five times</p> <p>(2017 Grade 8)</p>	<p>17. 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?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> Once</p> <p><input type="radio"/> Two or three times</p> <p><input type="radio"/> Four or five times</p> <p><input type="radio"/> More than five times</p> <p>Issue: Organization of Instruction</p>	NC	N/A
<p>29. 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?</p> <p><input type="radio"/> Less than 30 minutes</p> <p><input type="radio"/> About 30 minutes</p> <p><input type="radio"/> About 1 hour</p> <p><input type="radio"/> About 2 hours</p> <p><input type="radio"/> About 3 hours</p> <p><input type="radio"/> 4 or more hours</p> <p>(2017 Grade 8)</p>	<p>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?</p> <p><input type="radio"/> Less than 30 minutes</p> <p><input type="radio"/> About 30 minutes</p> <p><input type="radio"/> About 1 hour</p> <p><input type="radio"/> About 2 hours</p> <p><input type="radio"/> About 3 hours</p> <p><input type="radio"/> 4 or more hours</p> <p>Issue: Resources for Learning and Instruction</p>	R	The word “homework” was removed.
<p>30. In this school year, how often do you borrow reading materials (such as books or magazines) from your school library or media center?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> About once or twice a year</p> <p><input type="radio"/> About once or twice a month</p> <p><input type="radio"/> About once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p> <p>(2017 Grade 8)</p>	<p>13. In this school year, how often do you borrow reading materials (such as books or magazines) from your school (for example, a classroom library, school library, or media center)?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> About once or twice a year</p> <p><input type="radio"/> About once or twice a month</p> <p><input type="radio"/> About once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p> <p>Issue: Resources for Learning and Instruction</p>	R	The phrase “classroom library” was added and “classroom library, school library, media center” was bolded.

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

2019 Pilot Grade 8 Reading Student

Previous item	2019 item	D/A/R/NC+	Rationale																																																																																																																							
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a. I want other students to think I am good at reading.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH053764																																																																																																																				
b. I want to show others that my English/language arts schoolwork is easy for me.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH053763																																																																																																																				
c. I want to look smart in comparison to the other students in my English/language arts class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH053766																																																																																																																				
d. I want to get better English/language arts grades than most other students in my class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH053770																																																																																																																				
	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.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH053767																																																																																																																				
b. I want to become a better reader this year.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH053777																																																																																																																				
c. I want to understand as much as I can in my English/language arts class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH053774																																																																																																																				
d. I want to master a lot of new English/language arts skills in my class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH053770																																																																																																																				

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2019 Pilot Grade 8 Reading Student

Previous item	2019 item	D/A/ R/NC+	Rationale																																																																													
<p>34. How much does each of the following statements describe a person like you? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Not at all like me</th> <th style="text-align: center;">A little bit like me</th> <th style="text-align: center;">Somewhat like me</th> <th style="text-align: center;">Quite a bit like me</th> <th style="text-align: center;">Exactly like me</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Reading is one of my favorite activities.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right; font-size: small;">V1260271</td> </tr> <tr> <td>b. I like talking about books with other people.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right; font-size: small;">V1260272</td> </tr> <tr> <td>c. I think reading is important.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right; font-size: small;">V1260275</td> </tr> <tr> <td>d. I enjoy going to a bookstore or a library.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right; font-size: small;">V1260277</td> </tr> </tbody> </table> <p>(2017 Grade 8)</p>		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.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1260271	b. I like talking about books with other people.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1260272	c. 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I enjoy finding things to read online.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right; font-size: small;">V1853419</td> </tr> </tbody> </table> <p>Issue: Student Factors</p>		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.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1844169	b. I like talking about books with other people.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1844170	c. 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<p>36. How often do you receive help from a tutor, family member, or friend with English/language arts outside of school or after school?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>(2017 Grade 8)</p>	<p>N/A</p>	D	<p>This item was dropped to reduce student burden and create opportunity for future development.</p>																																																																													

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2019 Pilot Grade 8 Reading Student

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Plays</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH261068</td> </tr> <tr> <td>d. Biographies</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH261063</td> </tr> <tr> <td>e. Comic books</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH261070</td> </tr> <tr> <td>f. Magazines</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH261073</td> </tr> <tr> <td>g. E-mails</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH261074</td> </tr> <tr> <td>h. Text messages</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH261075</td> </tr> </tbody> </table> <p>(2017 Grade 8)</p>		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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH261069	b. Poems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH261067	c. Plays	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH261068	d. Biographies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH261063	e. Comic books	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH261070	f. Magazines	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH261073	g. E-mails	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH261074	h. Text messages	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH261075	<p>3. How often do you typically read each of the following outside of school (print or online)? 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Text messages</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH261071</td> </tr> </tbody> </table> <p>Issue: Student Factors</p>		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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH261066	b. Biographies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH261064	c. E-mails	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH261072	d. Text messages	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH261071	R	Sub-items were removed.
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Read blogs</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH260913</td> </tr> <tr> <td>d. Use social media (for example, Facebook, Twitter, Instagram)</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH261028</td> </tr> <tr> <td>e. Help friends with reading homework</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH260917</td> </tr> </tbody> </table> <p>(2017 Grade 8)</p>		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. 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2019 Pilot Grade 8 Reading Student

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N/A	<p style="text-align: right; margin-right: 20px;">VIR01176</p> <p>9. How often do you receive the following types of help with English/language arts schoolwork outside of school or after school? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"></th> <th style="width: 10%;">Never</th> <th style="width: 10%;">About once or twice a year</th> <th style="width: 10%;">About once or twice a month</th> <th style="width: 10%;">About once or twice a week</th> <th style="width: 10%;">Every day or almost every day</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>a. Help from a teacher</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: small;">VIR01190</td> </tr> <tr> <td>b. Help from a tutor</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: small;">VIR01192</td> </tr> <tr> <td>c. Help from a family member or friend</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: small;">VIR01196</td> </tr> <tr> <td>d. Help from online resources (for example, websites or apps)</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: small;">VIR01200</td> </tr> </tbody> </table> <p>Issue: Resources for Learning and Instruction</p>		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. Help from a teacher	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VIR01190	b. Help from a tutor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VIR01192	c. Help from a family member or friend	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VIR01196	d. Help from online resources (for example, websites or apps)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VIR01200	A	This item was added.
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2019 Pilot Grade 8 Reading Student

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Appendix K-1w: Pilot Grade 8 Reading

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

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

3. 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	(A)	(B)	(C)	(D)	(E)	VH261066
b. Biographies	(A)	(B)	(C)	(D)	(E)	VH617043
c. E-mails	(A)	(B)	(C)	(D)	(E)	VH261074
d. Text messages	(A)	(B)	(C)	(D)	(E)	VH261075

4. 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	(A)	(B)	(C)	(D)	(E)	VH332888
b. Work in pairs or small groups to talk about something that we have read	(A)	(B)	(C)	(D)	(E)	VH652035

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

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

7. 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

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

VH611300

	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 your answer	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH811215
e. Identify the author's perspective in a persuasive text	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH260868

9. How often do you receive the following types of help with English/language arts schoolwork **outside of school or after school**? Select **one** answer choice on each row.

VH811176

	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. Help from a teacher	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH811190
b. Help from a tutor	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH811192
c. Help from a family member or friend	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH811196
d. Help from online resources (for example, websites or apps)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH811200

10. 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 author's use of figurative language (for example, symbolism, similes, metaphors, or personification)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH811229
b. Evaluate the author's use of features in a text (for example, figurative language, voice, or transition words)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH811227
c. Recognize tools the author is using (for example, rhyme, imagery, examples, or repetition)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH811231
d. Evaluate the strength and quality of evidence used by the author to support his or her position	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH811233
e. Evaluate the author's use of multimedia or non-print text (e.g., texts including images, infographics, or animations)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH811237

11. How useful do you find each of the following types of help to understand your English/language arts schoolwork? Select **one** answer choice on each row.

	Not useful at all	Somewhat useful	Very useful	I don't receive that type of help.	
a. Help from a teacher	(A)	(B)	(C)	(D)	VH811287
b. Help from a tutor	(A)	(B)	(C)	(D)	VH811291
c. Help from a family member or friend	(A)	(B)	(C)	(D)	VH811302
d. Help from online resources (for example, websites or apps)	(A)	(B)	(C)	(D)	VH811304

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.	(A)	(B)	(C)	(D)	(E)	VH844169
b. I like talking about books with other people.	(A)	(B)	(C)	(D)	(E)	VH844170
c. I think reading is important.	(A)	(B)	(C)	(D)	(E)	VH844172
d. I enjoy going to a bookstore or a library.	(A)	(B)	(C)	(D)	(E)	VH844171
e. I enjoy finding things to read online.	(A)	(B)	(C)	(D)	(E)	VH853415

13. In this school year, how often do you borrow reading materials (such as books or magazines) from your school (for example, a **classroom library**, **school library**, or **media center**)?

- (A) Never
- (B) About once or twice a year
- (C) About once or twice a month
- (D) About once or twice a week
- (E) Every day or almost every day

14. How often do you typically 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. Read online about topics I am interested in	(A)	(B)	(C)	(D)	(E)	VH853656
b. Talk about things I read with other people	(A)	(B)	(C)	(D)	(E)	VH853657
c. Borrow or download books from a local library	(A)	(B)	(C)	(D)	(E)	VH853655
d. Use social media (for example, Facebook, Twitter, Instagram)	(A)	(B)	(C)	(D)	(E)	VH853654
e. Help friends with reading homework	(A)	(B)	(C)	(D)	(E)	VH853658

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	Exactly like me	
a. I want other students to think I am good at reading.	(A)	(B)	(C)	(D)	(E)	VH853764
b. I want to show others that my English/language arts schoolwork is easy for me.	(A)	(B)	(C)	(D)	(E)	VH853765
c. I want to look smart in comparison to the other students in my English/language arts class.	(A)	(B)	(C)	(D)	(E)	VH853766
d. I want to get better English/language arts grades than most other students in my class.	(A)	(B)	(C)	(D)	(E)	VH853776

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	Exactly like me	
a. I want to learn as much as possible in my English/language arts class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH853767
b. I want to become a better reader this year.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH853777
c. I want to understand as much as I can in my English/language arts class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH853774
d. I want to master a lot of new English/language arts skills in my class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH853770

17. 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

Appendix K-1x: Spiral Map Grade 8 Reading

Accnum	Grade	Grade 8 OMB PDF Sequence Number	Number of Grade 8 booklets item appears in	Grade 8 booklets item appears in
VH853176	4, 8	13_00	3	1, 2, 3
VH853652	4, 8	14_00	2	1, 2
VH853656	4, 8	14_01	2	1, 2
VH853657	4, 8	14_02	2	1, 2
VH853655	4, 8	14_03	2	1, 2
VH853654	4, 8	14_04	2	1, 2
VH853658	4, 8	14_05	2	1, 2
VH598636	4, 8	06_00	3	1, 2, 3
VH844168	4, 8	12_00	2	1, 2
VH844169	4, 8	12_01	2	1, 2
VH844170	4, 8	12_02	2	1, 2
VH844172	4, 8	12_03	2	1, 2
VH844171	4, 8	12_04	2	1, 2
VH853415	4, 8	12_05	2	1, 2
VH811176	4, 8	09_00	2	1, 2
VH811190	4, 8	09_01	2	1, 2
VH811192	4, 8	09_02	2	1, 2
VH811196	4, 8	09_03	2	1, 2
VH811200	4, 8	09_04	2	1, 2
VH811276	4, 8	11_00	2	1, 2
VH811287	4, 8	11_01	2	1, 2
VH811291	4, 8	11_02	2	1, 2
VH811302	4, 8	11_03	2	1, 2
VH811304	4, 8	11_04	2	1, 2
VH598686	4, 8	07_00	1	3
VH332887	8	04_00	1	3
VH332888	8	04_01	1	3
VH652035	8	04_02	1	3
VH260254	8	01_00	1	3

VH260256	8	01_01	1	3
VH333142	8	01_02	1	3
VH333074	8	05_00	1	3
VH333075	8	05_01	1	3
VH333076	8	05_02	1	3
VH333079	8	05_03	1	3
VH333078	8	05_04	1	3
VH333094	8	05_05	1	3
VH261065	8	03_00	1	3
VH261066	8	03_01	1	3
VH617043	8	03_02	1	3
VH261074	8	03_03	1	3
VH261075	8	03_04	1	3
VH260847	4, 8	02_00	1	3
VH260848	4, 8	02_01	1	3
VH260849	4, 8	02_02	1	3
VH260851	4, 8	02_03	1	3
VH260859	4, 8	02_04	1	3
VH260861	4, 8	02_05	1	3
VH611300	8	08_00	1	3
VH260863	4, 8	08_01	1	3
VH260857	8	08_02	1	3
VH260866	8	08_03	1	3
VH811215	4, 8	08_04	1	3
VH260868	8	08_05	1	3
VH853747	4, 8	15_00	1	3
VH853764	4, 8	15_01	1	3
VH853765	4, 8	15_02	1	3
VH853766	4, 8	15_03	1	3
VH853776	4, 8	15_04	1	3
VH853763	4, 8	16_00	1	3
VH853767	4, 8	16_01	1	3
VH853777	4, 8	16_02	1	3
VH853774	4, 8	16_03	1	3

VH853770	4, 8	16_04	1	3
VH588774	4, 8, 12	17_00	1	3
VH811222	8	10_00	2	1, 2
VH811229	8	10_01	2	1, 2
VH811227	8	10_02	2	1, 2
VH811231	8	10_03	2	1, 2
VH811233	8	10_04	2	1, 2
VH811237	8	10_05	2	1, 2

Appendix K-1y: Summary of Changes Operational Grade 12 Reading

2019 Operational Grade 12 Reading Student

Previous item	2019 item	D/A/R/NC+	Rationale																																																								
<p>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.</p> <p style="text-align: right; font-size: small;">VH731527</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Never</th> <th>Once</th> <th>2 or 3 times</th> <th>4 or 5 times</th> <th>6 or more times</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Made a presentation to the class about something that you have read</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right; font-size: x-small;">VH731530</td> </tr> <tr> <td>b. Done a project about something that you have read (for example, written a play, created a website)</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right; font-size: x-small;">VH731529</td> </tr> </tbody> </table> <p>(2018 Grade 12)</p>		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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH731530	b. Done a project about something that you have read (for example, written a play, created a website)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH731529	<p>24. 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.</p> <p style="text-align: right; font-size: small;">VH731527</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Never</th> <th>Once</th> <th>2 or 3 times</th> <th>4 or 5 times</th> <th>6 or more times</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Made a presentation to the class about something that you have read</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right; font-size: x-small;">VH731530</td> </tr> <tr> <td>b. Done a project about something that you have read (for example, written a play, created a website)</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right; font-size: x-small;">VH731529</td> </tr> </tbody> </table> <p>Issue: Organization of Instruction</p>		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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH731530	b. Done a project about something that you have read (for example, written a play, created a website)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH731529	NC	N/A														
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<p>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.</p> <p style="text-align: right; font-size: small;">VH622087</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Never</th> <th>About once or twice a year</th> <th>About once or twice a month</th> <th>About once or twice a week</th> <th>Every day or almost every day</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Have a class discussion about something that the whole class has read</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right; font-size: x-small;">VH622088</td> </tr> <tr> <td>b. 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Discuss different interpretations of what we have read</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right; font-size: x-small;">VH622087</td> </tr> </tbody> </table> <p>(2018 Grade 12)</p>		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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH622088	b. Work in pairs or small groups to talk about something that we have read	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH622085	c. 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<p>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.</p> <p style="text-align: right; font-size: small;">VH630254</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Never or hardly ever</th> <th>Once in a while</th> <th>Sometimes</th> <th>Often</th> <th>Always or almost always</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Evaluate the main evidence in a persuasive/argument passage</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: right; font-size: x-small;">VH630256</td> </tr> <tr> <td>b. 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2019 Operational Grade 12 Reading Student

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2019 Operational Grade 12 Reading Student

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2019 Operational Grade 12 Reading Student

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Previous item	2019 item	D/A/ R/NC+	Rationale
<p>16. Are you currently enrolled in or have you taken an Advanced Placement (AP[®]) course in English/language arts? Select all that apply.</p> <p><input type="checkbox"/> Yes, I am enrolled in or have taken Advanced Placement (AP) English Language and Composition.</p> <p><input type="checkbox"/> Yes, I am enrolled in or have taken Advanced Placement (AP) English Literature and Composition.</p> <p><input type="checkbox"/> No, I have never taken an Advanced Placement (AP) English/language arts course.</p> <p>(2018 Grade 12)</p>	<p>40. Are you currently enrolled in or have you taken an Advanced Placement (AP[®]) course in English/language arts? Select all that apply.</p> <p><input type="checkbox"/> Yes, I am enrolled in or have taken Advanced Placement (AP) English Language and Composition.</p> <p><input type="checkbox"/> Yes, I am enrolled in or have taken Advanced Placement (AP) English Literature and Composition.</p> <p><input type="checkbox"/> No, I have never taken an Advanced Placement (AP) English/language arts course.</p> <p>Issue: Organization of Instruction</p>	NC	N/A
<p>17. Are you currently enrolled in or have you taken the International Baccalaureate[®] (IB) Language A1 course?</p> <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p> <p>(2018 Grade 12)</p>	<p>41. Are you currently enrolled in or have you taken the International Baccalaureate[®] (IB) Language A1 course?</p> <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p> <p>Issue: Organization of Instruction</p>	NC	N/A
<p>18. Are you currently enrolled in or have you taken any online English/language arts courses for high school or college credit?</p> <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p> <p>(2018 Grade 12)</p>	<p>42. Are you currently enrolled in or have you taken any online English/language arts courses for high school or college credit?</p> <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p> <p>Issue: Organization of Instruction</p>	NC	N/A

Appendix K-1z: Operational Grade 12 Reading

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

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

26. 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

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

28. 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?

- (A) Never
- (B) Once
- (C) Two or three times
- (D) Four or five times
- (E) More than five times

29. 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

30. 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

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

32. 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

33. 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

34. 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

35. 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.	(A)	(B)	(C)	(D)	(E)	VH844169
b. I like talking about books with other people.	(A)	(B)	(C)	(D)	(E)	VH844170
c. I think reading is important.	(A)	(B)	(C)	(D)	(E)	VH844172
d. I enjoy going to a bookstore or a library.	(A)	(B)	(C)	(D)	(E)	VH844171

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

- (A) Never
- (B) About once or twice a year
- (C) About once or twice a month
- (D) About once or twice a week
- (E) Every day or almost every day

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

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

38. 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	(A)	(B)	(C)	(D)	(E)	VH261066
b. Poems	(A)	(B)	(C)	(D)	(E)	VH261067
c. Plays	(A)	(B)	(C)	(D)	(E)	VH261068
d. Biographies	(A)	(B)	(C)	(D)	(E)	VH617043
e. Comic books	(A)	(B)	(C)	(D)	(E)	VH261070
f. Magazines	(A)	(B)	(C)	(D)	(E)	VH261071
g. E-mails	(A)	(B)	(C)	(D)	(E)	VH261074
h. Text messages	(A)	(B)	(C)	(D)	(E)	VH261075

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

40. 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.

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

42. Are you currently enrolled in or have you taken any online English/language arts courses for high school or college credit?
- Ⓐ Yes
 - Ⓑ No

Appendix K-1aa: Summary of Changes Operational Grade 4 Mathematics

2019 Operational Grade 4 Mathematics Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right; font-size: small;">VHS0015</p> <p>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?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> Once <input type="radio"/> Two or three times <input type="radio"/> Four or five times <input type="radio"/> More than five times <p>(2017 Grade 4)</p>	<p style="text-align: right; font-size: small;">VHS0015</p> <p>17. 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?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> Once <input type="radio"/> Two or three times <input type="radio"/> Four or five times <input type="radio"/> More than five times <p>Issue: Organization of Instruction</p>	NC	N/A
<p style="text-align: right; font-size: small;">VHS0016</p> <p>2. For school this year, how often do you work in pairs or small groups to talk about something that you have done in math?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>(2017 Grade 4)</p>	N/A	D	This item was dropped based on the ADC's recommendation.
<p style="text-align: right; font-size: small;">VHS0074</p> <p>3. How often do you use a computer or other digital device (excluding handheld calculators) for math at school?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>(2017 Grade 4)</p>	N/A	D	This item was dropped based on NCEs's review of technology-use items.
<p style="text-align: right; font-size: small;">VHS0186</p> <p>4. How often do you use a computer or other digital device (excluding handheld calculators) for math homework?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>(2017 Grade 4)</p>	N/A	D	This item was dropped based on NCEs's review of technology-use items.

2019 Operational Grade 4 Mathematics Student

Previous item	2019 item	D/A/R/NC+	Rationale																																										
<p style="text-align: right; font-size: small;">VH18628</p> <p>5. How often do you use the Internet to learn things about math?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> About once or twice a year</p> <p><input type="radio"/> About once or twice a month</p> <p><input type="radio"/> About once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p> <p>(2017 Grade 4)</p>	<p>N/A</p>	<p>D</p>	<p>This item was dropped based on NCEs’s review of technology-use items.</p>																																										
<p style="text-align: right; font-size: small;">VH18621</p> <p>6. How often do you use a calculator?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> About once or twice a year</p> <p><input type="radio"/> About once or twice a month</p> <p><input type="radio"/> About once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p> <p>(2017 Grade 4)</p>	<p style="text-align: right; font-size: small;">VH18621</p> <p>19. How often do you use a calculator?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> About once or twice a year</p> <p><input type="radio"/> About once or twice a month</p> <p><input type="radio"/> About once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p> <p>Issue: Resources for Learning and Instruction</p>	<p>NC</p>	<p>N/A</p>																																										
<p style="text-align: right; font-size: small;">VH18623</p> <p>7. How often do you receive help or tutoring with math outside of school or after school?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> About once or twice a year</p> <p><input type="radio"/> About once or twice a month</p> <p><input type="radio"/> About once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p> <p>(2017 Grade 4)</p>	<p style="text-align: right; font-size: small;">VH18623</p> <p>22. How often do you receive help or tutoring with math outside of school or after school?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> About once or twice a year</p> <p><input type="radio"/> About once or twice a month</p> <p><input type="radio"/> About once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p> <p>Issue: Resources for Learning and Instruction</p>	<p>NC</p>	<p>N/A</p>																																										
<p style="text-align: right; font-size: small;">VH18745</p> <p>8. This school year, how often did the following things happen in your math class? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Never or hardly ever</th> <th>Less than half of the time</th> <th>About half of the time</th> <th>More than half of the time</th> <th>All or almost all of the time</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. My teacher used computers or other digital devices when teaching math to my class.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH188077</td> </tr> <tr> <td>b. My teacher required us to use computers or other digital devices to complete math assignments.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH187419</td> </tr> </tbody> </table> <p>(2017 Grade 4)</p>		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.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH188077	b. My teacher required us to use computers or other digital devices to complete math assignments.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH187419	<p style="text-align: right; font-size: small;">VH18745</p> <p>18. This school year, how often did the following things happen in your math class? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Never or hardly ever</th> <th>Less than half of the time</th> <th>About half of the time</th> <th>More than half of the time</th> <th>All or almost all of the time</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. My teacher used computers or other digital devices when teaching math to my class.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH188077</td> </tr> <tr> <td>b. My teacher required us to use computers or other digital devices to complete math assignments.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH187419</td> </tr> </tbody> </table> <p>Issue: Resources for Learning and Instruction</p>		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.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH188077	b. My teacher required us to use computers or other digital devices to complete math assignments.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH187419	<p>NC</p>	<p>N/A</p>
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2019 Operational Grade 4 Mathematics Student

Previous item	2019 item	D/A/R/NC+	Rationale																																																								
<p style="text-align: right; font-size: small;">VH28936</p> <p>9. How often do you use math in everyday life outside of school?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> About once or twice a year</p> <p><input type="radio"/> About once or twice a month</p> <p><input type="radio"/> About once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p> <p>(2017 Grade 4)</p>	<p style="text-align: right; font-size: small;">VH28936</p> <p>20. How often do you use math in everyday life outside of school?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> About once or twice a year</p> <p><input type="radio"/> About once or twice a month</p> <p><input type="radio"/> About once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p> <p>Issue: Resources for Learning and Instruction</p>	NC	N/A																																																								
<p style="text-align: right; font-size: small;">VH28945</p> <p>10. How often do you participate in each of the following activities outside of school? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Never</th> <th>About once or twice a year</th> <th>About once or twice a month</th> <th>About once or twice a week</th> <th>Every day or almost every day</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Talk about math problems with your friends</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH28944</td> </tr> <tr> <td>b. Play an instrument and read music</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH28961</td> </tr> <tr> <td>c. Go to websites for help with your math homework</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH28962</td> </tr> </tbody> </table> <p>(2017 Grade 4)</p>		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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH28944	b. Play an instrument and read music	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH28961	c. Go to websites for help with your math homework	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH28962	<p style="text-align: right; font-size: small;">VH28945</p> <p>21. How often do you participate in each of the following activities outside of school? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Never</th> <th>About once or twice a year</th> <th>About once or twice a month</th> <th>About once or twice a week</th> <th>Every day or almost every day</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Talk about math problems with your friends</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH28946</td> </tr> <tr> <td>b. Play an instrument and read music</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH28961</td> </tr> <tr> <td>c. Go to websites for help with your math homework</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH28962</td> </tr> </tbody> </table> <p>Issue: Resources for Learning and Instruction</p>		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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH28946	b. Play an instrument and read music	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH28961	c. Go to websites for help with your math homework	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH28962	NC	N/A
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<p style="text-align: right; font-size: small;">VH28937</p> <p>12. Over the past seven days, how many days have you helped your friends with their math homework? Enter the number of days.</p> <p style="font-size: x-small;">□</p> <p>(2017 Grade 4)</p>	<p style="text-align: right; font-size: small;">VH28937</p> <p>25. Over the past seven days, how many days have you helped your friends with their math homework? Enter the number of days.</p> <p style="font-size: x-small;">□</p> <p>Issue: Resources for Learning and Instruction</p>	NC	N/A																																																								

2019 Operational Grade 4 Mathematics Student

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f. I want to understand as much as I can in my math class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH869960																																																																																																																				
	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me																																																																																																																					
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b. I want to show others that my math schoolwork is easy for me.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH844872																																																																																																																				
c. I want to look smart in comparison to the other students in my math class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH844873																																																																																																																				
d. I want to get better grades than most other students in my math class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH844882																																																																																																																				
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a. I want to learn as much as possible in my math class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH845117																																																																																																																				
b. I want to master a lot of new skills in my math class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH845114																																																																																																																				
c. I want to become better in math this year.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH845115																																																																																																																				
d. I want to understand as much as I can in my math class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH845118																																																																																																																				

2019 Operational Grade 4 Mathematics Student

Previous item	2019 item	D/A/ R/NC+	Rationale
			were added from the 2016 pilot assessment. The stem was revised from “describe a person like you” to “describe you”.

Grade 4 Mathematics Student

Previous item	2019 item	D/A/R/NC+	Rationale																																																																																																		
<p>15. How much does each of the following statements describe a person like you? Select one answer choice on each row. VH04249</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Not at all like me</th> <th>A little bit like me</th> <th>Somewhat like me</th> <th>Quite a bit like me</th> <th>Exactly like me</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. I enjoy doing math.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VH047679</td> </tr> <tr> <td>b. I look forward to my math class.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VH047680</td> </tr> <tr> <td>c. I am interested in the things I learn in math.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VH047681</td> </tr> <tr> <td>d. I think making an effort in math is worthwhile.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VH047682</td> </tr> <tr> <td>e. I think math will help me even when I am not in school.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VH047683</td> </tr> <tr> <td>f. I think it is important to do well in math.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VH047684</td> </tr> </tbody> </table> <p>(2017 Grade 4)</p>		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.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH047679	b. I look forward to my math class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH047680	c. I am interested in the things I learn in math.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH047681	d. 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I enjoy doing math.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH044770	b. I look forward to my math class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH044771	c. I am interested in the things I learn in math.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH044772	d. I think making an effort in math is worthwhile.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH044773	e. I think math will help me even when I am not in school.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH044774	f. I think it is important to do well in math.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH044775	R	<p>The stem was revised from “describe a person like you” to “describe you”.</p>
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<p>16. How often do you play digital games (for example, apps, video games, or computer games) outside of school that involve math? VH460329</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>(2017 Grade 4)</p>	<p>23. How often do you play digital games (for example, apps, video games, or computer games) outside of school that involve math? VH460329</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>Issue: Resources for Learning and Instruction</p>	NC	N/A																																																																																																		

Appendix K-1ab: Operational Grade 4 Mathematics

17. 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

18. 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

19. 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

20. 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

21. 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

22. 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

23. 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

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

- Ⓐ Yes
- Ⓑ No

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

26. 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

27. 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

28. 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

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

Appendix K-1ac: Summary of Changes Pilot Grade 4 Mathematics

2019 Pilot Grade 4 Mathematics Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p>21. 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?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> Once</p> <p><input type="radio"/> Two or three times</p> <p><input type="radio"/> Four or five times</p> <p><input type="radio"/> More than five times</p> <p>(2017 Grade 4)</p>	<p>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 math?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> Once</p> <p><input type="radio"/> Two or three times</p> <p><input type="radio"/> Four or five times</p> <p><input type="radio"/> More than five times</p> <p>Issue: Organization of Instruction</p>	NC	N/A
<p>22. For school this year, how often do you work in pairs or small groups to talk about something that you have done in math?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> About once or twice a year</p> <p><input type="radio"/> About once or twice a month</p> <p><input type="radio"/> About once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p> <p>(2017 Grade 4)</p>	N/A	D	This item was dropped based on the ADC's recommendation.
<p>23. How often do you use a computer or other digital device (excluding handheld calculators) for math at school?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> About once or twice a year</p> <p><input type="radio"/> About once or twice a month</p> <p><input type="radio"/> About once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p> <p>(2017 Grade 4)</p>	N/A	D	This item was dropped based on NCEs's review of technology-use items.
<p>24. How often do you use a computer or other digital device (excluding handheld calculators) for math homework?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> About once or twice a year</p> <p><input type="radio"/> About once or twice a month</p> <p><input type="radio"/> About once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p> <p>(2017 Grade 4)</p>	N/A	D	This item was dropped based on NCEs's review of technology-use items.

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

2019 Pilot Grade 4 Mathematics Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right;"><small>VH09028</small></p> <p>25. How often do you use the Internet to learn things about math?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>(2017 Grade 4)</p>	<p>N/A</p>	<p>D</p>	<p>This item was dropped based on NCES’s review of technology-use items.</p>
<p style="text-align: right;"><small>VH09029</small></p> <p>26. How often do you use a calculator?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>(2017 Grade 4)</p>	<p style="text-align: right;"><small>VH09029</small></p> <p>4. How often do you use a calculator?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>Issue: Resources for Learning and Instruction</p>	<p>NC</p>	<p>N/A</p>
<p style="text-align: right;"><small>VH09030</small></p> <p>27. How often do you receive help or tutoring with math outside of school or after school?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>(2017 Grade 4)</p>	<p>N/A</p>	<p>D</p>	<p>This item was dropped in place of keeping VH853724, as per similar recommendations made for Reading based on pretesting and to ensure consistency across subjects.</p>

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

2019 Pilot Grade 4 Mathematics Student

Previous item	2019 item	D/A/R/NC+	Rationale																																																								
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+ This column indicates whether the item was dropped (D), added (A), revised (R), or there was no change (NC).

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e. I want to become better in math this year.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1D26954																																																																																	
f. I want to understand as much as I can in my math class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1D26956																																																																																	
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a. I want to learn as much as possible about math in my class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1B54957																																																																																	
b. I want to master a lot of new math skills in my class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1B53861																																																																																	
c. I want to become a better math student this year.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1B54949																																																																																	
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2019 Pilot Grade 4 Mathematics Student

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I want to get better math grades than most other students in my class.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH054124</td> </tr> </tbody> </table> <p>Issue: Student Factors</p>		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 math student.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH054117	b. I want to show others that my math schoolwork is easy for me.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH054118	c. I want to look smart in comparison to the other students in my math class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH054119	d. I want to get better math grades than most other students in my class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH054124	<p>R</p>	<p>on a total of at least 4 items, VH844882, VH853961 and VH8451314 were added from the 2016 pilot assessment. The stem was revised from “describe a person like you” to “describe you”.</p> <p>The stem was revised from “describe a person like you” to “describe you”.</p>														
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2019 Pilot Grade 4 Mathematics Student

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<p>16. How often do you play digital games (for example, apps, video games, or computer games) outside of school that involve math?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> About once or twice a year</p> <p><input type="radio"/> About once or twice a month</p> <p><input type="radio"/> About once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p> <p>(2017 Grade 4)</p>	<p>6. How often do you play digital games (for example, apps, video games, or computer games) outside of school that involve math?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> About once or twice a year</p> <p><input type="radio"/> About once or twice a month</p> <p><input type="radio"/> About once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p> <p>Issue: Resources for Learning and Instruction</p>	NC	N/A																																			
N/A	<p>7. How often do you receive the following types of help with math schoolwork outside of school or after school? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Never</th> <th>About once or twice a year</th> <th>About once or twice a month</th> <th>About once or twice a week</th> <th>Every day or almost every day</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Help from a teacher</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH051725</td> </tr> <tr> <td>b. Help from a tutor</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH051726</td> </tr> <tr> <td>c. Help from a family member or friend</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH051728</td> </tr> <tr> <td>d. Help from online resources (for example, websites or apps)</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH051729</td> </tr> </tbody> </table> <p>Issue: Resources for Learning and Instruction</p>		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. Help from a teacher	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH051725	b. Help from a tutor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH051726	c. Help from a family member or friend	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH051728	d. Help from online resources (for example, websites or apps)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH051729	A	<p>This item was added in place of VH336233. This item was pretested and kept in Reading, and to ensure consistency, the same decision was made for math.</p>
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c. Help from a family member or friend	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH051728																																
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N/A	<p>8. How useful do you find each of the following types of help to understand your math schoolwork? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Not useful at all</th> <th>Somewhat useful</th> <th>Very useful</th> <th>I don't receive that type of help.</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Help from a teacher</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH051733</td> </tr> <tr> <td>b. Help from a tutor</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH051734</td> </tr> <tr> <td>c. Help from a family member or friend</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH051736</td> </tr> <tr> <td>d. Help from online resources (for example, websites or apps)</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH051737</td> </tr> </tbody> </table> <p>Issue: Resources for Learning and Instruction</p>		Not useful at all	Somewhat useful	Very useful	I don't receive that type of help.		a. Help from a teacher	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH051733	b. Help from a tutor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH051734	c. Help from a family member or friend	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH051736	d. Help from online resources (for example, websites or apps)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH051737	A	<p>This item was added in place of VH336233. This item was pretested and kept in Reading, and to ensure consistency, the same decision was</p>					
	Not useful at all	Somewhat useful	Very useful	I don't receive that type of help.																																		
a. Help from a teacher	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH051733																																	
b. Help from a tutor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH051734																																	
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d. Help from online resources (for example, websites or apps)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH051737																																	

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

2019 Pilot Grade 4 Mathematics Student

Previous item	2019 item	D/A/ R/NC+	Rationale
			made for math.

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

Appendix K-1ad: Pilot Grade 4 Mathematics

1. 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

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

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

- Ⓐ Yes
Ⓑ No

4. 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

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 math?

- Ⓐ Never
- Ⓑ Once
- Ⓒ Two or three times
- Ⓓ Four or five times
- Ⓔ More than five times

6. 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

7. How often do you receive the following types of help with math schoolwork **outside of school or after 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. Help from a teacher	(A)	(B)	(C)	(D)	(E)	VH853725
b. Help from a tutor	(A)	(B)	(C)	(D)	(E)	VH853726
c. Help from a family member or friend	(A)	(B)	(C)	(D)	(E)	VH853728
d. Help from online resources (for example, websites or apps)	(A)	(B)	(C)	(D)	(E)	VH853729

8. How useful do you find each of the following types of help to understand your math schoolwork? Select **one** answer choice on each row.

	Not useful at all	Somewhat useful	Very useful	I don't receive that type of help.	
a. Help from a teacher	(A)	(B)	(C)	(D)	VH853733
b. Help from a tutor	(A)	(B)	(C)	(D)	VH853734
c. Help from a family member or friend	(A)	(B)	(C)	(D)	VH853736
d. Help from online resources (for example, websites or apps)	(A)	(B)	(C)	(D)	VH853737

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 about math in my class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH853957
b. I want to master a lot of new math skills in my class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH853961
c. I want to become a better math student this year.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH853949
d. I want to understand as much as I can in my math class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH853952

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.	(A)	(B)	(C)	(D)	(E)	VH854029
b. I look forward to my math class.	(A)	(B)	(C)	(D)	(E)	VH854030
c. I am interested in the things I learn in math.	(A)	(B)	(C)	(D)	(E)	VH854034
d. I think making an effort in math is worthwhile.	(A)	(B)	(C)	(D)	(E)	VH854031
e. I think math will help me even when I am not in school.	(A)	(B)	(C)	(D)	(E)	VH854036
f. I think it is important to do well in math.	(A)	(B)	(C)	(D)	(E)	VH854033

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 a good math student.	(A)	(B)	(C)	(D)	(E)	VH854117
b. I want to show others that my math schoolwork is easy for me.	(A)	(B)	(C)	(D)	(E)	VH854118
c. I want to look smart in comparison to the other students in my math class.	(A)	(B)	(C)	(D)	(E)	VH854119
d. I want to get better math grades than most other students in my class.	(A)	(B)	(C)	(D)	(E)	VH854134

12. 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 go on websites or use apps when teaching math to my class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH810476
b. My teacher required us to use computers or other digital devices to go on websites or use apps to complete math assignments.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH810477

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. Estimate the weight of 5 apples using pounds (lb)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH858273
b. Share 42 stickers equally among 6 students	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH810864
c. Find the amount of carpet needed to cover a rectangular floor if you know its length and width	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH267682
d. Calculate what time the movie ends if it starts at 11:00 AM and lasts for 2 hours and 45 minutes.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH810865

14. 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

Appendix K-1ae: Spiral Map Grade 4 Mathematics

Accnum	Grade	Grade 4 OMB PDF Sequence Number	Number of Grade 4 booklets item appears in	Grade 4 booklets item appears in
VH350115	4, 8	05_00	1	3
VH336231	4	04_00	1	3
VH268936	4, 8	14_00	3	1, 2, 3
VH460329	4, 8	06_00	3	1, 2, 3
VH854116	4, 8	11_00	1	3
VH854117	4, 8	11_01	1	3
VH854118	4, 8	11_02	1	3
VH854119	4, 8	11_03	1	3
VH854134	4, 8	11_04	1	3
VH853944	4, 8	09_00	1	3
VH853957	4, 8	09_01	1	3
VH853961	4, 8	09_02	1	3
VH853949	4, 8	09_03	1	3
VH853952	4, 8	09_04	1	3
VH854028	4, 8	10_00	1	3
VH854029	4, 8	10_01	1	3
VH854030	4, 8	10_02	1	3
VH854034	4, 8	10_03	1	3
VH854031	4, 8	10_04	1	3
VH854036	4, 8	10_05	1	3
VH854033	4, 8	10_06	1	3
VH336085	4, 8	03_00	3	1, 2, 3
VH269037	4, 8	02_00	3	1, 2, 3
VH853724	4, 8	07_00	2	1, 2
VH853725	4, 8	07_01	2	1, 2
VH853726	4, 8	07_02	2	1, 2
VH853728	4, 8	07_03	2	1, 2
VH853729	4, 8	07_04	2	1, 2

Accnum	Grade	Grade 4 OMB PDF Sequence Number	Number of Grade 4 booklets item appears in	Grade 4 booklets item appears in
VH853732	4, 8	08_00	2	1, 2
VH853733	4, 8	08_01	2	1, 2
VH853734	4, 8	08_02	2	1, 2
VH853736	4, 8	08_03	2	1, 2
VH853737	4, 8	08_04	2	1, 2
VH882494	4, 8	12_00	2	1, 2
VH810476	4, 8	12_01	2	1, 2
VH810477	4, 8	12_02	2	1, 2
VH882502	4	13_00	2	1, 2
VH858273	4	13_01	2	1, 2
VH810864	4	13_02	2	1, 2
VH267682	4, 8	13_03	2	1, 2
VH810865	4	13_04	2	1, 2
VH268945	4, 8	01_00	1	3
VH268946	4, 8	01_01	1	3
VH268961	4, 8	01_02	1	3
VH268962	4, 8	01_03	1	3

Appendix K-1af: Summary of Changes Operational Grade 8 Mathematics

2019 Operational Grade 8 Mathematics Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p>1. What math class are you taking this year? Select one or more answer choices.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Eighth-grade math <input type="checkbox"/> General eighth-grade math <input type="checkbox"/> Algebra I course <input type="checkbox"/> First year of a two-year algebra course <input type="checkbox"/> Second year of a two-year algebra course <input type="checkbox"/> Algebra I (one-year course) <input type="checkbox"/> Algebra II <input type="checkbox"/> Geometry <input type="checkbox"/> Other <p>(2017 Grade 8)</p>	<p>22. What math class are you taking this year? Select one or more answer choices.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Eighth-grade math <input type="checkbox"/> General eighth-grade math <input type="checkbox"/> Algebra I course <input type="checkbox"/> First year of a two-year algebra course <input type="checkbox"/> Second year of a two-year algebra course <input type="checkbox"/> Algebra I (one-year course) <input type="checkbox"/> Algebra II <input type="checkbox"/> Geometry <input type="checkbox"/> Other <p>Issue: Organization of Instruction</p>	NC	N/A
<p>2. What math class do you expect to take next year?</p> <ul style="list-style-type: none"> <input type="checkbox"/> Geometry <input type="checkbox"/> Algebra II <input type="checkbox"/> Algebra I (one-year course) <input type="checkbox"/> First year of a two-year Algebra I course <input type="checkbox"/> Second year of a two-year Algebra I course <input type="checkbox"/> Introduction to algebra or pre-algebra <input type="checkbox"/> Basic or general math <input type="checkbox"/> Business or consumer math <input type="checkbox"/> Other math class <input type="checkbox"/> I don't know. <p>(2017 Grade 8)</p>	<p>23. What math class do you expect to take next year?</p> <ul style="list-style-type: none"> <input type="checkbox"/> Geometry <input type="checkbox"/> Algebra II <input type="checkbox"/> Algebra I (one-year course) <input type="checkbox"/> First year of a two-year Algebra I course <input type="checkbox"/> Second year of a two-year Algebra I course <input type="checkbox"/> Introduction to algebra or pre-algebra <input type="checkbox"/> Basic or general math <input type="checkbox"/> Business or consumer math <input type="checkbox"/> Other math class <input type="checkbox"/> I don't know. <p>Issue: Organization of Instruction</p>	NC	N/A
<p>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?</p> <ul style="list-style-type: none"> <input type="checkbox"/> Never <input type="checkbox"/> Once <input type="checkbox"/> Two or three times <input type="checkbox"/> Four or five times <input type="checkbox"/> More than five times <p>(2017 Grade 8)</p>	<p>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 math?</p> <ul style="list-style-type: none"> <input type="checkbox"/> Never <input type="checkbox"/> Once <input type="checkbox"/> Two or three times <input type="checkbox"/> Four or five times <input type="checkbox"/> More than five times <p>Issue: Organization of Instruction</p>	NC	N/A

2019 Operational Grade 8 Mathematics Student

Previous item	2019 item	D/A/R/NC+	Rationale																																										
<p style="text-align: right; font-size: small;">VHS5016</p> <p>4. For school this year, how often do you work in pairs or small groups to talk about something that you have done in math?</p> <p>Ⓐ Never</p> <p>Ⓑ About once or twice a year</p> <p>Ⓒ About once or twice a month</p> <p>Ⓓ About once or twice a week</p> <p>Ⓔ Every day or almost every day</p> <p>(2017 Grade 8)</p>	<p>N/A</p>	<p>D</p>	<p>This item was dropped based on the ADC’s recommendat ion.</p>																																										
<p style="text-align: right; font-size: small;">VHS6751</p> <p>5. How often do you use a computer or other digital device (excluding handheld calculators) for math at school?</p> <p>Ⓐ Never</p> <p>Ⓑ About once or twice a year</p> <p>Ⓒ About once or twice a month</p> <p>Ⓓ About once or twice a week</p> <p>Ⓔ Every day or almost every day</p> <p>(2017 Grade 8)</p>	<p>N/A</p>	<p>D</p>	<p>This item was dropped based on NCES’s review of technology-use items.</p>																																										
<p style="text-align: right; font-size: small;">VHS6233</p> <p>6. How often do you receive help or tutoring with math outside of school or after school?</p> <p>Ⓐ Never</p> <p>Ⓑ About once or twice a year</p> <p>Ⓒ About once or twice a month</p> <p>Ⓓ About once or twice a week</p> <p>Ⓔ Every day or almost every day</p> <p>(2017 Grade 8)</p>	<p style="text-align: right; font-size: small;">VHS6233</p> <p>30. How often do you receive help or tutoring with math outside of school or after school?</p> <p>Ⓐ Never</p> <p>Ⓑ About once or twice a year</p> <p>Ⓒ About once or twice a month</p> <p>Ⓓ About once or twice a week</p> <p>Ⓔ Every day or almost every day</p> <p>Issue: Resources for Learning and Instruction</p>	<p>NC</p>	<p>N/A</p>																																										
<p style="text-align: right; font-size: small;">VHS6808</p> <p>7. In your math class this year, how often have you used the following types of calculators? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Never or hardly ever</th> <th>Less than half of the time</th> <th>About half of the time</th> <th>More than half of the time</th> <th>All or almost all of the time</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Basic calculator</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-x-small;">VHS6809</td> </tr> <tr> <td>b. Graphing calculator</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-x-small;">VHS6810</td> </tr> </tbody> </table> <p>(2017 Grade 8)</p>		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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VHS6809	b. Graphing calculator	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VHS6810	<p style="text-align: right; font-size: small;">VHS6808</p> <p>25. In your math class this year, how often have you used the following types of calculators? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Never or hardly ever</th> <th>Less than half of the time</th> <th>About half of the time</th> <th>More than half of the time</th> <th>All or almost all of the time</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Basic calculator</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-x-small;">VHS6809</td> </tr> <tr> <td>b. Graphing calculator</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-x-small;">VHS6810</td> </tr> </tbody> </table> <p>Issue: Resources for Learning and Instruction</p>		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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VHS6809	b. Graphing calculator	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VHS6810	<p>NC</p>	<p>N/A</p>
	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																																								
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2019 Operational Grade 8 Mathematics Student

Previous item	2019 item	D/A/ R/NC+	Rationale																																																																						
<p>8. This school year, how often did the following things happen in your math class? Select one answer choice on each row. VHS9166</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 15%;"></th> <th style="width: 10%;">Never or hardly ever</th> <th style="width: 10%;">Less than half of the time</th> <th style="width: 10%;">About half of the time</th> <th style="width: 10%;">More than half of the time</th> <th style="width: 10%;">All or almost all of the time</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td style="font-size: x-small;">a. My teacher used computers or other digital devices to show us how to work through math problems.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VHS67118</td> </tr> <tr> <td style="font-size: x-small;">b. 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My teacher required us to use computers or other digital devices to complete math assignments.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VHS67119</td> </tr> </tbody> </table> <p>(2017 Grade 8)</p>		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.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VHS67118	b. I used the Internet for my math work.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VHS67117	c. 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VHS9166</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 15%;"></th> <th style="width: 10%;">Never or hardly ever</th> <th style="width: 10%;">Less than half of the time</th> <th style="width: 10%;">About half of the time</th> <th style="width: 10%;">More than half of the time</th> <th style="width: 10%;">All or almost all of the time</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td style="font-size: x-small;">a. My teacher used computers or other digital devices to show us how to work through math problems.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VHS67416</td> </tr> <tr> <td style="font-size: x-small;">b. 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<p style="text-align: right; font-size: small;">VH617207</p> <p>11. In this school year, how often have you used a computer or other digital device (excluding handheld calculators) to take an online practice test?</p> <p>Ⓐ Never Ⓑ Once Ⓒ Two or three times Ⓓ Four or five times Ⓔ More than five times</p> <p>(2017 Grade 8)</p>	<p>N/A</p>	<p>D</p>	<p>This item was dropped based on NCES’s review of technology-use items.</p>																																																																						
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List all of the different possible outcomes when a coin is flipped three times	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH460383	c. Determine a 20 percent tip of a 67-dollar restaurant dinner bill	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH267679	d. Find the amount of carpet needed to cover a rectangular floor if you know its length and width	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH267683	e. 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a. Estimate the weight of 5 apples using pounds (lbs.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH26764																																																																																																						
b. Divide 42 stickers among 6 students	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH807317																																																																																																						
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d. Describe the properties shared by every isosceles right triangle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH267681																																																																																																						
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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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH267683																																																																																																						
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2019 Operational Grade 8 Mathematics Student

Previous item	2019 item	D/A/R/NC+	Rationale																																																																																				
<p>24. 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.</p> <p style="text-align: right; font-size: small;">VH61351</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>I definitely can't</th> <th>I probably can't</th> <th>Maybe</th> <th>I probably can</th> <th>I definitely can</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Create an expression that represents the average number of miles you run in a week if you run 100 miles in w weeks</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH660383</td> </tr> <tr> <td>b. 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Explain how you know the number of books you can buy if you know the price of each book and you have \$35</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH660391</td> </tr> </tbody> </table> <p>25. Thinking about math, do you think that you would be able to do each of the following? Select one answer choice on each row.</p> <p style="text-align: right; font-size: small;">VH61352</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>I definitely can't</th> <th>I probably can't</th> <th>Maybe</th> <th>I probably can</th> <th>I definitely can</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. 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2019 Operational Grade 8 Mathematics Student

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2019 Operational Grade 8 Mathematics Student

Previous item	2019 item	D/A/R/NC+	Rationale																																																																																																		
<p>19. How much do you enjoy solving each of the following types of math problems? Select one answer choice on each row. VH05798</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Enjoy not at all</th> <th>Enjoy a little bit</th> <th>Enjoy somewhat</th> <th>Enjoy quite a bit</th> <th>Enjoy a lot</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Addition, subtraction, multiplication, and division</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH067499</td> </tr> <tr> <td>b. Finding areas of shapes and figures</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH067501</td> </tr> <tr> <td>c. Solving for probabilities and events (for example, card, coin, marble, and spinner problems)</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH067502</td> </tr> <tr> <td>d. Solving equations or simplifying expressions</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH067503</td> </tr> <tr> <td>e. Constructing and building different types of graphs (for example, bar graph, line graph, or box and whisker plots)</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH067504</td> </tr> <tr> <td>f. Working with geometric figures like rectangles and squares</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH067505</td> </tr> </tbody> </table> <p style="margin-top: 20px;">(2017 Grade 8)</p>		Enjoy not at all	Enjoy a little bit	Enjoy somewhat	Enjoy quite a bit	Enjoy a lot		a. Addition, subtraction, multiplication, and division	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH067499	b. Finding areas of shapes and figures	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH067501	c. Solving for probabilities and events (for example, card, coin, marble, and spinner problems)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH067502	d. Solving equations or simplifying expressions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH067503	e. Constructing and building different types of graphs (for example, bar graph, line graph, or box and whisker plots)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH067504	f. Working with geometric figures like rectangles and squares	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH067505	<p>40. How much do you enjoy each of the following types of math activities? Select one answer choice on each row. VH04703</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Enjoy not at all</th> <th>Enjoy a little bit</th> <th>Enjoy somewhat</th> <th>Enjoy quite a bit</th> <th>Enjoy a lot</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Addition, subtraction, multiplication, and division</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH04744</td> </tr> <tr> <td>b. Finding areas of shapes and figures</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH04745</td> </tr> <tr> <td>c. Solving for probabilities and events (for example, card, coin, marble, and spinner problems)</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH04746</td> </tr> <tr> <td>d. Solving equations or simplifying expressions</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH04750</td> </tr> <tr> <td>e. Constructing and building different types of graphs (for example, bar graph, line graph, or box and whisker plots)</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH04748</td> </tr> <tr> <td>f. Working with geometric figures like rectangles and squares</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH04749</td> </tr> </tbody> </table> <p style="margin-top: 20px;">Issue: Student Factors</p>		Enjoy not at all	Enjoy a little bit	Enjoy somewhat	Enjoy quite a bit	Enjoy a lot		a. Addition, subtraction, multiplication, and division	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH04744	b. Finding areas of shapes and figures	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH04745	c. Solving for probabilities and events (for example, card, coin, marble, and spinner problems)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH04746	d. Solving equations or simplifying expressions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH04750	e. Constructing and building different types of graphs (for example, bar graph, line graph, or box and whisker plots)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH04748	f. Working with geometric figures like rectangles and squares	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH04749	<p>R</p>	<p>The stem wording was revised to remove the word “solving” as per ADC feedback that the stem did not match rows E and F in the previous phrasing. Additionally, "problems" was replaced with "activities" to better match the sub-item content. This revision was made based on coglab data gathered on this item for the 2021 administration.</p>
	Enjoy not at all	Enjoy a little bit	Enjoy somewhat	Enjoy quite a bit	Enjoy a lot																																																																																																
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b. Finding areas of shapes and figures	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH067501																																																																																															
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2019 Operational Grade 8 Mathematics Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right; font-size: small;">VH460329</p> <p>20. How often do you play digital games (for example, apps, video games, or computer games) outside of school that involve math?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>(2017 Grade 8)</p>	<p style="text-align: right; font-size: small;">VH460329</p> <p>35. How often do you play digital games (for example, apps, video games, or computer games) outside of school that involve math?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>Issue: Resources for Learning and Instruction</p>	NC	N/A
<p style="text-align: right; font-size: small;">VH460337</p> <p>21. How often do you use a computer, tablet, smartphone, or gaming console outside of school to play educational games that involve math?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>(2017 Grade 8)</p>	N/A	D	This item was dropped based on NCEs’s review of technology-use items.
<p style="text-align: right; font-size: small;">VH460341</p> <p>22. How often do you use a computer, tablet, smartphone, or gaming console outside of school to play popular games that involve math?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>(2017 Grade 8)</p>	N/A	D	This item was dropped based on NCEs’s review of technology-use items.
<p style="text-align: right; font-size: small;">VH460923</p> <p>26. Have you ever participated in a math study group outside of school?</p> <ul style="list-style-type: none"> <input type="radio"/> Yes <input type="radio"/> No <p>(2017 Grade 8)</p>	<p style="text-align: right; font-size: small;">VH460923</p> <p>33. Have you ever participated in a math study group outside of school?</p> <ul style="list-style-type: none"> <input type="radio"/> Yes <input type="radio"/> No <p>Issue: Student factors</p>	NC	N/A
<p style="text-align: right; font-size: small;">VH460925</p> <p>27. Over the past seven days, how many days have you participated in a math study group outside of school? Enter the number of days.</p> <p style="margin-left: 20px;"><input style="width: 20px; height: 20px;" type="text"/></p> <p>(2017 Grade 8)</p>	<p style="text-align: right; font-size: small;">VH460925</p> <p>34. Over the past seven days, how many days have you participated in a math study group outside of school? Enter the number of days.</p> <p style="margin-left: 20px;"><input style="width: 20px; height: 20px;" type="text"/></p> <p>Issue: Student factors</p>	NC	N/A

2019 Operational Grade 8 Mathematics Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right; font-size: small;">V1860811</p> <p>28. Have you ever participated in a math study group at school?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p>(2017 Grade 8)</p>	N/A	D	This item was dropped based on the ADC's recommendation.
<p style="text-align: right; font-size: small;">V1860877</p> <p>29. Over the past seven days, how many days have you participated in a math study group at school? Enter the number of days.</p> <p><input type="text"/></p> <p>(2017 Grade 8)</p>	N/A	D	This item was dropped based on the ADC's recommendation.

Appendix K-1ag: Operational Grade 8 Mathematics

22. 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

23. 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

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 math?

- Ⓐ Never
- Ⓑ Once
- Ⓒ Two or three times
- Ⓓ Four or five times
- Ⓔ More than five times

25. 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)	(B)	(C)	(D)	(E)	VH266809
b. Graphing calculator	(A)	(B)	(C)	(D)	(E)	VH266810

26. 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.	(A)	(B)	(C)	(D)	(E)	VH267416
b. I used the Internet for my math work.	(A)	(B)	(C)	(D)	(E)	VH267417
c. My teacher used computers or other digital devices when teaching math to my class.	(A)	(B)	(C)	(D)	(E)	VH588077
d. My teacher required us to use computers or other digital devices to complete math assignments.	(A)	(B)	(C)	(D)	(E)	VH267419

27. 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

28. 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

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

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

- (A) Never
- (B) About once or twice a year
- (C) About once or twice a month
- (D) About once or twice a week
- (E) Every day or almost every day

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

- (A) Yes
- (B) No

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

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

- Ⓐ Yes
- Ⓑ No

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

35. 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

36. 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	(A)	(B)	(C)	(D)	(E)	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	(A)	(B)	(C)	(D)	(E)	VH460383
c. Determine a 20 percent tip of a 67-dollar restaurant dinner bill	(A)	(B)	(C)	(D)	(E)	VH267679
d. Find the amount of carpet needed to cover a rectangular floor if you know its length and width	(A)	(B)	(C)	(D)	(E)	VH267682
e. Give an example to show that a math statement is false	(A)	(B)	(C)	(D)	(E)	VH460399
f. Explain to your classmate how you solved a math problem	(A)	(B)	(C)	(D)	(E)	VH460910
g. Use correct mathematical words and symbols when showing your work	(A)	(B)	(C)	(D)	(E)	VH460902

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

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

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

40. 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 K-1ah: Summary of Changes Pilot Grade 8 Mathematics

2019 Pilot Grade 8 Mathematics Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p>25. What math class are you taking this year? Select one or more answer choices.</p> <p><input type="radio"/> Eighth-grade math</p> <p><input type="radio"/> General eighth-grade math</p> <p><input type="radio"/> Algebra I course</p> <p><input type="radio"/> First year of a two-year algebra course</p> <p><input type="radio"/> Second year of a two-year algebra course</p> <p><input type="radio"/> Algebra I (one-year course)</p> <p><input type="radio"/> Algebra II</p> <p><input type="radio"/> Geometry</p> <p><input type="radio"/> Other</p> <p>(2017 Grade 8)</p>	<p>8. What math class are you taking this year? Select one or more answer choices.</p> <p><input type="radio"/> Eighth-grade math</p> <p><input type="radio"/> Introduction to algebra or pre-algebra</p> <p><input type="radio"/> Algebra I</p> <p><input type="radio"/> Geometry</p> <p><input type="radio"/> Algebra II</p> <p><input type="radio"/> Other math class. Please specify: _____</p> <p>Issue: Organization of Instruction</p>	R	This item's response options were revised based on cognitive interviews and as recommended by NCES.
<p>26. What math class do you expect to take next year?</p> <p><input type="radio"/> Geometry</p> <p><input type="radio"/> Algebra II</p> <p><input type="radio"/> Algebra I (one-year course)</p> <p><input type="radio"/> First year of a two-year Algebra I course</p> <p><input type="radio"/> Second year of a two-year Algebra I course</p> <p><input type="radio"/> Introduction to algebra or pre-algebra</p> <p><input type="radio"/> Basic or general math</p> <p><input type="radio"/> Business or consumer math</p> <p><input type="radio"/> Other math class</p> <p><input type="radio"/> I don't know.</p> <p>(2017 Grade 8)</p>	<p>9. What math class do you expect to take next year?</p> <p><input type="radio"/> Basic or general math</p> <p><input type="radio"/> Introduction to algebra or pre-algebra</p> <p><input type="radio"/> Algebra I</p> <p><input type="radio"/> Geometry</p> <p><input type="radio"/> Algebra II</p> <p><input type="radio"/> Other math class. Please specify: _____</p> <p><input type="radio"/> I don't know.</p> <p>Issue: Organization of Instruction</p>	R	This item's response options were revised based on cognitive interviews and as recommended by NCES.
<p>27. 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?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> Once</p> <p><input type="radio"/> Two or three times</p> <p><input type="radio"/> Four or five times</p> <p><input type="radio"/> More than five times</p> <p>(2017 Grade 8)</p>	<p>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 math?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> Once</p> <p><input type="radio"/> Two or three times</p> <p><input type="radio"/> Four or five times</p> <p><input type="radio"/> More than five times</p> <p>Issue: Organization of Instruction</p>	NC	N/A

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

2019 Pilot Grade 8 Mathematics Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right;"><small>VH853718</small></p> <p>28. For school this year, how often do you work in pairs or small groups to talk about something that you have done in math?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>(2017 Grade 8)</p>	N/A	D	This item was dropped based on the ADC's recommendation.
<p style="text-align: right;"><small>VH26754</small></p> <p>29. How often do you use a computer or other digital device (excluding handheld calculators) for math at school?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>(2017 Grade 8)</p>	N/A	D	This item was dropped based on NCE's review of technology-use items.
<p style="text-align: right;"><small>VH30423</small></p> <p>30. How often do you receive help or tutoring with math outside of school or after school?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>(2017 Grade 8)</p>	N/A	D	This item was dropped in place of keeping VH853724, as per similar recommendations made for Reading based on pretesting and to ensure consistency across subjects.

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

2019 Pilot Grade 8 Mathematics Student

Previous item	2019 item	D/A/R/NC+	Rationale																																																																						
<p>31. In your math class this year, how often have you used the following types of calculators? Select one answer choice on each row.</p> <p style="text-align: right; font-size: small;">V1D26408</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Never or hardly ever</th> <th>Less than half of the time</th> <th>About half of the time</th> <th>More than half of the time</th> <th>All or almost all of the time</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Basic calculator</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">V1D26609</td> </tr> <tr> <td>b. Graphing calculator</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">V1D26610</td> </tr> </tbody> </table> <p>(2017 Grade 8)</p>		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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1D26609	b. Graphing calculator	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1D26610	<p>19. In your math class this year, how often have you used the following types of calculators? Select one answer choice on each row.</p> <p style="text-align: right; font-size: small;">V1B2740</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Never or hardly ever</th> <th>Less than half of the time</th> <th>About half of the time</th> <th>More than half of the time</th> <th>All or almost all of the time</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Basic calculator (for example, four function or scientific)</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">V1B25323</td> </tr> <tr> <td>b. Graphing calculator</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">V1B26610</td> </tr> </tbody> </table> <p>Issue: Resources for Learning and Instruction</p>		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 (for example, four function or scientific)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1B25323	b. Graphing calculator	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1B26610	R	<p>Sub-item “a” was revised to give examples of what is meant by a basic calculator.</p>																												
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<p>32. This school year, how often did the following things happen in your math class? Select one answer choice on each row.</p> <p style="text-align: right; font-size: small;">V1B2716</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Never or hardly ever</th> <th>Less than half of the time</th> <th>About half of the time</th> <th>More than half of the time</th> <th>All or almost all of the time</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. My teacher used computers or other digital devices to show us how to work through math problems.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">V1E27416</td> </tr> <tr> <td>b. 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<p style="text-align: right; font-size: small;">V1016407</p> <p>34. 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?</p> <p> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day </p> <p>(2017 Grade 8)</p>	<p style="text-align: right; font-size: small;">V1010512</p> <p>10. In this school year, how often have you looked online for resources for help with your math assignments?</p> <p> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day </p> <p>Issue: Resources for learning and instruction</p>	R	<p>The item stem was revised.</p>																																																																						
<p style="text-align: right; font-size: small;">V1017207</p> <p>35. In this school year, how often have you used a computer or other digital device (excluding handheld calculators) to take an online practice test?</p> <p> <input type="radio"/> Never <input type="radio"/> Once <input type="radio"/> Two or three times <input type="radio"/> Four or five times <input type="radio"/> More than five times </p> <p>(2017 Grade 8)</p>	<p>N/A</p>	D	<p>This item was dropped based on NCEs’s review of technology-use items.</p>																																																																						
<p style="text-align: right; font-size: small;">V1020926</p> <p>36. How often do you use math in everyday life outside of school?</p> <p> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day </p> <p>(2017 Grade 8)</p>	<p style="text-align: right; font-size: small;">V1020926</p> <p>1. How often do you use math in everyday life outside of school?</p> <p> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day </p> <p>Issue: Resources for Learning and Instruction</p>	NC	<p>N/A</p>																																																																						
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<p>38. Have you ever helped your friends with their math homework?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p>(2017 Grade 8)</p>	<p>3. Have you ever helped your friends with their math homework?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p>Issue: Resources for Learning and Instruction</p>	NC	N/A
<p>39. Over the past seven days, how many days have you helped your friends with their math homework? Enter the number of days.</p> <p><input type="text"/></p> <p>(2017 Grade 8)</p>	<p>2. Over the past seven days, how many days have you helped your friends with their math homework? Enter the number of days.</p> <p><input type="text"/></p> <p>Issue: Resources for Learning and Instruction</p>	NC	N/A

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2019 Pilot Grade 8 Mathematics Student

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2019 Pilot Grade 8 Mathematics Student

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	<p>17. How much does each of the following statements describe you? Select one answer choice on each row. VH85416</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Not at all like me</th> <th>A little bit like me</th> <th>Somewhat like me</th> <th>Quite a bit like me</th> <th>Exactly like me</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. I want other students to think I am a good math student.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH85417</td> </tr> <tr> <td>b. I want to show others that my math schoolwork is easy for me.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH85418</td> </tr> <tr> <td>c. I want to look smart in comparison to the other students in my math class.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH85419</td> </tr> <tr> <td>d. I want to get better math grades than most other students in my class.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH85424</td> </tr> </tbody> </table> <p>Issue: Student Factors</p>		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 math student.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH85417	b. I want to show others that my math schoolwork is easy for me.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH85418	c. I want to look smart in comparison to the other students in my math class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH85419	d. I want to get better math grades than most other students in my class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH85424		and VH845134 were added from the 2016 pilot assessment. The stem was revised from “describe a person like you” to “describe you”.																																																															
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<p>43. How much do you enjoy solving each of the following types of math problems? Select one answer choice on each row. VID07498</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Enjoy not at all</th> <th>Enjoy a little bit</th> <th>Enjoy somewhat</th> <th>Enjoy quite a bit</th> <th>Enjoy a lot</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Addition, subtraction, multiplication, and division</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VHS67499</td> </tr> <tr> <td>b. Finding areas of shapes and figures</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VHS67501</td> </tr> <tr> <td>c. Solving for probabilities and events (for example, card, coin, marble, and spinner problems)</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VHS67502</td> </tr> <tr> <td>d. Solving equations or simplifying expressions</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VHS67503</td> </tr> <tr> <td>e. Constructing and building different types of graphs (for example, bar graph, line graph, or box and whisker plots)</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VHS67504</td> </tr> <tr> <td>f. Working with geometric figures like rectangles and squares</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">VHS67505</td> </tr> </tbody> </table> <p style="margin-top: 10px;">(2017 Grade 8)</p>		Enjoy not at all	Enjoy a little bit	Enjoy somewhat	Enjoy quite a bit	Enjoy a lot		a. Addition, subtraction, multiplication, and division	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VHS67499	b. Finding areas of shapes and figures	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VHS67501	c. Solving for probabilities and events (for example, card, coin, marble, and spinner problems)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VHS67502	d. 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<p>20. How often do you play digital games (for example, apps, video games, or computer games) outside of school that involve math? VHS00328</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p style="margin-top: 10px;">(2017 Grade 8)</p>	<p>5. How often do you play digital games (for example, apps, video games, or computer games) outside of school that involve math? VHS00329</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p style="margin-top: 10px;">Issue: Resources for Learning and Instruction</p>	NC	N/A																																																																																																		

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<p>26. Have you ever participated in a math study group outside of school?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p>(2017 Grade 8)</p>	<p>6. Have you ever participated in a math study group outside of school?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p>Issue: Student factors</p>	NC	N/A																																			
<p>27. Over the past seven days, how many days have you participated in a math study group outside of school? Enter the number of days.</p> <p><input style="width: 30px; height: 20px;" type="text"/></p> <p>(2017 Grade 8)</p>	<p>7. Over the past seven days, how many days have you participated in a math study group outside of school? Enter the number of days.</p> <p><input style="width: 30px; height: 20px;" type="text"/></p> <p>Issue: Student factors</p>	NC	N/A																																			
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2019 Pilot Grade 8 Mathematics Student

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Appendix K-1ai: Pilot Grade 8 Mathematics

1. 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

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

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

- Ⓐ Yes
- Ⓑ No

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 math?

- Ⓐ Never
- Ⓑ Once
- Ⓒ Two or three times
- Ⓓ Four or five times
- Ⓔ More than five times

5. 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

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

- Ⓐ Yes
- Ⓑ No

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

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

- Ⓐ Eighth-grade math
- Ⓑ Introduction to algebra or pre-algebra
- Ⓒ Algebra I
- Ⓓ Geometry
- Ⓔ Algebra II
- Ⓕ Other math class. Please specify: _____

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

- Ⓐ Basic or general math
- Ⓑ Introduction to algebra or pre-algebra
- Ⓒ Algebra I
- Ⓓ Geometry
- Ⓔ Algebra II
- Ⓕ Other math class. Please specify: _____
- Ⓖ I don't know.

10. In this school year, how often have you looked 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

11. 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. Adding, subtracting, multiplying, and dividing fractions	(A)	(B)	(C)	(D)	(E)	VH810635
b. Finding areas of shapes and figures	(A)	(B)	(C)	(D)	(E)	VH853661
c. Solving for probabilities and events (for example, card, coin, marble, and spinner problems)	(A)	(B)	(C)	(D)	(E)	VH853662
d. Solving problems about ratios and rates (for example, if 4 inches of rain fell in 16 hours, how many inches fell in 1 hour?)	(A)	(B)	(C)	(D)	(E)	VH853665
e. Constructing and building different types of graphs (for example, a bar graph or line graph)	(A)	(B)	(C)	(D)	(E)	VH853674
f. Moving geometric figures from one set of points to another (for example, rotating a rectangle 90 degrees)	(A)	(B)	(C)	(D)	(E)	VH853671

12. 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. Find the amount of carpet needed to cover a rectangular floor if you know its length and width	(A)	(B)	(C)	(D)	(E)	VH267682
b. Determine a 20% tip of a \$55 restaurant dinner bill	(A)	(B)	(C)	(D)	(E)	VH853690
c. List all of the different possible outcomes when a coin is flipped three times	(A)	(B)	(C)	(D)	(E)	VH853692
d. Determine the likely number of red faces a cube has if the red face lands up 130 out of 400 times the cube is rolled. The 6 faces of the cube are painted red, yellow, or blue.	(A)	(B)	(C)	(D)	(E)	VH853683
e. Create an expression that represents the average number of miles you run in a week if you run 100 miles in w weeks	(A)	(B)	(C)	(D)	(E)	VH853693
f. Calculate how many cats a pet store has if the ratio of cats to dogs is 5 to 4, and the total number of cats and dogs the store has is 27	(A)	(B)	(C)	(D)	(E)	VH853685
g. Write an equation with a variable to solve a problem (for example, if pizza costs \$2 per slice, then x number of slices can be bought for \$16)	(A)	(B)	(C)	(D)	(E)	VH853713
h. Find the total sum of the interior angles of a pentagon with 5 equal sides	(A)	(B)	(C)	(D)	(E)	VH853714

13. How often do you receive the following types of help with math schoolwork **outside of school or after 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. Help from a teacher	(A)	(B)	(C)	(D)	(E)	VH853725
b. Help from a tutor	(A)	(B)	(C)	(D)	(E)	VH853726
c. Help from a family member or friend	(A)	(B)	(C)	(D)	(E)	VH853728
d. Help from online resources (for example, websites or apps)	(A)	(B)	(C)	(D)	(E)	VH853729

14. How useful do you find each of the following types of help to understand your math schoolwork? Select **one** answer choice on each row.

	Not useful at all	Somewhat useful	Very useful	I don't receive that type of help.	
a. Help from a teacher	(A)	(B)	(C)	(D)	VH853733
b. Help from a tutor	(A)	(B)	(C)	(D)	VH853734
c. Help from a family member or friend	(A)	(B)	(C)	(D)	VH853736
d. Help from online resources (for example, websites or apps)	(A)	(B)	(C)	(D)	VH853737

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	Exactly like me	
a. I want to learn as much as possible about math in my class.	(A)	(B)	(C)	(D)	(E)	VH853957
b. I want to master a lot of new math skills in my class.	(A)	(B)	(C)	(D)	(E)	VH853961
c. I want to become a better math student this year.	(A)	(B)	(C)	(D)	(E)	VH853949
d. I want to understand as much as I can in my math class.	(A)	(B)	(C)	(D)	(E)	VH853952

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	Exactly like me	
a. I enjoy doing math.	(A)	(B)	(C)	(D)	(E)	VH854029
b. I look forward to my math class.	(A)	(B)	(C)	(D)	(E)	VH854030
c. I am interested in the things I learn in math.	(A)	(B)	(C)	(D)	(E)	VH854034
d. I think making an effort in math is worthwhile.	(A)	(B)	(C)	(D)	(E)	VH854031
e. I think math will help me even when I am not in school.	(A)	(B)	(C)	(D)	(E)	VH854036
f. I think it is important to do well in math.	(A)	(B)	(C)	(D)	(E)	VH854033

17. 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 a good math student.	(A)	(B)	(C)	(D)	(E)	VH854117
b. I want to show others that my math schoolwork is easy for me.	(A)	(B)	(C)	(D)	(E)	VH854118
c. I want to look smart in comparison to the other students in my math class.	(A)	(B)	(C)	(D)	(E)	VH854119
d. I want to get better math grades than most other students in my class.	(A)	(B)	(C)	(D)	(E)	VH854134

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	(A)	(B)	(C)	(D)	(E)	VH268946
b. Write a computer program	(A)	(B)	(C)	(D)	(E)	VH858371
c. Play an instrument and read music	(A)	(B)	(C)	(D)	(E)	VH268961
d. Go to websites for help with your math homework	(A)	(B)	(C)	(D)	(E)	VH268962

19. 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 (for example, four function or scientific)	(A)	(B)	(C)	(D)	(E)	VH853523
b. Graphing calculator	(A)	(B)	(C)	(D)	(E)	VH266810

20. 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 to go on websites or use apps when teaching math to my class.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH810476
d. My teacher required us to use computers or other digital devices to go on websites or use apps to complete math assignments.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH810477

21. 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. Give an example to show that a math statement is false	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH460399
b. Explain to your classmate how you solved a math problem	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH460910
c. Use correct mathematical words and symbols when showing your work	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH460902

Appendix K-1aj: Spiral Map Grade 8 Mathematics

Accnum	Grade	Grade 8 OMB PDF Sequence Number	Number of Grade 8 booklets item appears in	Grade 8 booklets item appears in
VH350115	4, 8	04_00	1	3
VH268936	4, 8	01_00	3	1, 2, 3
VH460329	4, 8	05_00	3	1, 2, 3
VH854116	4, 8	17_00	1	3
VH854117	4, 8	17_01	1	3
VH854118	4, 8	17_02	1	3
VH854119	4, 8	17_03	1	3
VH854134	4, 8	17_04	1	3
VH853944	4, 8	15_00	1	3
VH853957	4, 8	15_01	1	3
VH853961	4, 8	15_02	1	3
VH853949	4, 8	15_03	1	3
VH853952	4, 8	15_04	1	3
VH854028	4, 8	16_00	1	3
VH854029	4, 8	16_01	1	3
VH854030	4, 8	16_02	1	3
VH854034	4, 8	16_03	1	3
VH854031	4, 8	16_04	1	3
VH854036	4, 8	16_05	1	3
VH854033	4, 8	16_06	1	3
VH336085	4, 8	03_00	3	1, 2, 3
VH269037	4, 8	02_00	3	1, 2, 3
VH853724	4, 8	13_00	2	1, 2
VH853725	4, 8	13_01	2	1, 2
VH853726	4, 8	13_02	2	1, 2
VH853728	4, 8	13_03	2	1, 2
VH853729	4, 8	13_04	2	1, 2

Accnum	Grade	Grade 8 OMB PDF Sequence Number	Number of Grade 8 booklets item appears in	Grade 8 booklets item appears in
VH853732	4, 8	14_00	2	1, 2
VH853733	4, 8	14_01	2	1, 2
VH853734	4, 8	14_02	2	1, 2
VH853736	4, 8	14_03	2	1, 2
VH853737	4, 8	14_04	2	1, 2
VH810501	8	08_00	2	1, 2
VH810507	8	09_00	2	1, 2
VH882460	8	19_00	1	3
VH853523	8	19_01	1	3
VH266810	8	19_02	1	3
VH882471	4, 8	20_00	1	3
VH267416	8	20_01	1	3
VH267417	8	20_02	1	3
VH810476	4, 8	20_03	1	3
VH810477	4, 8	20_04	1	3
VH810512	8	10_00	1	3
VH810625	8	11_00	2	1, 2
VH810635	8	11_01	2	1, 2
VH853661	8	11_02	2	1, 2
VH853662	8	11_03	2	1, 2
VH853665	8	11_04	2	1, 2
VH853674	8	11_05	2	1, 2
VH853671	8	11_06	2	1, 2
VH853682	8	12_00	2	1, 2
VH267682	4, 8	12_01	2	1, 2
VH853690	8	12_02	2	1, 2
VH853692	8	12_03	2	1, 2
VH853683	8	12_04	2	1, 2
VH853693	8	12_05	2	1, 2

Accnum	Grade	Grade 8 OMB PDF Sequence Number	Number of Grade 8 booklets item appears in	Grade 8 booklets item appears in
VH853685	8	12_06	2	1, 2
VH853713	8	12_07	2	1, 2
VH853714	8	12_08	2	1, 2
VH882480	8	21_00	2	1, 2
VH460399	8	21_01	2	1, 2
VH460910	8	21_02	2	1, 2
VH460902	8	21_03	2	1, 2
VH882452	4, 8	18_00	1	3
VH268946	4, 8	18_01	1	3
VH858371	8	18_02	1	3
VH268961	4, 8	18_03	1	3
VH268962	4, 8	18_04	1	3
VH460923	8	06_00	3	1, 2, 3
VH460925	8	07_00	3	1, 2, 3

Appendix K-1ak: Summary of Changes Operational Grade 12 Mathematics

2019 Operational Grade 12 Mathematics Student

Previous item	2019 item	D/A/R/NC+	Rationale																																																																																																																																																																																																																																																																								
<p>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.</p> <p style="text-align: right; font-size: small;">V1240819</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>I have never taken this course.</th> <th>I took this course in or before Grade 8.</th> <th>I took this course in Grade 9.</th> <th>I took this course in Grade 10.</th> <th>I took this course in Grade 11.</th> <th>I took this course in Grade 12.</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Basic or general mathematics course</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="text-align: center;">Ⓔ</td> <td style="text-align: center;">Ⓕ</td> <td>V1240820</td> </tr> <tr> <td>b. Tech-prep mathematics, business mathematics, consumer mathematics, or other applied mathematics course</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="text-align: center;">Ⓔ</td> <td style="text-align: center;">Ⓕ</td> <td>V1240844</td> </tr> <tr> <td>c. Introduction to algebra or pre-algebra course</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="text-align: center;">Ⓔ</td> <td style="text-align: center;">Ⓕ</td> <td>V1240822</td> </tr> <tr> <td>d. Algebra I course</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="text-align: center;">Ⓔ</td> <td style="text-align: center;">Ⓕ</td> <td>V1240823</td> </tr> <tr> <td>e. Geometry course</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="text-align: center;">Ⓔ</td> <td style="text-align: center;">Ⓕ</td> <td>V1240824</td> </tr> <tr> <td>f. Algebra II course, with or without trigonometry</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="text-align: center;">Ⓔ</td> <td style="text-align: center;">Ⓕ</td> <td>V1240825</td> </tr> <tr> <td>g. Trigonometry (as a separate course)</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="text-align: center;">Ⓔ</td> <td style="text-align: center;">Ⓕ</td> <td>V1240826</td> </tr> <tr> <td>h. Pre-calculus course (also called introductory analysis)</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="text-align: center;">Ⓔ</td> <td style="text-align: center;">Ⓕ</td> <td>V1240833</td> </tr> <tr> <td>i. Integrated mathematics 1 (first year of a multi-year course)</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="text-align: center;">Ⓔ</td> <td style="text-align: center;">Ⓕ</td> <td>V1240841</td> </tr> <tr> <td>j. Integrated mathematics 2 (second year of a multi-year course)</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="text-align: center;">Ⓔ</td> <td style="text-align: center;">Ⓕ</td> <td>V1240842</td> </tr> <tr> <td>k. Integrated mathematics 3 (third year of a multi-year course)</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="text-align: center;">Ⓔ</td> <td style="text-align: center;">Ⓕ</td> <td>V1240843</td> </tr> <tr> <td>l. Integrated mathematics 4 (fourth year of a multi-year course)</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="text-align: center;">Ⓔ</td> <td style="text-align: center;">Ⓕ</td> <td>V1240821</td> </tr> <tr> <td>m. Probability or statistics course</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="text-align: center;">Ⓔ</td> <td style="text-align: center;">Ⓕ</td> <td>V1240836</td> </tr> <tr> <td>n. Calculus course</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="text-align: center;">Ⓔ</td> <td style="text-align: center;">Ⓕ</td> <td>V1240829</td> </tr> <tr> <td>o. Computer programming course (such as C++, Visual Basic, etc.)</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="text-align: center;">Ⓔ</td> <td style="text-align: center;">Ⓕ</td> <td>V1240835</td> </tr> <tr> <td>p. Other mathematics course (specify):</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="text-align: center;">Ⓔ</td> <td style="text-align: center;">Ⓕ</td> <td>V1240834</td> </tr> </tbody> </table> <p>(2018 Grade 12)</p>		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	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240820	b. Tech-prep mathematics, business mathematics, consumer mathematics, or other applied mathematics course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240844	c. Introduction to algebra or pre-algebra course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240822	d. Algebra I course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240823	e. Geometry course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240824	f. Algebra II course, with or without trigonometry	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240825	g. Trigonometry (as a separate course)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240826	h. Pre-calculus course (also called introductory analysis)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240833	i. Integrated mathematics 1 (first year of a multi-year course)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240841	j. Integrated mathematics 2 (second year of a multi-year course)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240842	k. Integrated mathematics 3 (third year of a multi-year course)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240843	l. Integrated mathematics 4 (fourth year of a multi-year course)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240821	m. Probability or statistics course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240836	n. Calculus course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240829	o. Computer programming course (such as C++, Visual Basic, etc.)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240835	p. Other mathematics course (specify):	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240834	<p>24. 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. 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Calculus course</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="text-align: center;">Ⓔ</td> <td style="text-align: center;">Ⓕ</td> <td>V1240829</td> </tr> <tr> <td>o. Computer programming course (such as C++, Visual Basic, etc.)</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="text-align: center;">Ⓔ</td> <td style="text-align: center;">Ⓕ</td> <td>V1240835</td> </tr> </tbody> </table> <p>Issue: Student factors</p>		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	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240820	b. Tech-prep mathematics, business mathematics, consumer mathematics, or other applied mathematics course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240844	c. Introduction to algebra or pre-algebra course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240822	d. Algebra I course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240823	e. Geometry course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240824	f. Algebra II course, with or without trigonometry	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240825	g. Trigonometry (as a separate course)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240826	h. Pre-calculus course (also called introductory analysis)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240833	i. Integrated mathematics 1 (first year of a multi-year course)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240841	j. Integrated mathematics 2 (second year of a multi-year course)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240842	k. Integrated mathematics 3 (third year of a multi-year course)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240843	l. Integrated mathematics 4 (fourth year of a multi-year course)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240821	m. Probability or statistics course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240836	n. Calculus course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240829	o. Computer programming course (such as C++, Visual Basic, etc.)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240835	<p>R</p>	<p>Sub-item “p” was dropped since "Other" is not an option preferred to be included for student operational administration.</p>
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c. Introduction to algebra or pre-algebra course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240822																																																																																																																																																																																																																																																																				
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e. Geometry course	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240824																																																																																																																																																																																																																																																																				
f. Algebra II course, with or without trigonometry	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240825																																																																																																																																																																																																																																																																				
g. Trigonometry (as a separate course)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240826																																																																																																																																																																																																																																																																				
h. Pre-calculus course (also called introductory analysis)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240833																																																																																																																																																																																																																																																																				
i. Integrated mathematics 1 (first year of a multi-year course)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240841																																																																																																																																																																																																																																																																				
j. Integrated mathematics 2 (second year of a multi-year course)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240842																																																																																																																																																																																																																																																																				
k. Integrated mathematics 3 (third year of a multi-year course)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240843																																																																																																																																																																																																																																																																				
l. Integrated mathematics 4 (fourth year of a multi-year course)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240821																																																																																																																																																																																																																																																																				
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o. Computer programming course (such as C++, Visual Basic, etc.)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240835																																																																																																																																																																																																																																																																				
p. Other mathematics course (specify):	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	V1240834																																																																																																																																																																																																																																																																				
	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.																																																																																																																																																																																																																																																																					
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2019 Operational Grade 12 Mathematics Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right; font-size: small;">V122044</p> <p>2. Are you currently enrolled in or have you taken any of the following Advanced Placement (AP[®]) courses? Select all that apply.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Yes, I am enrolled in or have taken Advanced Placement (AP) Calculus AB. <input type="checkbox"/> Yes, I am enrolled in or have taken Advanced Placement (AP) Calculus BC. <input type="checkbox"/> Yes, I am enrolled in or have taken Advanced Placement (AP) Statistics. <input type="checkbox"/> No, I have not taken any of the courses listed above. <p>(2018 Grade 12)</p>	<p style="text-align: right; font-size: small;">V122044</p> <p>25. Are you currently enrolled in or have you taken any of the following Advanced Placement (AP[®]) courses? Select all that apply.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Yes, I am enrolled in or have taken Advanced Placement (AP) Calculus AB. <input type="checkbox"/> Yes, I am enrolled in or have taken Advanced Placement (AP) Calculus BC. <input type="checkbox"/> Yes, I am enrolled in or have taken Advanced Placement (AP) Statistics. <input type="checkbox"/> No, I have not taken any of the courses listed above. <p>Issue: Organization of Instruction</p>	NC	N/A
<p style="text-align: right; font-size: small;">V124008</p> <p>3. Are you currently enrolled in or have you taken an International Baccalaureate[®] (IB) mathematics course?</p> <ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No <p>(2018 Grade 12)</p>	<p style="text-align: right; font-size: small;">V124008</p> <p>26. Are you currently enrolled in or have you taken an International Baccalaureate[®] (IB) mathematics course?</p> <ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No <p>Issue: Organization of Instruction</p>	NC	N/A
<p style="text-align: right; font-size: small;">V124009</p> <p>4. Are you currently enrolled in or have you taken any online mathematics courses for high school or college credit?</p> <ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No <p>(2018 Grade 12)</p>	<p style="text-align: right; font-size: small;">V124009</p> <p>27. Are you currently enrolled in or have you taken any online mathematics courses for high school or college credit?</p> <ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No <p>Issue: Organization of Instruction</p>	NC	N/A
<p style="text-align: right; font-size: small;">V124050</p> <p>5. Was there a mathematics course that you would have liked to have taken this school year but did not take?</p> <ul style="list-style-type: none"> <input type="checkbox"/> Yes, but my school does not offer the course. <input type="checkbox"/> Yes, but the course was full. <input type="checkbox"/> Yes, but I did not have the necessary prerequisites. <input type="checkbox"/> Yes, but my schedule was full. <input type="checkbox"/> No, there was no other course that I wanted to take. <p>(2018 Grade 12)</p>	<p style="text-align: right; font-size: small;">V124050</p> <p>28. Was there a mathematics course that you would have liked to have taken this school year but did not take?</p> <ul style="list-style-type: none"> <input type="checkbox"/> Yes, but my school does not offer the course. <input type="checkbox"/> Yes, but the course was full. <input type="checkbox"/> Yes, but I did not have the necessary prerequisites. <input type="checkbox"/> Yes, but my schedule was full. <input type="checkbox"/> No, there was no other course that I wanted to take. <p>Issue: Organization of Instruction</p>	NC	N/A

2019 Operational Grade 12 Mathematics Student

Previous item	2019 item	D/A/ R/NC+	Rationale																																																																																																																																																																																													
<p>6. Please indicate how much you DISAGREE or AGREE with the following statements. Select one answer choice on each row. VH120763</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Strongly disagree</th> <th>Disagree</th> <th>Agree</th> <th>Strongly agree</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Math is one of my favorite subjects.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH120768</td> </tr> <tr> <td>b. I take mathematics because it will help me in the future.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH120770</td> </tr> <tr> <td>c. I take mathematics to meet my high school graduation requirements.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH120767</td> </tr> </tbody> </table> <p>(2018 Grade 12)</p>		Strongly disagree	Disagree	Agree	Strongly agree		a. Math is one of my favorite subjects.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH120768	b. I take mathematics because it will help me in the future.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH120770	c. I take mathematics to meet my high school graduation requirements.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH120767	<p>N/A</p>	<p>D</p>	<p>This item was dropped in lieu of keeping item VH731852.</p>																																																																																																																																																																					
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<p>7. How much does each of the following statements describe a person like you? Select one answer choice on each row. VH120749</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Not at all like me</th> <th>A little bit like me</th> <th>Somewhat like me</th> <th>Quite a bit like me</th> <th>Exactly like me</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. I enjoy doing math.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH120747</td> </tr> <tr> <td>b. I look forward to my math class.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH120748</td> </tr> <tr> <td>c. I am interested in the things I learn in math.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH120754</td> </tr> <tr> <td>d. I think making an effort in math is worthwhile.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH120745</td> </tr> <tr> <td>e. I think math will help me even when I am not in school.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH120746</td> </tr> <tr> <td>f. I think it is important to do well in math.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH120747</td> </tr> <tr> <td>g. I take mathematics because it will help me in the future.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH120753</td> </tr> <tr> <td>h. I take mathematics to meet my high school graduation requirements.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH120754</td> </tr> </tbody> </table> <p>8. How much does each of the following statements describe you? Select one answer choice on each row. VH120752</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Not at all like me</th> <th>A little bit like me</th> <th>Somewhat like me</th> <th>Quite a bit like me</th> <th>Exactly like me</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. 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I take mathematics to meet my high school graduation requirements.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH120758</td> </tr> </tbody> </table> <p>(2018 Grade 12)</p>		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.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH120747	b. I look forward to my math class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH120748	c. I am interested in the things I learn in math.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH120754	d. 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2019 Operational Grade 12 Mathematics Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right; font-size: small;">VHE20051</p> <p>9. Are you currently taking a mathematics course?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p>(2018 Grade 12)</p>	<p style="text-align: right; font-size: small;">VHE20051</p> <p>29. Are you currently taking a mathematics course?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p>Issue: Organization of Instruction</p>	NC	N/A
<p style="text-align: right; font-size: small;">VHE30115</p> <p>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?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> Once</p> <p><input type="radio"/> Two or three times</p> <p><input type="radio"/> Four or five times</p> <p><input type="radio"/> More than five times</p> <p>(2018 Grade 12)</p>	<p style="text-align: right; font-size: small;">VHE30115</p> <p>30. 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?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> Once</p> <p><input type="radio"/> Two or three times</p> <p><input type="radio"/> Four or five times</p> <p><input type="radio"/> More than five times</p> <p>Issue: Organization of Instruction</p>	NC	N/A
<p style="text-align: right; font-size: small;">VHE30116</p> <p>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?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> About once or twice a year</p> <p><input type="radio"/> About once or twice a month</p> <p><input type="radio"/> About once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p> <p>(2018 Grade 12)</p>	N/A	D	This item was dropped to keep in line with the ADC's recommendation for grades 4 and 8.
<p style="text-align: right; font-size: small;">VHE6754</p> <p>12. How often do you use a computer or other digital device (excluding handheld calculators) for math at school?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> About once or twice a year</p> <p><input type="radio"/> About once or twice a month</p> <p><input type="radio"/> About once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p> <p>(2018 Grade 12)</p>	N/A	D	This item was dropped to keep in line with NCES's review of technology-use items for grades 4 and 8.

2019 Operational Grade 12 Mathematics Student

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<p style="text-align: right; font-size: small;">VH36233</p> <p>13. How often do you receive help or tutoring with math outside of school or after school?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> About once or twice a year</p> <p><input type="radio"/> About once or twice a month</p> <p><input type="radio"/> About once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p> <p>(2018 Grade 12)</p>	<p style="text-align: right; font-size: small;">VH36233</p> <p>42. How often do you receive help or tutoring with math outside of school or after school?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> About once or twice a year</p> <p><input type="radio"/> About once or twice a month</p> <p><input type="radio"/> About once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p> <p>Issue: Resources for Learning and Instruction</p>	NC	N/A																																										
<p style="text-align: right; font-size: small;">VH26808</p> <p>14. In your math class this year, how often have you used the following types of calculators? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Never or hardly ever</th> <th>Less than half of the time</th> <th>About half of the time</th> <th>More than half of the time</th> <th>All or almost all of the time</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Basic calculator</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-x-small;">VH26809</td> </tr> <tr> <td>b. Graphing calculator</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-x-small;">VH26810</td> </tr> </tbody> </table> <p>(2018 Grade 12)</p>		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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH26809	b. Graphing calculator	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH26810	<p style="text-align: right; font-size: small;">VH26808</p> <p>31. In your math class this year, how often have you used the following types of calculators? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Never or hardly ever</th> <th>Less than half of the time</th> <th>About half of the time</th> <th>More than half of the time</th> <th>All or almost all of the time</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Basic calculator</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-x-small;">VH26809</td> </tr> <tr> <td>b. Graphing calculator</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-x-small;">VH26810</td> </tr> </tbody> </table> <p>Issue: Resources for Learning and Instruction</p>		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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH26809	b. Graphing calculator	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH26810	NC	N/A
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2019 Operational Grade 12 Mathematics Student

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d. My teacher required us to use computers or other digital devices to complete math assignments.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VHE67419																																																																			
<p>16. In this school year, how often have you used a computer or other digital device (excluding handheld calculators) to complete your math assignments? VHS36036</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>(2018 Grade 12)</p>	<p>N/A</p>	<p>D</p>	<p>This item was dropped to keep in line with NCES's review of technology-use items for grades 4 and 8.</p>																																																																						
<p>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? VHS36037</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>(2018 Grade 12)</p>	<p>33. 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? VHS36037</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>Issue: Resources for Learning and Instruction</p>	<p>NC</p>	<p>N/A</p>																																																																						

2019 Operational Grade 12 Mathematics Student

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<p style="text-align: right; font-size: small;">VH617207</p> <p>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?</p> <p> <input type="radio"/> Never <input type="radio"/> Once <input type="radio"/> Two or three times <input type="radio"/> Four or five times <input type="radio"/> More than five times </p> <p>(2018 Grade 12)</p>	<p>N/A</p>	<p>D</p>	<p>This item was dropped to keep in line with NCES's review of technology-use items for grades 4 and 8.</p>																																																																						
<p style="text-align: right; font-size: small;">VH268936</p> <p>19. How often do you use math in everyday life outside of school?</p> <p> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day </p> <p>(2018 Grade 12)</p>	<p style="text-align: right; font-size: small;">VH268936</p> <p>39. How often do you use math in everyday life outside of school?</p> <p> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day </p> <p>Issue: Resources for Learning and Instruction</p>	<p>NC</p>	<p>N/A</p>																																																																						
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2019 Operational Grade 12 Mathematics Student

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d. Explain how you know the number of books you can buy if you know the price of each book and you have \$35	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH460391																																																																																																													
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a. Create an expression that represents the average number of miles you run in a week if you run 100 miles in w weeks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH460385																																																																																																													
b. Determine a 20 percent tip of a 67-dollar restaurant dinner bill	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH267679																																																																																																													
c. Describe the properties shared by every isosceles right triangle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH267681																																																																																																													

2019 Operational Grade 12 Mathematics Student

Previous item	2019 item	D/A/ R/NC+	Rationale																																																																																																																																																																								
<p>24. How much does each of the following statements describe a person like you? Select one answer choice on each row. VH84848</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Not at all like me</th> <th>A little bit like me</th> <th>Somewhat like me</th> <th>Quite a bit like me</th> <th>Exactly like me</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. I want other students to think I am good at math.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH84849</td> </tr> <tr> <td>b. I want to show others that my math schoolwork is easy for me.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH84850</td> </tr> <tr> <td>c. I want to look smart in comparison to the other students in my math class.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH84851</td> </tr> <tr> <td>d. I want to learn as much as possible in my math class.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH84852</td> </tr> <tr> <td>e. I want to become better in math this year.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH84856</td> </tr> <tr> <td>f. I want to understand as much as I can in my math class.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH84860</td> </tr> </tbody> </table> <p>25. How much does each of the following statements describe you? Select one answer choice on each row. VH85180</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Not at all like me</th> <th>A little bit like me</th> <th>Somewhat like me</th> <th>Quite a bit like me</th> <th>Exactly like me</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. I want other students to think I am good at math.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH85186</td> </tr> <tr> <td>b. I want to show others that my math schoolwork is easy for me.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH85187</td> </tr> <tr> <td>c. I want to look smart in comparison to the other students in my math class.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH85188</td> </tr> <tr> <td>d. I want to learn as much as possible in my math class.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH85189</td> </tr> <tr> <td>e. I want to become better in math this year.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH85190</td> </tr> <tr> <td>f. I want to understand as much as I can in my math class.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH85191</td> </tr> </tbody> </table>		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.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH84849	b. I want to show others that my math schoolwork is easy for me.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH84850	c. I want to look smart in comparison to the other students in my math class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH84851	d. I want to learn as much as possible in my math class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH84852	e. I want to become better in math this year.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH84856	f. I want to understand as much as I can in my math class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH84860		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.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH85186	b. I want to show others that my math schoolwork is easy for me.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH85187	c. I want to look smart in comparison to the other students in my math class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH85188	d. I want to learn as much as possible in my math class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH85189	e. I want to become better in math this year.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH85190	f. I want to understand as much as I can in my math class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH85191	<p>34. How much does each of the following statements describe you? Select one answer choice on each row. VH84470</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Not at all like me</th> <th>A little bit like me</th> <th>Somewhat like me</th> <th>Quite a bit like me</th> <th>Exactly like me</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. I want other students to think I am good at math.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH84471</td> </tr> <tr> <td>b. I want to show others that my math schoolwork is easy for me.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH84472</td> </tr> <tr> <td>c. I want to look smart in comparison to the other students in my math class.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH84473</td> </tr> <tr> <td>d. I want to get better grades than most other students in my math class.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH84482</td> </tr> </tbody> </table> <p>35. How much does each of the following statements describe you? Select one answer choice on each row. VH84510</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Not at all like me</th> <th>A little bit like me</th> <th>Somewhat like me</th> <th>Quite a bit like me</th> <th>Exactly like me</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. I want to learn as much as possible in my math class.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH84517</td> </tr> <tr> <td>b. I want to master a lot of new skills in my math class.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH84514</td> </tr> <tr> <td>c. I want to become better in math this year.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH84515</td> </tr> <tr> <td>d. I want to understand as much as I can in my math class.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH84518</td> </tr> </tbody> </table>		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.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH84471	b. I want to show others that my math schoolwork is easy for me.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH84472	c. I want to look smart in comparison to the other students in my math class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH84473	d. I want to get better grades than most other students in my math class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH84482		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.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH84517	b. I want to master a lot of new skills in my math class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH84514	c. I want to become better in math this year.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH84515	d. I want to understand as much as I can in my math class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH84518	<p>R</p>	<p>The version of the item that uses “describe you” in the stem was retained for operational. The single matrix was separated into two matrices of achievement goals items (performance and mastery). In order to create indices for both performance and mastery goals based on a total of at least 4 items, VH844882 and VH845114 were added from the 2016 pilot assessment.</p>
	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me																																																																																																																																																																						
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(2018 Grade 12)	Issue: Student factors																																																																																																																																																																										

2019 Operational Grade 12 Mathematics Student

Previous item	2019 item	D/A/ R/NC+	Rationale																																																																													
<p>26. How much do you enjoy solving each of the following types of math problems? Select one answer choice on each row. VH07498</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Enjoy not at all</th> <th>Enjoy a little bit</th> <th>Enjoy somewhat</th> <th>Enjoy quite a bit</th> <th>Enjoy a lot</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Addition, subtraction, multiplication, and division</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH07499</td> </tr> <tr> <td>b. Finding areas of shapes and figures</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH07500</td> </tr> <tr> <td>c. Solving for probabilities and events (for example, card, coin, marble, and spinner problems)</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH07501</td> </tr> <tr> <td>d. Solving equations or simplifying expressions</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH07502</td> </tr> <tr> <td>e. Constructing and building different types of graphs (for example, bar graph, line graph, or box and whisker plots)</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH07503</td> </tr> <tr> <td>f. Working with geometric figures like rectangles and squares</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH07504</td> </tr> </tbody> </table> <p>(2018 Grade 12)</p>		Enjoy not at all	Enjoy a little bit	Enjoy somewhat	Enjoy quite a bit	Enjoy a lot		a. Addition, subtraction, multiplication, and division	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH07499	b. Finding areas of shapes and figures	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH07500	c. Solving for probabilities and events (for example, card, coin, marble, and spinner problems)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH07501	d. Solving equations or simplifying expressions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH07502	e. Constructing and building different types of graphs (for example, bar graph, line graph, or box and whisker plots)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH07503	f. Working with geometric figures like rectangles and squares	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH07504	<p>38. How much do you enjoy each of the following types of math activities? Select one answer choice on each row. VH06046</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Enjoy not at all</th> <th>Enjoy a little bit</th> <th>Enjoy somewhat</th> <th>Enjoy quite a bit</th> <th>Enjoy a lot</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. 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Solving equations or simplifying expressions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH06053	b. Constructing and building different types of graphs (for example, bar graph, line graph, or box and whisker plots)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH06051	c. Working with geometric figures like rectangles and squares	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH06052	R	<p>Previous sub-items “a” – “c” were dropped.</p>
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c. Solving for probabilities and events (for example, card, coin, marble, and spinner problems)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH07501																																																																										
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f. Working with geometric figures like rectangles and squares	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH07504																																																																										
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a. Solving equations or simplifying expressions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH06053																																																																										
b. Constructing and building different types of graphs (for example, bar graph, line graph, or box and whisker plots)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH06051																																																																										
c. Working with geometric figures like rectangles and squares	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH06052																																																																										
<p>27. How often do you play digital games (for example, apps, video games, or computer games) outside of school that involve math? VH06029</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>(2018 Grade 12)</p>	<p>40. How often do you play digital games (for example, apps, video games, or computer games) outside of school that involve math? VH06029</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>Issue: Resources for Learning and Instruction</p>	NC	N/A																																																																													
<p>28. How often do you use a computer, tablet, smartphone, or gaming console outside of school to play educational games that involve math? VH06037</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>(2018 Grade 12)</p>	<p>N/A</p>	D	<p>This item was dropped to keep in line with NCES’s review of technology-use items for grades 4 and 8.</p>																																																																													

2019 Operational Grade 12 Mathematics Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right; font-size: small;">V1860341</p> <p>29. How often do you use a computer, tablet, smartphone, or gaming console outside of school to play popular games that involve math?</p> <ul style="list-style-type: none"> <input type="radio"/> Never <input type="radio"/> About once or twice a year <input type="radio"/> About once or twice a month <input type="radio"/> About once or twice a week <input type="radio"/> Every day or almost every day <p>(2018 Grade 12)</p>	N/A	D	This item was dropped to keep in line with NCES's review of technology-use items for grades 4 and 8.

2019 Operational Grade 12 Mathematics Student

Previous item	2019 item	D/A/R/NC+	Rationale																																																																																											
<p>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.</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>I definitely can't</th> <th>I probably can't</th> <th>Maybe</th> <th>I probably can</th> <th>I definitely can</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Decide if your classmate's math work is correct</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH460308</td> </tr> <tr> <td>b. Give an example to show that a math statement is false</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH460309</td> </tr> <tr> <td>c. 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<p>32. Have you ever participated in a math study group outside of school?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p>(2018 Grade 12)</p>	<p>45. Have you ever participated in a math study group outside of school?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p>Issue: Student factors</p>	NC	N/A																																																																																											
<p>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.</p> <p><input style="width: 30px; height: 20px;" type="text"/></p> <p>(2018 Grade 12)</p>	<p>46. Over the past seven days, how many days have you participated in a math study group outside of school? Enter the number of days.</p> <p><input style="width: 30px; height: 20px;" type="text"/></p> <p>Issue: Student factors</p>	NC	N/A																																																																																											
<p>34. Have you ever participated in a math study group at school?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p>(2018 Grade 12)</p>	N/A	D	This item was dropped based on the ADC's recommendation for grades 4 and 8.																																																																																											
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2019 Operational Grade 12 Mathematics Student

Previous item	2019 item	D/A/ R/NC+	Rationale
(2018 Grade 12)			recommenda- tion for grades 4 and 8.

Appendix K-1a: Operational Grade 12 Mathematics

24. 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	(A)	(B)	(C)	(D)	(E)	(F)	VH240820
b. Tech-prep mathematics, business mathematics, consumer mathematics, or other applied mathematics course	(A)	(B)	(C)	(D)	(E)	(F)	VH240844
c. Introduction to algebra or pre-algebra course	(A)	(B)	(C)	(D)	(E)	(F)	VH240822
d. Algebra I course	(A)	(B)	(C)	(D)	(E)	(F)	VH240823
e. Geometry course	(A)	(B)	(C)	(D)	(E)	(F)	VH240824
f. Algebra II course, with or without trigonometry	(A)	(B)	(C)	(D)	(E)	(F)	VH240825
g. Trigonometry (as a separate course)	(A)	(B)	(C)	(D)	(E)	(F)	VH240826
h. Pre-calculus course (also called introductory analysis)	(A)	(B)	(C)	(D)	(E)	(F)	VH240833
i. Integrated mathematics 1 (first year of a multi-year course)	(A)	(B)	(C)	(D)	(E)	(F)	VH240841
j. Integrated mathematics 2 (second year of a multi-year course)	(A)	(B)	(C)	(D)	(E)	(F)	VH240842
k. Integrated mathematics 3 (third year of a multi-year course)	(A)	(B)	(C)	(D)	(E)	(F)	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)	(A)	(B)	(C)	(D)	(E)	(F)	VH240821
m. Probability or statistics course	(A)	(B)	(C)	(D)	(E)	(F)	VH240836
n. Calculus course	(A)	(B)	(C)	(D)	(E)	(F)	VH240829
o. Computer programming course (such as C++, Visual Basic, etc.)	(A)	(B)	(C)	(D)	(E)	(F)	VH240835

VH250444

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

- (A) Yes, I am enrolled in or have taken Advanced Placement (AP) Calculus AB.
- (B) Yes, I am enrolled in or have taken Advanced Placement (AP) Calculus BC.
- (C) Yes, I am enrolled in or have taken Advanced Placement (AP) Statistics.
- (D) No, I have not taken any of the courses listed above.

VH240048

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

- (A) Yes
- (B) No

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

- Ⓐ Yes
- Ⓑ No

28. 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.

29. Are you currently taking a mathematics course?

- Ⓐ Yes
- Ⓑ No

30. 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

31. 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)	(B)	(C)	(D)	(E)	VH266809
b. Graphing calculator	(A)	(B)	(C)	(D)	(E)	VH266810

32. 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.	(A)	(B)	(C)	(D)	(E)	VH267416
b. I used the Internet for my math work.	(A)	(B)	(C)	(D)	(E)	VH267417
c. My teacher used computers or other digital devices when teaching math to my class.	(A)	(B)	(C)	(D)	(E)	VH588077
d. My teacher required us to use computers or other digital devices to complete math assignments.	(A)	(B)	(C)	(D)	(E)	VH267419

33. 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

34. 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

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

36. 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	(A)	(B)	(C)	(D)	(E)	VH460383
b. Determine a 20 percent tip of a 67-dollar restaurant dinner bill	(A)	(B)	(C)	(D)	(E)	VH267679
c. Describe the properties shared by every isosceles right triangle	(A)	(B)	(C)	(D)	(E)	VH267681

37. 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

38. 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

39. 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

40. 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

41. 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

42. 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

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

- Ⓐ Yes
- Ⓑ No

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

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

- Ⓐ Yes
- Ⓑ No

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

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

Appendix K-1am: Summary of Changes Operational Grade 4 Science

2019 Operational Grade 4 Science Student

Previous item	2019 item	D/A/R/NC+	Rationale
<p style="text-align: right; font-size: small;">V1809012</p> <p>1. In your science class this year, how often have you learned about living things (for example, plants, animals, or bacteria)?</p> <ul style="list-style-type: none"> <input type="radio"/> Never or hardly ever <input type="radio"/> Once in a while <input type="radio"/> Sometimes <input type="radio"/> Often <input type="radio"/> Very often <p>(2018 Grade 4)</p>	<p style="text-align: right; font-size: small;">V1809012</p> <p>17. In your science class this year, how often have you learned about living things (for example, plants, animals, or bacteria)?</p> <ul style="list-style-type: none"> <input type="radio"/> Never or hardly ever <input type="radio"/> Once in a while <input type="radio"/> Sometimes <input type="radio"/> Often <input type="radio"/> Very often <p>Issue: Organization of Instruction</p>	NC	N/A
<p style="text-align: right; font-size: small;">V1809027</p> <p>2. In your science class this year, how often have you learned about electricity (for example, circuits, batteries, or light bulbs)?</p> <ul style="list-style-type: none"> <input type="radio"/> Never or hardly ever <input type="radio"/> Once in a while <input type="radio"/> Sometimes <input type="radio"/> Often <input type="radio"/> Very often <p>(2018 Grade 4)</p>	<p style="text-align: right; font-size: small;">V1809027</p> <p>18. In your science class this year, how often have you learned about electricity (for example, circuits, batteries, or light bulbs)?</p> <ul style="list-style-type: none"> <input type="radio"/> Never or hardly ever <input type="radio"/> Once in a while <input type="radio"/> Sometimes <input type="radio"/> Often <input type="radio"/> Very often <p>Issue: Organization of Instruction</p>	NC	N/A
<p style="text-align: right; font-size: small;">V1809011</p> <p>3. In your science class this year, how often have you learned about chemicals (for example, vinegar, baking soda, or hydrogen peroxide)?</p> <ul style="list-style-type: none"> <input type="radio"/> Never or hardly ever <input type="radio"/> Once in a while <input type="radio"/> Sometimes <input type="radio"/> Often <input type="radio"/> Very often <p>(2018 Grade 4)</p>	<p style="text-align: right; font-size: small;">V1809011</p> <p>19. In your science class this year, how often have you learned about chemicals (for example, vinegar, baking soda, or hydrogen peroxide)?</p> <ul style="list-style-type: none"> <input type="radio"/> Never or hardly ever <input type="radio"/> Once in a while <input type="radio"/> Sometimes <input type="radio"/> Often <input type="radio"/> Very often <p>Issue: Organization of Instruction</p>	NC	N/A
<p style="text-align: right; font-size: small;">V1809017</p> <p>4. In your science class this year, how often have you learned about rocks or minerals (for example, diamond, iron, or lava rock)?</p> <ul style="list-style-type: none"> <input type="radio"/> Never or hardly ever <input type="radio"/> Once in a while <input type="radio"/> Sometimes <input type="radio"/> Often <input type="radio"/> Very often <p>(2018 Grade 4)</p>	<p style="text-align: right; font-size: small;">V1809017</p> <p>20. In your science class this year, how often have you learned about rocks or minerals (for example, diamond, iron, or lava rock)?</p> <ul style="list-style-type: none"> <input type="radio"/> Never or hardly ever <input type="radio"/> Once in a while <input type="radio"/> Sometimes <input type="radio"/> Often <input type="radio"/> Very often <p>Issue: Organization of Instruction</p>	NC	N/A

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

2019 Operational Grade 4 Science Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right; font-size: small;">V1839043</p> <p>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)?</p> <p><input type="radio"/> Never or hardly ever</p> <p><input type="radio"/> Once in a while</p> <p><input type="radio"/> Sometimes</p> <p><input type="radio"/> Often</p> <p><input type="radio"/> Always or almost always</p> <p>(2018 Grade 4)</p>	<p style="text-align: right; font-size: small;">V1839043</p> <p>21. In your science class this year, how often have you done science activities using scientific tools (for example, microscopes, thermometers, beakers, or weighing scales)?</p> <p><input type="radio"/> Never or hardly ever</p> <p><input type="radio"/> Once in a while</p> <p><input type="radio"/> Sometimes</p> <p><input type="radio"/> Often</p> <p><input type="radio"/> Always or almost always</p> <p>Issue: Organization of Instruction</p>	NC	N/A
<p style="text-align: right; font-size: small;">V1839047</p> <p>6. In your science class this year, how often have you read from a science textbook (print or digital)?</p> <p><input type="radio"/> Never or hardly ever</p> <p><input type="radio"/> Once in a while</p> <p><input type="radio"/> Sometimes</p> <p><input type="radio"/> Often</p> <p><input type="radio"/> Always or almost always</p> <p>(2018 Grade 4)</p>	<p style="text-align: right; font-size: small;">V1839047</p> <p>22. In your science class this year, how often have you read from a science textbook (print or digital)?</p> <p><input type="radio"/> Never or hardly ever</p> <p><input type="radio"/> Once in a while</p> <p><input type="radio"/> Sometimes</p> <p><input type="radio"/> Often</p> <p><input type="radio"/> Always or almost always</p> <p>Issue: Organization of Instruction</p>	NC	N/A
<p style="text-align: right; font-size: small;">V1839051</p> <p>7. In your science class this year, how often have you learned about science topics on the Internet?</p> <p><input type="radio"/> Never or hardly ever</p> <p><input type="radio"/> Once in a while</p> <p><input type="radio"/> Sometimes</p> <p><input type="radio"/> Often</p> <p><input type="radio"/> Always or almost always</p> <p>(2018 Grade 4)</p>	<p style="text-align: right; font-size: small;">V1839051</p> <p>23. In your science class this year, how often have you learned about science topics on the Internet?</p> <p><input type="radio"/> Never or hardly ever</p> <p><input type="radio"/> Once in a while</p> <p><input type="radio"/> Sometimes</p> <p><input type="radio"/> Often</p> <p><input type="radio"/> Always or almost always</p> <p>Issue: Organization of Instruction</p>	NC	N/A
<p style="text-align: right; font-size: small;">V1839057</p> <p>8. In your science class this year, how often have you watched a short video clip, movie, or video about science topics?</p> <p><input type="radio"/> Never or hardly ever</p> <p><input type="radio"/> Once in a while</p> <p><input type="radio"/> Sometimes</p> <p><input type="radio"/> Often</p> <p><input type="radio"/> Always or almost always</p> <p>(2018 Grade 4)</p>	<p style="text-align: right; font-size: small;">V1839057</p> <p>24. In your science class this year, how often have you watched a short video clip, movie, or video about science topics?</p> <p><input type="radio"/> Never or hardly ever</p> <p><input type="radio"/> Once in a while</p> <p><input type="radio"/> Sometimes</p> <p><input type="radio"/> Often</p> <p><input type="radio"/> Always or almost always</p> <p>Issue: Organization of Instruction</p>	NC	N/A

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2019 Operational Grade 4 Science Student

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<p style="text-align: right; font-size: small;">V1830000</p> <p>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)?</p> <ul style="list-style-type: none"> <input type="radio"/> Never or hardly ever <input type="radio"/> Once in a while <input type="radio"/> Sometimes <input type="radio"/> Often <input type="radio"/> Always or almost always <p>(2018 Grade 4)</p>	<p style="text-align: right; font-size: small;">V1830000</p> <p>25. 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)?</p> <ul style="list-style-type: none"> <input type="radio"/> Never or hardly ever <input type="radio"/> Once in a while <input type="radio"/> Sometimes <input type="radio"/> Often <input type="radio"/> Always or almost always <p>Issue: Organization of Instruction</p>	NC	N/A
<p style="text-align: right; font-size: small;">V1830007</p> <p>10. In this school year, how often have you understood what the teacher talks about in science class?</p> <ul style="list-style-type: none"> <input type="radio"/> Never or hardly ever <input type="radio"/> Once in a while <input type="radio"/> Sometimes <input type="radio"/> Often <input type="radio"/> Always or almost always <p>(2018 Grade 4)</p>	N/A	D	Due to overlap with new content and to keep student burden low, this item was dropped.
<p style="text-align: right; font-size: small;">V1830009</p> <p>11. In this school year, how often have you done well on your science tests?</p> <ul style="list-style-type: none"> <input type="radio"/> Never or hardly ever <input type="radio"/> Once in a while <input type="radio"/> Sometimes <input type="radio"/> Often <input type="radio"/> Always or almost always <p>(2018 Grade 4)</p>	N/A	D	Due to overlap with new content and to keep student burden low, this item was dropped.
<p style="text-align: right; font-size: small;">V1830003</p> <p>12. In this school year, how often have you done well on your science assignments (for example, projects, homework, or worksheets)?</p> <ul style="list-style-type: none"> <input type="radio"/> Never or hardly ever <input type="radio"/> Once in a while <input type="radio"/> Sometimes <input type="radio"/> Often <input type="radio"/> Always or almost always <p>(2018 Grade 4)</p>	N/A	D	Due to overlap with new content and to keep student burden low, this item was dropped.

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2019 Operational Grade 4 Science Student

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<p>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.</p> <p style="text-align: right; font-size: small;">V18-0966</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>I definitely can't</th> <th>I probably can't</th> <th>Maybe</th> <th>I probably can</th> <th>I definitely can</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Describe different ways to heat or cool water</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;">V180866</td> </tr> <tr> <td>b. 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I want to get better science grades than most other students in my class.</td> <td>Ⓐ</td> <td>Ⓑ</td> <td>Ⓒ</td> <td>Ⓓ</td> <td>Ⓔ</td> <td>V18G0109</td> </tr> <tr> <td>e. I want to learn as much as possible in my science class.</td> <td>Ⓐ</td> <td>Ⓑ</td> <td>Ⓒ</td> <td>Ⓓ</td> <td>Ⓔ</td> <td>V18G0095</td> </tr> <tr> <td>f. I want to become better in science this year.</td> <td>Ⓐ</td> <td>Ⓑ</td> <td>Ⓒ</td> <td>Ⓓ</td> <td>Ⓔ</td> <td>V18G0097</td> </tr> <tr> <td>g. I want to understand as much as I can in my science class.</td> <td>Ⓐ</td> <td>Ⓑ</td> <td>Ⓒ</td> <td>Ⓓ</td> <td>Ⓔ</td> <td>V18G0099</td> </tr> <tr> <td>h. I want to master a lot of new science skills in my class.</td> <td>Ⓐ</td> <td>Ⓑ</td> <td>Ⓒ</td> <td>Ⓓ</td> <td>Ⓔ</td> <td>V18G0100</td> </tr> </tbody> </table> <p>(2018 Grade 4)</p>		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.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	V18G0090	b. 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2019 Operational Grade 4 Science Student

Previous item	2019 item	D/A/R/NC+	Rationale																																																																																																		
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2019 Operational Grade 4 Science Student

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Appendix K-1an: Operational Grade 4 Science

17. 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

18. 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

19. 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

20. 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

21. 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

22. In your science class this year, how often have you read from a science textbook (print or digital)?
- Ⓐ Never or hardly ever
 - Ⓑ Once in a while
 - Ⓒ Sometimes
 - Ⓓ Often
 - Ⓔ Always or almost always

23. 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

24. 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
 - Ⓑ Once in a while
 - Ⓒ Sometimes
 - Ⓓ Often
 - Ⓔ Always or almost always

25. 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

26. 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. Made a drawing that explains why or how something happens	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639156
b. Used a science experiment to answer a question	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639162
c. Put information you collected into a table or graph	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639164
d. Used evidence to explain why something happens	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639166
e. Found news articles about science on the Internet	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH639169

27. 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	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH638868
b. Describe how the length of a vibrating string affects the sound it makes	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH638870
c. Design an experiment to show how sunlight affects the growth of a plant	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH638872
d. Use examples to show how one living thing has helped another to survive	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH638875
e. Describe what would happen to the number of frogs at a pond if all the insects were removed from the pond	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH638876
f. Decide which tool to use if you want to measure wind speed	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH638883

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

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

30. 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

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

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

- A Never or hardly ever
- B Once in a while
- C Sometimes
- D Often
- E Very often

Appendix K-1ao: Summary of Changes Operational Grade 8 Science

2019 Operational Grade 8 Science Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right; font-size: small;">V18.0997</p> <p>1. In this school year, how often have you understood what the teacher talks about in science class?</p> <ul style="list-style-type: none"> <input type="radio"/> Never or hardly ever <input type="radio"/> Once in a while <input type="radio"/> Sometimes <input type="radio"/> Often <input type="radio"/> Always or almost always <p>(2018 Grade 8)</p>	N/A	D	Due to overlap with new content and to keep student burden low, this item was dropped.
<p style="text-align: right; font-size: small;">V18.0999</p> <p>2. In this school year, how often have you done well on your science tests?</p> <ul style="list-style-type: none"> <input type="radio"/> Never or hardly ever <input type="radio"/> Once in a while <input type="radio"/> Sometimes <input type="radio"/> Often <input type="radio"/> Always or almost always <p>(2018 Grade 8)</p>	N/A	D	Due to overlap with new content and to keep student burden low, this item was dropped.
<p style="text-align: right; font-size: small;">V18.0998</p> <p>3. In this school year, how often have you done well on your science assignments (for example, projects, homework, or worksheets)?</p> <ul style="list-style-type: none"> <input type="radio"/> Never or hardly ever <input type="radio"/> Once in a while <input type="radio"/> Sometimes <input type="radio"/> Often <input type="radio"/> Always or almost always <p>(2018 Grade 8)</p>	N/A	D	Due to overlap with new content and to keep student burden low, this item was dropped.

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

2019 Operational Grade 8 Science Student

Previous item	2019 item	D/A/R/NC+	Rationale																																																																																																		
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+ This column indicates whether the item was dropped (D), added (A), revised (R), or there was no change (NC).

2019 Operational Grade 8 Science Student

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Design an experiment to show how sunlight affects the growth of a plant</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH638872</td> </tr> <tr> <td>d. Use examples to show how one living thing has helped another to survive</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH638875</td> </tr> <tr> <td>e. Describe what would happen to the number of frogs at a pond if all the insects were removed from the pond</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH638876</td> </tr> <tr> <td>f. 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2019 Operational Grade 8 Science Student

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2019 Operational Grade 8 Science Student

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b. Write or blog about science topics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1803093																																																																																															
c. Use scientific tools (for example, microscopes, thermometers, beakers, or weighing scales)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1803085																																																																																															
d. Read about science topics in books or magazines (print or digital)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1803097																																																																																															
e. Attend clubs or programs that include science or engineering activities (for example, chemistry club, robotics club, or coding programs)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1803099																																																																																															
	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)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1803103																																																																																															
b. Used scientific tools (for example, microscopes, thermometers, beakers, or weighing scales)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1803127																																																																																															
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<p>9. How much does each of the following statements describe you? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Not at all like me</th> <th>A little bit like me</th> <th>Somewhat like me</th> <th>Quite a bit like me</th> <th>Exactly like me</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. I enjoy science activities.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>V1803017</td> </tr> <tr> <td>b. I look forward to my science class.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>V1803120</td> </tr> <tr> <td>c. 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2019 Operational Grade 8 Science Student

Previous item	2019 item	D/A/ R/NC+	Rationale																																																																																																																														
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Appendix K-1ap: Operational Grade 8 Science

22. 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

23. 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

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

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

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

27. 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)	(A)	(B)	(C)	(D)	(E)	VH859162
b. Used scientific tools (for example, microscopes, thermometers, beakers, or weighing scales)	(A)	(B)	(C)	(D)	(E)	VH891927
c. Read about science topics in books or magazines (print or digital)	(A)	(B)	(C)	(D)	(E)	VH638987
d. Attended clubs or programs that include science or engineering activities (for example chemistry club, robotics club, or coding programs)	(A)	(B)	(C)	(D)	(E)	VH893268

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

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

30. 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 K-1a: Summary of Changes Operational Grade 12 Science

2019 Operational Grade 12 Science Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right;"><small>V183997</small></p> <p>1. In this school year, how often have you understood what the teacher talks about in science class?</p> <ul style="list-style-type: none"> <input type="radio"/> Never or hardly ever <input type="radio"/> Once in a while <input type="radio"/> Sometimes <input type="radio"/> Often <input type="radio"/> Always or almost always <p>(2018 Grade 12)</p>	N/A	D	Due to overlap with new content and to keep student burden low, this item was dropped.
<p style="text-align: right;"><small>V183999</small></p> <p>2. In this school year, how often have you done well on your science tests?</p> <ul style="list-style-type: none"> <input type="radio"/> Never or hardly ever <input type="radio"/> Once in a while <input type="radio"/> Sometimes <input type="radio"/> Often <input type="radio"/> Always or almost always <p>(2018 Grade 12)</p>	N/A	D	Due to overlap with new content and to keep student burden low, this item was dropped.
<p style="text-align: right;"><small>V183993</small></p> <p>3. In this school year, how often have you done well on your science assignments (for example, projects, homework, or worksheets)?</p> <ul style="list-style-type: none"> <input type="radio"/> Never or hardly ever <input type="radio"/> Once in a while <input type="radio"/> Sometimes <input type="radio"/> Often <input type="radio"/> Always or almost always <p>(2018 Grade 12)</p>	N/A	D	Due to overlap with new content and to keep student burden low, this item was dropped.

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

2019 Operational Grade 12 Science Student

Previous item	2019 item	D/A/ R/NC+	Rationale																																																																																																		
<p>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.</p> <p style="text-align: right; font-size: small;">V1630071</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Never or hardly ever</th> <th>Once in a while</th> <th>Sometimes</th> <th>Often</th> <th>Very often</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Living things (for example, plants, animals, or bacteria)</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="text-align: center;">Ⓔ</td> <td style="text-align: right; font-size: x-small;">V1630072</td> </tr> <tr> <td>b. 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Used a thermometer or weighing scale for making measurements	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	V163076	<p>R</p>	<p>To simplify wording based on stakeholder feedback, sub-item e was revised.</p>
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c. Used the Internet to learn about science topics	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	V163014																																																																																															
d. Watched a short video clip, movie, or video about science topics	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	V163012																																																																																															
e. Used a magnifying glass or microscope for looking at small things	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	V163075																																																																																															
f. Used a thermometer or weighing scale for making measurements	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	V163076																																																																																															
	Never or hardly ever	Once in a while	Sometimes	Often	Always or almost always																																																																																																
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2019 Operational Grade 12 Science Student

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Engineering and technology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH241158	R	<p>The “Other (Please specify)” response option was removed. This response option is only used in pilot administrations.</p>
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<p>7. Are you currently enrolled in or have you taken any online science courses for high school or college credit?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p>(2018 Grade 12)</p>	<p>25. Are you currently enrolled in or have you taken any online science courses for high school or college credit?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p>Issue: Organization of Instruction</p>	NC	N/A																																																																																																																																																																																																								

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2019 Operational Grade 12 Science Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right;"><small>VH20077</small></p> <p>8. Are you currently enrolled in or have you taken an Advanced Placement[®] course in science? Select all that apply.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Yes, I am enrolled in or have taken Advanced Placement Biology. <input type="checkbox"/> Yes, I am enrolled in or have taken Advanced Placement Environmental Science. <input type="checkbox"/> Yes, I am enrolled in or have taken Advanced Placement Chemistry. <input type="checkbox"/> Yes, I am enrolled in or have taken Advanced Placement Physics C. <input type="checkbox"/> Yes, I am enrolled in or have taken Advanced Placement Physics 1. <input type="checkbox"/> Yes, I am enrolled in or have taken Advanced Placement Physics 2. <input type="checkbox"/> Yes, I am enrolled in or have taken Advanced Placement Computer Science A. <input type="checkbox"/> Yes, I am enrolled in or have taken Advanced Placement Computer Science Principles. <input type="checkbox"/> No, I have never taken an Advanced Placement science course. <p>(2018 Grade 12)</p>	<p style="text-align: right;"><small>VH20077</small></p> <p>26. Are you currently enrolled in or have you taken an Advanced Placement[®] course in science? Select all that apply.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Yes, I am enrolled in or have taken Advanced Placement Biology. <input type="checkbox"/> Yes, I am enrolled in or have taken Advanced Placement Environmental Science. <input type="checkbox"/> Yes, I am enrolled in or have taken Advanced Placement Chemistry. <input type="checkbox"/> Yes, I am enrolled in or have taken Advanced Placement Physics C. <input type="checkbox"/> Yes, I am enrolled in or have taken Advanced Placement Physics 1. <input type="checkbox"/> Yes, I am enrolled in or have taken Advanced Placement Physics 2. <input type="checkbox"/> Yes, I am enrolled in or have taken Advanced Placement Computer Science A. <input type="checkbox"/> Yes, I am enrolled in or have taken Advanced Placement Computer Science Principles. <input type="checkbox"/> No, I have never taken an Advanced Placement science course. <p>Issue: Organization of Instruction</p>	NC	N/A
<p style="text-align: right;"><small>VH20012</small></p> <p>9. Are you currently taking a science course?</p> <ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No <p>(2018 Grade 12)</p>	<p style="text-align: right;"><small>VH20012</small></p> <p>27. Are you currently taking a science course?</p> <ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No <p>Issue: Organization of Instruction</p>	NC	N/A

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2019 Operational Grade 12 Science Student

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<p>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.</p> <p style="text-align: right; font-size: small;">V16S1609</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th></th> <th>I definitely can't</th> <th>I probably can't</th> <th>Maybe</th> <th>I probably can</th> <th>I definitely can</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Describe different ways to heat or cool water</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="text-align: center;">Ⓔ</td> <td style="text-align: right;">V16S8868</td> </tr> <tr> <td>b. Describe how the length of a vibrating string affects the sound it makes</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="text-align: center;">Ⓔ</td> <td style="text-align: right;">V16S8870</td> </tr> <tr> <td>c. Design an experiment to show how sunlight affects the growth of a plant</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="text-align: center;">Ⓔ</td> <td style="text-align: right;">V16S8872</td> </tr> <tr> <td>d. 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2019 Operational Grade 12 Science Student

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2019 Operational Grade 12 Science Student

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b. Made drawings that explain why or how something happens	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH639749																																																																																																																											
c. Came up with experiments that you could use to answer a research question	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH639753																																																																																																																											
d. Used tables or graphs to identify relationships between variables	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH639760																																																																																																																											
e. Used math equations to explain or support scientific conclusions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH639763																																																																																																																											
f. Used evidence from experiments to explain why something happens	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH639765																																																																																																																											
g. Used information to disagree with someone about a scientific idea	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH639770																																																																																																																											
h. Combined information about science from multiple sources (for example, books, websites, or articles) for an assignment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH639777																																																																																																																											
<p>15. How likely are you to pursue a career in science?</p> <p><input type="radio"/> Not at all likely</p> <p><input type="radio"/> Not likely</p> <p><input type="radio"/> Somewhat likely</p> <p><input type="radio"/> Quite likely</p> <p><input type="radio"/> Extremely likely</p> <p style="text-align: right; font-size: small;">VH639871</p> <p>(2018 Grade 12)</p>	<p>37. How likely are you to pursue a career in science?</p> <p><input type="radio"/> Not at all likely</p> <p><input type="radio"/> Not likely</p> <p><input type="radio"/> Somewhat likely</p> <p><input type="radio"/> Quite likely</p> <p><input type="radio"/> Extremely likely</p> <p style="text-align: right; font-size: small;">VH639871</p> <p>Issue: Student Factors</p>	<p>N/C</p>	<p>N/A</p>																																																																																																																														

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2019 Operational Grade 12 Science Student

Previous item	2019 item	D/A/R/NC+	Rationale																																																																				
<p>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.</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Yes</th> <th>No</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Attended a career fair</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>V1640739</td> </tr> <tr> <td>b. Answered questions on a career interest survey (for example, the Vocational-Interest Inventory, the Career Interest Test, or the Strong Interest Inventory®)</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>V1640746</td> </tr> <tr> <td>c. Taken a science course in addition to what you need to graduate</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>V1640748</td> </tr> <tr> <td>d. Collected information about science-related careers on your own</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>V1640749</td> </tr> <tr> <td>e. Collected information about science-related college programs on your own</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>V1640750</td> </tr> <tr> <td>f. Spoken with a guidance counselor or teacher about science-related careers</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>V1640754</td> </tr> <tr> <td>g. Spoken with a guidance counselor or teacher about science-related college programs</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>V1640757</td> </tr> <tr> <td>h. Spoken with a family member or family friend who works in a scientific field about his or her job</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>V1640759</td> </tr> <tr> <td>i. Shadowed a person who does science-related work at his or her job</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>V1640771</td> </tr> <tr> <td>j. Worked as an intern or employee doing science-related work</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>V1640773</td> </tr> <tr> <td>k. Other (Please specify):</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>V1640776</td> </tr> </tbody> </table> <p>(2018 Grade 12)</p>		Yes	No		a. Attended a career fair	<input type="radio"/>	<input type="radio"/>	V1640739	b. Answered questions on a career interest survey (for example, the Vocational-Interest Inventory, the Career Interest Test, or the Strong Interest Inventory®)	<input type="radio"/>	<input type="radio"/>	V1640746	c. Taken a science course in addition to what you need to graduate	<input type="radio"/>	<input type="radio"/>	V1640748	d. Collected information about science-related careers on your own	<input type="radio"/>	<input type="radio"/>	V1640749	e. Collected information about science-related college programs on your own	<input type="radio"/>	<input type="radio"/>	V1640750	f. Spoken with a guidance counselor or teacher about science-related careers	<input type="radio"/>	<input type="radio"/>	V1640754	g. Spoken with a guidance counselor or teacher about science-related college programs	<input type="radio"/>	<input type="radio"/>	V1640757	h. Spoken with a family member or family friend who works in a scientific field about his or her job	<input type="radio"/>	<input type="radio"/>	V1640759	i. Shadowed a person who does science-related work at his or her job	<input type="radio"/>	<input type="radio"/>	V1640771	j. Worked as an intern or employee doing science-related work	<input type="radio"/>	<input type="radio"/>	V1640773	k. Other (Please specify):	<input type="radio"/>	<input type="radio"/>	V1640776	<p>38. 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	Yes	No																																																																					
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Appendix K-1ar: Operational Grade 12 Science

24. 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	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	VH241150
b. First-year biology	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	VH241151
c. Second-year biology	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	VH241159
d. Life science (other than biology)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	VH241148
e. First-year chemistry	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	VH241154
f. Second-year chemistry	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	VH241155
g. First-year physics	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	VH241156
h. Second-year physics	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	VH241157
i. Physical science (other than chemistry or physics)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	VH241149
j. Earth and space science	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	VH241147
k. Engineering and technology	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	VH241158

25. Are you currently enrolled in or have you taken any online science courses for high school or college credit?

- A Yes
 B No

26. Are you currently enrolled in or have you taken an Advanced Placement[®] course in science? Select **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 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.
 - Ⓗ Yes, I am enrolled in or have taken Advanced Placement Computer Science Principles.
 - Ⓘ No, I have never taken an Advanced Placement science course.

27. Are you currently taking a science course?
- Ⓐ Yes
 - Ⓑ No

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

29. 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

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

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

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

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

34. 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

35. 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	(A)	(B)	(C)	(D)	(E)	VH638870
b. Design an experiment to show how sunlight affects the growth of a plant	(A)	(B)	(C)	(D)	(E)	VH638872
c. Decide which tool to use if you want to measure wind speed	(A)	(B)	(C)	(D)	(E)	VH638883
d. Design an experiment to test how the growth of a plant is affected by light, water, and soil quality	(A)	(B)	(C)	(D)	(E)	VH638877
e. Create a diagram that shows how bees and plants need each other for survival	(A)	(B)	(C)	(D)	(E)	VH638878
f. Describe how the combination of parental genes can result in different traits in their offspring (for example, eye or hair color)	(A)	(B)	(C)	(D)	(E)	VH638879

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

- A Never or hardly ever
- B Once in a while
- C Sometimes
- D Often
- E Very often

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

- A Not at all likely
- B Not likely
- C Somewhat likely
- D Quite likely
- E Extremely likely

38. 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. Spoken with a guidance counselor or teacher about science-related careers	<input type="radio"/> A	<input type="radio"/> B	VH640754
b. Spoken with a guidance counselor or teacher about science-related college programs	<input type="radio"/> A	<input type="radio"/> B	VH640757
c. Shadowed a person who does science-related work at his or her job	<input type="radio"/> A	<input type="radio"/> B	VH640771
d. Worked as an intern or employee doing science-related work	<input type="radio"/> A	<input type="radio"/> B	VH640773

Appendix K-1as: Summary of Changes Operational Grade 4 NIES

2019 Operational Grade 4 National Indian Education Study (NIES) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right; font-size: small;">VC759180</p> <p>1. How much do you know about your American Indian tribe or Alaska Native group? For example, you may know about the history, traditions, or arts and crafts of your tribe or group.</p> <p><input type="radio"/> Nothing</p> <p><input type="radio"/> A little</p> <p><input type="radio"/> Some</p> <p><input type="radio"/> A lot</p> <p>(2015 Grade 4)</p>	<p style="text-align: right; font-size: small;">VID40128</p> <p>1. How much do you know about your American Indian tribe or Alaska Native group? For example, you may know about the history, traditions, or arts and crafts of your tribe or group.</p> <p><input type="radio"/> Nothing</p> <p><input type="radio"/> A little</p> <p><input type="radio"/> Some</p> <p><input type="radio"/> A lot</p>	NC	N/A
<p style="text-align: right; font-size: small;">VID09333</p> <p>2. Who taught you most of what you know about American Indian or Alaska Native history?</p> <p><input type="radio"/> No one has taught me about American Indian or Alaska Native history.</p> <p><input type="radio"/> Family members</p> <p><input type="radio"/> Friends</p> <p><input type="radio"/> Teachers</p> <p><input type="radio"/> Tribal representatives or elders</p> <p><input type="radio"/> Some else (please specify): _____</p> <p>(2015 Grade 4)</p>	<p style="text-align: right; font-size: small;">VID40129</p> <p>2. Who taught you most of what you know about American Indian or Alaska Native history?</p> <p><input type="radio"/> No one has taught me about American Indian or Alaska Native history.</p> <p><input type="radio"/> Family members</p> <p><input type="radio"/> Friends</p> <p><input type="radio"/> Teachers</p> <p><input type="radio"/> Tribal representatives or elders</p> <p><input type="radio"/> Someone else (please specify): _____</p>	NC	N/A
<p style="text-align: right; font-size: small;">VID05760</p> <p>3. Who taught you most of what you know about American Indian or Alaska Native traditions (ways of life, customs)?</p> <p><input type="radio"/> No one has taught me about American Indian or Alaska Native traditions.</p> <p><input type="radio"/> Family members</p> <p><input type="radio"/> Friends</p> <p><input type="radio"/> Teachers</p> <p><input type="radio"/> Tribal representatives or elders</p> <p><input type="radio"/> Some else (please specify): _____</p> <p>(2015 Grade 4)</p>	<p style="text-align: right; font-size: small;">VID40130</p> <p>3. Who taught you most of what you know about American Indian or Alaska Native traditions (ways of life, customs)?</p> <p><input type="radio"/> No one has taught me about American Indian or Alaska Native traditions.</p> <p><input type="radio"/> Family members</p> <p><input type="radio"/> Friends</p> <p><input type="radio"/> Teachers</p> <p><input type="radio"/> Tribal representatives or elders</p> <p><input type="radio"/> Someone else (please specify): _____</p>	NC	N/A

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Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right;"><small>VID40030</small></p> <p>4. Who taught you most of what you know about American Indian or Alaska Native arts and crafts?</p> <p><input type="radio"/> No one has taught me about American Indian or Alaska Native arts and crafts.</p> <p><input type="radio"/> Family members</p> <p><input type="radio"/> Friends</p> <p><input type="radio"/> Teachers</p> <p><input type="radio"/> Tribal representatives or elders</p> <p><input type="radio"/> Some else (please specify): _____</p> <p>(2015 Grade 4)</p>	<p style="text-align: right;"><small>VID40031</small></p> <p>4. Who taught you most of what you know about American Indian or Alaska Native arts and crafts?</p> <p><input type="radio"/> No one has taught me about American Indian or Alaska Native arts and crafts.</p> <p><input type="radio"/> Family members</p> <p><input type="radio"/> Friends</p> <p><input type="radio"/> Teachers</p> <p><input type="radio"/> Tribal representatives or elders</p> <p><input type="radio"/> Someone else (please specify): _____</p>	NC	N/A
<p style="text-align: right;"><small>VC75985</small></p> <p>5. How often do you go to American Indian or Alaska Native ceremonies and gatherings?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> Every few years</p> <p><input type="radio"/> At least once a year</p> <p><input type="radio"/> Several times a year</p> <p>(2015 Grade 4)</p>	<p style="text-align: right;"><small>VID40032</small></p> <p>5. How often do you go to American Indian or Alaska Native ceremonies and gatherings?</p> <p><input type="radio"/> Never</p> <p><input type="radio"/> Every few years</p> <p><input type="radio"/> At least once a year</p> <p><input type="radio"/> Several times a year</p>	NC	N/A
<p style="text-align: right;"><small>VC759193</small></p> <p>6. How often do members of your family talk to each other in your American Indian or Alaska Native language?</p> <p><input type="radio"/> Never or hardly ever</p> <p><input type="radio"/> Once or twice a month</p> <p><input type="radio"/> Once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p> <p>(2015 Grade 4)</p>	<p style="text-align: right;"><small>VID40033</small></p> <p>6. How often do members of your family talk to each other in your American Indian or Alaska Native language?</p> <p><input type="radio"/> Never or hardly ever</p> <p><input type="radio"/> Once or twice a month</p> <p><input type="radio"/> Once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p>	NC	N/A

2019 Operational Grade 4 National Indian Education Study (NIES) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right; font-size: small;">VC759195</p> <p>7. How often do people in your school talk to each other in your American Indian or Alaska Native language?</p> <p><input type="radio"/> A Never or hardly ever</p> <p><input type="radio"/> B Once or twice a month</p> <p><input type="radio"/> C Once or twice a week</p> <p><input type="radio"/> D Every day or almost every day</p> <p>(2015 Grade 4)</p>	<p style="text-align: right; font-size: small;">VID4014</p> <p>7. How often do people in your school talk to each other in your American Indian or Alaska Native language?</p> <p><input type="radio"/> A Never or hardly ever</p> <p><input type="radio"/> B Once or twice a month</p> <p><input type="radio"/> C Once or twice a week</p> <p><input type="radio"/> D Every day or almost every day</p>	NC	N/A
<p style="text-align: right; font-size: small;">VH153907</p> <p>8. How often do you attend classes in school that are taught in an American Indian or Alaska Native language?</p> <p><input type="radio"/> A My school does not offer classes that are taught in an American Indian or Alaska Native language.</p> <p><input type="radio"/> B Never or hardly ever</p> <p><input type="radio"/> C Once or twice a month</p> <p><input type="radio"/> D Once or twice a week</p> <p><input type="radio"/> E Every day or almost every day</p> <p>(2015 Grade 4)</p>	<p style="text-align: right; font-size: small;">VID4015</p> <p>8. How often do you attend classes in school that are taught in an American Indian or Alaska Native language?</p> <p><input type="radio"/> A My school does not offer classes that are taught in an American Indian or Alaska Native language.</p> <p><input type="radio"/> B Never or hardly ever</p> <p><input type="radio"/> C Once or twice a month</p> <p><input type="radio"/> D Once or twice a week</p> <p><input type="radio"/> E Every day or almost every day</p>	NC	N/A
<p style="text-align: right; font-size: small;">VH040050</p> <p>9. How do you rate yourself in speaking an American Indian or Alaska Native language?</p> <p><input type="radio"/> A I cannot speak an American Indian or Alaska Native language.</p> <p><input type="radio"/> B I can speak a few words or phrases.</p> <p><input type="radio"/> C I can speak well.</p> <p>(2015 Grade 4)</p>	<p style="text-align: right; font-size: small;">VID4016</p> <p>9. How do you rate yourself in speaking an American Indian or Alaska Native language?</p> <p><input type="radio"/> A I cannot speak an American Indian or Alaska Native language.</p> <p><input type="radio"/> B I can speak a few words or phrases.</p> <p><input type="radio"/> C I can speak well.</p>	NC	N/A
<p style="text-align: right; font-size: small;">VH040067</p> <p>10. How do you rate yourself in reading an American Indian or Alaska Native language?</p> <p><input type="radio"/> A I cannot read in an American Indian or Alaska Native language.</p> <p><input type="radio"/> B I can read a few words or phrases.</p> <p><input type="radio"/> C I can read well.</p>	<p style="text-align: right; font-size: small;">VID4017</p> <p>10. How do you rate yourself in reading an American Indian or Alaska Native language?</p> <p><input type="radio"/> A I cannot read in an American Indian or Alaska Native language.</p> <p><input type="radio"/> B I can read a few words or phrases.</p> <p><input type="radio"/> C I can read well.</p>	NC	N/A

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Previous item	2019 item	D/A/ R/NC+	Rationale
<p>(2015 Grade 4)</p> <p style="text-align: right; font-size: small;">VH104082</p> <p>11. Who taught you most of what you know about an American Indian or Alaska Native language?</p> <p><input type="radio"/> No one has taught me about an American Indian or Alaska Native language.</p> <p><input type="radio"/> Family members</p> <p><input type="radio"/> Friends</p> <p><input type="radio"/> Teachers</p> <p><input type="radio"/> Tribal representatives or elders</p> <p><input type="radio"/> Some else (please specify): _____</p>	<p style="text-align: right; font-size: small;">VH10131</p> <p>11. Who taught you most of what you know about an American Indian or Alaska Native language?</p> <p><input type="radio"/> No one has taught me about an American Indian or Alaska Native language.</p> <p><input type="radio"/> Family members</p> <p><input type="radio"/> Friends</p> <p><input type="radio"/> Teachers</p> <p><input type="radio"/> Tribal representatives or elders</p> <p><input type="radio"/> Someone else (please specify): _____</p>	NC	N/A
<p>(2015 Grade 4)</p> <p style="text-align: right; font-size: small;">VH158483</p> <p>12. During 4th grade, have you attended school field trips to museums, traditional villages, or other places to learn about American Indian or Alaska Native people?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p>	<p style="text-align: right; font-size: small;">VH10131</p> <p>12. During 4th grade, have you attended school field trips to museums, traditional villages, or other places to learn about American Indian or Alaska Native people?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p>	NC	N/A
<p>(2015 Grade 4)</p> <p style="text-align: right; font-size: small;">VH153935</p> <p>13. During 4th grade, have you used books, videos, or other materials (including Internet resources) about American Indian or Alaska Native people in school?</p> <p><input type="radio"/> Yes, once or twice</p> <p><input type="radio"/> Yes, three or more times</p> <p><input type="radio"/> No</p>	<p style="text-align: right; font-size: small;">VH10140</p> <p>13. During 4th grade, have you used books, videos, or other materials (including Internet resources) about American Indian or Alaska Native people in school?</p> <p><input type="radio"/> Yes, once or twice</p> <p><input type="radio"/> Yes, three or more times</p> <p><input type="radio"/> No</p>	NC	N/A

2019 Operational Grade 4 National Indian Education Study (NIES) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right; font-size: small;">VH153940</p> <p>14. During 4th grade, have you used books, videos, or other materials (including Internet resources) about American Indian or Alaska Native people outside of school?</p> <p><input type="radio"/> Yes, once or twice</p> <p><input type="radio"/> Yes, three or more times</p> <p><input type="radio"/> No</p> <p>(2015 Grade 4)</p>	<p style="text-align: right; font-size: small;">V1Q40141</p> <p>14. During 4th grade, have you used books, videos, or other materials (including Internet resources) about American Indian or Alaska Native people outside of school?</p> <p><input type="radio"/> Yes, once or twice</p> <p><input type="radio"/> Yes, three or more times</p> <p><input type="radio"/> No</p>	NC	N/A
<p style="text-align: right; font-size: small;">VH153945</p> <p>15. In school, do you have access to a library, media center, or resource center with books, videos, or other materials (including Internet resources) about American Indian or Alaska Native people?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p>(2015 Grade 4)</p>	<p style="text-align: right; font-size: small;">V1Q40142</p> <p>15. In school, do you have access to a library, media center, or resource center with books, videos, or other materials (including Internet resources) about American Indian or Alaska Native people?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p>	NC	N/A
<p style="text-align: right; font-size: small;">VH40212</p> <p>16. When my teacher talks about American Indian or Alaska Native history or culture, I try to read more about it.</p> <p><input type="radio"/> This is not like me.</p> <p><input type="radio"/> This is a little like me.</p> <p><input type="radio"/> This is a lot like me.</p> <p>(2015 Grade 4)</p>	<p style="text-align: right; font-size: small;">V1Q40143</p> <p>16. When my teacher talks about American Indian or Alaska Native history or culture, I try to read more about it.</p> <p><input type="radio"/> This is not like me.</p> <p><input type="radio"/> This is a little like me.</p> <p><input type="radio"/> This is a lot like me.</p>	NC	N/A
<p style="text-align: right; font-size: small;">VC759280</p> <p>17. I enjoy reading about American Indian or Alaska Native people.</p> <p><input type="radio"/> This is not like me.</p> <p><input type="radio"/> This is a little like me.</p> <p><input type="radio"/> This is a lot like me.</p> <p>(2015 Grade 4)</p>	<p style="text-align: right; font-size: small;">V1Q40144</p> <p>17. I enjoy reading about American Indian or Alaska Native people.</p> <p><input type="radio"/> This is not like me.</p> <p><input type="radio"/> This is a little like me.</p> <p><input type="radio"/> This is a lot like me.</p>	NC	N/A

2019 Operational Grade 4 National Indian Education Study (NIES) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right; font-size: small;">VC759283</p> <p>18. I enjoy reading about people who have different traditions and cultures (ways of life, customs) than I have.</p> <p>Ⓐ This is not like me.</p> <p>Ⓑ This is a little like me.</p> <p>Ⓒ This is a lot like me.</p> <p>(2015 Grade 4)</p>	<p style="text-align: right; font-size: small;">VH00145</p> <p>18. I enjoy reading about people who have different traditions and cultures (ways of life, customs) than I have.</p> <p>Ⓐ This is not like me.</p> <p>Ⓑ This is a little like me.</p> <p>Ⓒ This is a lot like me.</p>	NC	N/A
<p style="text-align: right; font-size: small;">VH040240</p> <p>19. I put a lot of effort into my schoolwork.</p> <p>Ⓐ This is not like me.</p> <p>Ⓑ This is a little like me.</p> <p>Ⓒ This is a lot like me.</p> <p>(2015 Grade 4)</p>	<p style="text-align: right; font-size: small;">VH00146</p> <p>19. I put a lot of effort into my schoolwork.</p> <p>Ⓐ This is not like me.</p> <p>Ⓑ This is a little like me.</p> <p>Ⓒ This is a lot like me.</p>	NC	N/A
<p style="text-align: right; font-size: small;">VH040276</p> <p>20. I want to be one of the best students in my class.</p> <p>Ⓐ This is not like me.</p> <p>Ⓑ This is a little like me.</p> <p>Ⓒ This is a lot like me.</p> <p>(2015 Grade 4)</p>	<p style="text-align: right; font-size: small;">VH00147</p> <p>20. I want to be one of the best students in my class.</p> <p>Ⓐ This is not like me.</p> <p>Ⓑ This is a little like me.</p> <p>Ⓒ This is a lot like me.</p>	NC	N/A
<p style="text-align: right; font-size: small;">VH040379</p> <p>21. I enjoy being challenged in my classes.</p> <p>Ⓐ This is not like me.</p> <p>Ⓑ This is a little like me.</p> <p>Ⓒ This is a lot like me.</p> <p>(2015 Grade 4)</p>	<p style="text-align: right; font-size: small;">VH00148</p> <p>21. I enjoy being challenged in my classes.</p> <p>Ⓐ This is not like me.</p> <p>Ⓑ This is a little like me.</p> <p>Ⓒ This is a lot like me.</p>	NC	N/A
<p style="text-align: right; font-size: small;">VH040382</p> <p>22. I feel that I belong at school.</p> <p>Ⓐ This is not like me.</p> <p>Ⓑ This is a little like me.</p> <p>Ⓒ This is a lot like me.</p>	<p style="text-align: right; font-size: small;">VH00149</p> <p>22. I feel that I belong at school.</p> <p>Ⓐ This is not like me.</p> <p>Ⓑ This is a little like me.</p> <p>Ⓒ This is a lot like me.</p>	NC	N/A

2019 Operational Grade 4 National Indian Education Study (NIES) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
(2015 Grade 4)			
<small style="float: right;">VH040391</small> 23. If I put in enough effort, I will succeed in school. <input type="radio"/> Strongly disagree <input type="radio"/> Disagree <input type="radio"/> Agree <input type="radio"/> Strongly agree	<small style="float: right;">VH240108</small> 23. If I put in enough effort, I will succeed in school. <input type="radio"/> Strongly disagree <input type="radio"/> Disagree <input type="radio"/> Agree <input type="radio"/> Strongly agree	NC	N/A
(2015 Grade 8)			
<small style="float: right;">VH040394</small> 24. Trying hard in school will help me live a good life when I grow up. <input type="radio"/> Strongly disagree <input type="radio"/> Disagree <input type="radio"/> Agree <input type="radio"/> Strongly agree	<small style="float: right;">VH240111</small> 24. Trying hard in school will help me live a good life when I grow up. <input type="radio"/> Strongly disagree <input type="radio"/> Disagree <input type="radio"/> Agree <input type="radio"/> Strongly agree	NC	N/A
(2015 Grade 4)			
<small style="float: right;">VC759288</small> 25. How often does a parent or someone else from your family help you with your schoolwork? For example, they might help you to study for a test, help you with a school project, or go over your homework with you. <input type="radio"/> Never or hardly ever <input type="radio"/> Once or twice a month <input type="radio"/> Once or twice a week <input type="radio"/> Every day or almost every day	<small style="float: right;">VH240112</small> 25. How often does a parent or someone else from your family help you with your schoolwork? For example, they might help you to study for a test, help you with a school project, or go over your homework with you. <input type="radio"/> Never or hardly ever <input type="radio"/> Once or twice a month <input type="radio"/> Once or twice a week <input type="radio"/> Every day or almost every day	NC	N/A
(2015 Grade 4)			

2019 Operational Grade 4 National Indian Education Study (NIES) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right; font-size: small;">VC759289</p> <p>26. How often does a teacher or another adult from your school help you with your schoolwork? For example, they might help you to study for a test, help you with a school project, or go over your homework with you.</p> <p><input type="radio"/> A Never or hardly ever</p> <p><input type="radio"/> B Once or twice a month</p> <p><input type="radio"/> C Once or twice a week</p> <p><input type="radio"/> D Every day or almost every day</p> <p>(2015 Grade 4)</p>	<p style="text-align: right; font-size: small;">VID40153</p> <p>26. How often does a teacher or another adult from your school help you with your schoolwork? For example, they might help you to study for a test, help you with a school project, or go over your homework with you.</p> <p><input type="radio"/> A Never or hardly ever</p> <p><input type="radio"/> B Once or twice a month</p> <p><input type="radio"/> C Once or twice a week</p> <p><input type="radio"/> D Every day or almost every day</p>	NC	N/A
<p style="text-align: right; font-size: small;">VC759290</p> <p>27. How often does another student from your school help you with your schoolwork? For example, they might help you to study for a test, help you with a school project, or go over your homework with you.</p> <p><input type="radio"/> A Never or hardly ever</p> <p><input type="radio"/> B Once or twice a month</p> <p><input type="radio"/> C Once or twice a week</p> <p><input type="radio"/> D Every day or almost every day</p> <p>(2015 Grade 4)</p>	<p style="text-align: right; font-size: small;">VID40154</p> <p>27. How often does another student from your school help you with your schoolwork? For example, they might help you to study for a test, help you with a school project, or go over your homework with you.</p> <p><input type="radio"/> A Never or hardly ever</p> <p><input type="radio"/> B Once or twice a month</p> <p><input type="radio"/> C Once or twice a week</p> <p><input type="radio"/> D Every day or almost every day</p>	NC	N/A
<p style="text-align: right; font-size: small;">VER40389</p> <p>28. How often do you help other students from your school with their schoolwork? For example, you might help other students to study for a test, help them with a school project, or go over their homework with them.</p> <p><input type="radio"/> A Never or hardly ever</p> <p><input type="radio"/> B Once or twice a month</p> <p><input type="radio"/> C Once or twice a week</p> <p><input type="radio"/> D Every day or almost every day</p> <p>(2015 Grade 4)</p>	<p style="text-align: right; font-size: small;">VID40155</p> <p>28. How often do you help other students from your school with their schoolwork? For example, you might help other students to study for a test, help them with a school project, or go over their homework with them.</p> <p><input type="radio"/> A Never or hardly ever</p> <p><input type="radio"/> B Once or twice a month</p> <p><input type="radio"/> C Once or twice a week</p> <p><input type="radio"/> D Every day or almost every day</p>	NC	N/A

2019 Operational Grade 4 National Indian Education Study (NIES) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right; font-size: small;">VC759293</p> <p>29. How much do you like school?</p> <p><input type="radio"/> A Not at all</p> <p><input type="radio"/> B A little</p> <p><input type="radio"/> C Somewhat</p> <p><input type="radio"/> D Very much</p> <p>(2015 Grade 4)</p>	<p style="text-align: right; font-size: small;">VID40156</p> <p>29. How much do you like school?</p> <p><input type="radio"/> A Not at all</p> <p><input type="radio"/> B A little</p> <p><input type="radio"/> C Somewhat</p> <p><input type="radio"/> D Very much</p>	NC	N/A
<p style="text-align: right; font-size: small;">VC759294</p> <p>30. Do you know the name of the American Indian tribe or Alaska Native group you belong to or are enrolled in?</p> <p><input type="radio"/> A Yes</p> <p><input type="radio"/> B No</p> <p><input type="radio"/> C I'm not sure.</p> <p>(2015 Grade 4)</p>	<p style="text-align: right; font-size: small;">VID40157</p> <p>30. Do you know the name of the American Indian tribe or Alaska Native group you belong to or are enrolled in?</p> <p><input type="radio"/> A Yes</p> <p><input type="radio"/> B No</p> <p><input type="radio"/> C I'm not sure.</p>	NC	N/A
<p style="text-align: right; font-size: small;">VC759295</p> <p>31. If you know the name of the American Indian tribe or Alaska Native group that you belong to or are enrolled in, or if you think you know it, please print it on the line below. Do not worry about spelling. If you belong to more than one American Indian tribe or Alaska Native group, write the names of as many as you know.</p> <p>_____</p> <p>_____</p> <p>(2015 Grade 4)</p>	<p style="text-align: right; font-size: small;">VID4281</p> <p>31. If you know the name of the American Indian tribe or Alaska Native group that you belong to or are enrolled in, or if you think you know it, please print it on the line below. Do not worry about spelling. If you belong to more than one American Indian tribe or Alaska Native group, write the names of as many as you know.</p> <p>_____</p> <p>_____</p>	NC	N/A
<p style="text-align: right; font-size: small;">VC759297</p> <p>32. What else would you like to say about yourself, your school, or about American Indian or Alaska Native people? Use these lines to write your ideas.</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>(2015 Grade 4)</p>	<p style="text-align: right; font-size: small;">VID4282</p> <p>32. What else would you like to say about yourself, your school, or about American Indian or Alaska Native people? Use these lines to write your ideas.</p> <p>_____</p> <p>_____</p> <p>_____</p>	NC	N/A

Appendix K-1at: Operational Grade 4 NIES

1. How much do you know about your American Indian tribe or Alaska Native group? For example, you may know about the history, traditions, or arts and crafts of your tribe or group.

- Ⓐ Nothing
- Ⓑ A little
- Ⓒ Some
- Ⓓ A lot

2. Who taught you **most** of what you know about American Indian or Alaska Native history?

- Ⓐ No one has taught me about American Indian or Alaska Native history.
- Ⓑ Family members
- Ⓒ Friends
- Ⓓ Teachers
- Ⓔ Tribal representatives or elders
- Ⓕ Someone else (please specify):_____

3. Who taught you **most** of what you know about American Indian or Alaska Native traditions (ways of life, customs)?

- Ⓐ No one has taught me about American Indian or Alaska Native traditions.
- Ⓑ Family members
- Ⓒ Friends
- Ⓓ Teachers
- Ⓔ Tribal representatives or elders
- Ⓕ Someone else (please specify):_____

4. Who taught you **most** of what you know about American Indian or Alaska Native arts and crafts?
- Ⓐ No one has taught me about American Indian or Alaska Native arts and crafts.
 - Ⓑ Family members
 - Ⓒ Friends
 - Ⓓ Teachers
 - Ⓔ Tribal representatives or elders
 - Ⓕ Someone else (please specify):_____

5. How often do you go to American Indian or Alaska Native ceremonies and gatherings?
- Ⓐ Never
 - Ⓑ Every few years
 - Ⓒ At least once a year
 - Ⓓ Several times a year

6. How often do members of your family talk to each other in your American Indian or Alaska Native language?
- Ⓐ Never or hardly ever
 - Ⓑ Once or twice a month
 - Ⓒ Once or twice a week
 - Ⓓ Every day or almost every day

7. How often do people in your school talk to each other in your American Indian or Alaska Native language?
- Ⓐ Never or hardly ever
 - Ⓑ Once or twice a month
 - Ⓒ Once or twice a week
 - Ⓓ Every day or almost every day

8. How often do you attend classes **in school** that are taught in an American Indian or Alaska Native language?
- Ⓐ My school does not offer classes that are taught in an American Indian or Alaska Native language.
 - Ⓑ Never or hardly ever
 - Ⓒ Once or twice a month
 - Ⓓ Once or twice a week
 - Ⓔ Every day or almost every day

9. How do you rate yourself in speaking an American Indian or Alaska Native language?
- Ⓐ I cannot speak an American Indian or Alaska Native language.
 - Ⓑ I can speak a few words or phrases.
 - Ⓒ I can speak well.

10. How do you rate yourself in reading an American Indian or Alaska Native language?
- Ⓐ I cannot read in an American Indian or Alaska Native language.
 - Ⓑ I can read a few words or phrases.
 - Ⓒ I can read well.

11. Who taught you **most** of what you know about an American Indian or Alaska Native language?
- Ⓐ No one has taught me about an American Indian or Alaska Native language.
 - Ⓑ Family members
 - Ⓒ Friends
 - Ⓓ Teachers
 - Ⓔ Tribal representatives or elders
 - Ⓕ Someone else (please specify): _____

12. During 4th grade, have you attended school field trips to museums, traditional villages, or other places to learn about American Indian or Alaska Native people?
- Ⓐ Yes
 - Ⓑ No

13. During 4th grade, have you used books, videos, or other materials (including Internet resources) about American Indian or Alaska Native people **in school**?
- Ⓐ Yes, once or twice
 - Ⓑ Yes, three or more times
 - Ⓒ No

14. During 4th grade, have you used books, videos, or other materials (including Internet resources) about American Indian or Alaska Native people **outside of school**?
- Ⓐ Yes, once or twice
 - Ⓑ Yes, three or more times
 - Ⓒ No

15. In school, do you have access to a **library, media center, or resource center** with books, videos, or other materials (including Internet resources) about American Indian or Alaska Native people?

- Ⓐ Yes
- Ⓑ No

16. When my teacher talks about American Indian or Alaska Native history or culture, I try to read more about it.

- Ⓐ This is not like me.
- Ⓑ This is a little like me.
- Ⓒ This is a lot like me.

17. I enjoy reading about American Indian or Alaska Native people.

- Ⓐ This is not like me.
- Ⓑ This is a little like me.
- Ⓒ This is a lot like me.

18. I enjoy reading about people who have different traditions and cultures (ways of life, customs) than I have.

- Ⓐ This is not like me.
- Ⓑ This is a little like me.
- Ⓒ This is a lot like me.

19. I put a lot of effort into my schoolwork.

- Ⓐ This is not like me.
- Ⓑ This is a little like me.
- Ⓒ This is a lot like me.

20. I want to be one of the best students in my class.

- Ⓐ This is not like me.
- Ⓑ This is a little like me.
- Ⓒ This is a lot like me.

21. I enjoy being challenged in my classes.

- Ⓐ This is not like me.
- Ⓑ This is a little like me.
- Ⓒ This is a lot like me.

22. I feel that I belong at school.

- Ⓐ This is not like me.
- Ⓑ This is a little like me.
- Ⓒ This is a lot like me.

23. If I put in enough effort, I will succeed in school.

- Ⓐ Strongly disagree
- Ⓑ Disagree
- Ⓒ Agree
- Ⓓ Strongly agree

24. Trying hard in school will help me live a good life when I grow up.

- Ⓐ Strongly disagree
- Ⓑ Disagree
- Ⓒ Agree
- Ⓓ Strongly agree

25. How often does **a parent or someone else from your family** help you with your schoolwork? For example, they might help you to study for a test, help you with a school project, or go over your homework with you.

- Ⓐ Never or hardly ever
- Ⓑ Once or twice a month
- Ⓒ Once or twice a week
- Ⓓ Every day or almost every day

26. How often does **a teacher or another adult from your school** help you with your schoolwork? For example, they might help you to study for a test, help you with a school project, or go over your homework with you.
- Ⓐ Never or hardly ever
 - Ⓑ Once or twice a month
 - Ⓒ Once or twice a week
 - Ⓓ Every day or almost every day

27. How often does **another student from your school** help you with your schoolwork? For example, they might help you to study for a test, help you with a school project, or go over your homework with you.
- Ⓐ Never or hardly ever
 - Ⓑ Once or twice a month
 - Ⓒ Once or twice a week
 - Ⓓ Every day or almost every day

28. How often do **you** help other students from your school with their schoolwork? For example, you might help other students to study for a test, help them with a school project, or go over their homework with them.
- Ⓐ Never or hardly ever
 - Ⓑ Once or twice a month
 - Ⓒ Once or twice a week
 - Ⓓ Every day or almost every day

29. How much do you like school?

- Ⓐ Not at all
- Ⓑ A little
- Ⓒ Somewhat
- Ⓓ Very much

30. Do you know the name of the American Indian tribe or Alaska Native group you belong to or are enrolled in?

- Ⓐ Yes
- Ⓑ No
- Ⓒ I'm not sure.

31. If you know the name of the American Indian tribe or Alaska Native group that you belong to or are enrolled in, or if you think you know it, please print it on the line below. Do not worry about spelling. If you belong to more than one American Indian tribe or Alaska Native group, write the names of as many as you know.

32. What else would you like to say about yourself, your school, or about American Indian or Alaska Native people? Use these lines to write your ideas.

Appendix K-1au: Summary of Changes Operational Grade 8 NIES

2019 Operational Grade 8 National Indian Education Study (NIES) Student

Previous item	2019 item	D/A/R/NC+	Rationale																																								
<p>1. How much do you know about each of the following? Fill in one oval on each line.</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 10%;">Nothing</th> <th style="width: 10%;">A little</th> <th style="width: 10%;">Some</th> <th style="width: 10%;">A lot</th> </tr> </thead> <tbody> <tr> <td>a. Your American Indian or Alaska Native history</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> <tr> <td>b. Your American Indian or Alaska Native traditions and culture (way of life, customs)</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> <tr> <td>c. Issues today that are important to American Indian or Alaska Native people</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> </tbody> </table> <p>(2015 Grade 8)</p>		Nothing	A little	Some	A lot	a. Your American Indian or Alaska Native history	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	b. Your American Indian or Alaska Native traditions and culture (way of life, customs)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	c. Issues today that are important to American Indian or Alaska Native people	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<p>1. How much do you know about each of the following? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 10%;">Nothing</th> <th style="width: 10%;">A little</th> <th style="width: 10%;">Some</th> <th style="width: 10%;">A lot</th> </tr> </thead> <tbody> <tr> <td>a. Your American Indian or Alaska Native history</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> <tr> <td>b. Your American Indian or Alaska Native traditions and culture (way of life, customs)</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> <tr> <td>c. Issues today that are important to American Indian or Alaska Native people</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> </tbody> </table>		Nothing	A little	Some	A lot	a. Your American Indian or Alaska Native history	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	b. Your American Indian or Alaska Native traditions and culture (way of life, customs)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	c. Issues today that are important to American Indian or Alaska Native people	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	NC	<p>The in-line direction was adapted from PBA to DBA: "Fill in one oval on each line." was adapted to "Select one answer choice on each row."</p>
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2019 Operational Grade 8 National Indian Education Study (NIES) Student

Previous item	2019 item	D/A/R/NC+	Rationale																																																
<p style="text-align: right; font-size: small;">VIC039931</p> <p>4. Who taught you most of what you know about issues today that are important to American Indian or Alaska Native people?</p> <p><input type="radio"/> No one has taught me about issues today that are important to American Indian or Alaska Native people.</p> <p><input type="radio"/> Family members</p> <p><input type="radio"/> Friends</p> <p><input type="radio"/> Teachers</p> <p><input type="radio"/> Tribal representatives or elders</p> <p><input type="radio"/> Someone else (please specify): _____</p> <p>(2015 Grade 8)</p>	<p style="text-align: right; font-size: small;">VIC01055</p> <p>4. Who taught you most of what you know about issues today that are important to American Indian or Alaska Native people?</p> <p><input type="radio"/> No one has taught me about issues today that are important to American Indian or Alaska Native people.</p> <p><input type="radio"/> Family members</p> <p><input type="radio"/> Friends</p> <p><input type="radio"/> Teachers</p> <p><input type="radio"/> Tribal representatives or elders</p> <p><input type="radio"/> Someone else (please specify):_____</p>	NC	N/A																																																
<p style="text-align: right; font-size: small;">VC090584</p> <p>5. How often have you participated in each of the following? Fill in one oval on each line.</p> <table style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 45%;"></th> <th style="width: 10%; text-align: center;">Never</th> <th style="width: 10%; text-align: center;">Every few years</th> <th style="width: 10%; text-align: center;">At least once a year</th> <th style="width: 10%; text-align: center;">Several times a year</th> <th style="width: 15%;"></th> </tr> </thead> <tbody> <tr> <td>a. 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Other American Indian or Alaska Native activities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VC090589	<p style="text-align: right; font-size: small;">VIC01058</p> <p>5. How often have you participated in each of the following? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 45%;"></th> <th style="width: 10%; text-align: center;">Never</th> <th style="width: 10%; text-align: center;">Every few years</th> <th style="width: 10%; text-align: center;">At least once a year</th> <th style="width: 10%; text-align: center;">Several times a year</th> <th style="width: 15%;"></th> </tr> </thead> <tbody> <tr> <td>a. 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<p style="text-align: right; font-size: small;">VC750193</p> <p>6. How often do members of your family talk to each other in your American Indian or Alaska Native language?</p> <p><input type="radio"/> Never or hardly ever</p> <p><input type="radio"/> Once or twice a month</p> <p><input type="radio"/> Once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p> <p>(2015 Grade 8)</p>	<p style="text-align: right; font-size: small;">VIC01033</p> <p>6. How often do members of your family talk to each other in your American Indian or Alaska Native language?</p> <p><input type="radio"/> Never or hardly ever</p> <p><input type="radio"/> Once or twice a month</p> <p><input type="radio"/> Once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p>	NC	N/A																																																

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2019 Operational Grade 8 National Indian Education Study (NIES) Student

Previous item	2019 item	D/A/R/NC+	Rationale
<p style="text-align: right; font-size: small;">VC750195</p> <p>7. How often do people in your school talk to each other in your American Indian or Alaska Native language?</p> <ul style="list-style-type: none"> <input type="radio"/> Never or hardly ever <input type="radio"/> Once or twice a month <input type="radio"/> Once or twice a week <input type="radio"/> Every day or almost every day <p>(2015 Grade 8)</p>	<p style="text-align: right; font-size: small;">VIE00131</p> <p>7. How often do people in your school talk to each other in your American Indian or Alaska Native language?</p> <ul style="list-style-type: none"> <input type="radio"/> Never or hardly ever <input type="radio"/> Once or twice a month <input type="radio"/> Once or twice a week <input type="radio"/> Every day or almost every day 	NC	N/A
<p style="text-align: right; font-size: small;">VH153907</p> <p>8. How often do you attend classes in school that are taught in an American Indian or Alaska Native language?</p> <ul style="list-style-type: none"> <input type="radio"/> My school does not offer classes that are taught in an American Indian or Alaska Native language. <input type="radio"/> Never or hardly ever <input type="radio"/> Once or twice a month <input type="radio"/> Once or twice a week <input type="radio"/> Every day or almost every day <p>(2015 Grade 8)</p>	<p style="text-align: right; font-size: small;">VIE00135</p> <p>8. How often do you attend classes in school that are taught in an American Indian or Alaska Native language?</p> <ul style="list-style-type: none"> <input type="radio"/> My school does not offer classes that are taught in an American Indian or Alaska Native language. <input type="radio"/> Never or hardly ever <input type="radio"/> Once or twice a month <input type="radio"/> Once or twice a week <input type="radio"/> Every day or almost every day 	NC	N/A
<p style="text-align: right; font-size: small;">VIE00050</p> <p>9. How do you rate yourself in speaking an American Indian or Alaska Native language?</p> <ul style="list-style-type: none"> <input type="radio"/> I cannot speak an American Indian or Alaska Native language. <input type="radio"/> I can speak a few words or phrases. <input type="radio"/> I can speak well. <p>(2015 Grade 8)</p>	<p style="text-align: right; font-size: small;">VIE00136</p> <p>9. How do you rate yourself in speaking an American Indian or Alaska Native language?</p> <ul style="list-style-type: none"> <input type="radio"/> I cannot speak an American Indian or Alaska Native language. <input type="radio"/> I can speak a few words or phrases. <input type="radio"/> I can speak well. 	NC	N/A
<p style="text-align: right; font-size: small;">VIE00057</p> <p>10. How do you rate yourself in reading an American Indian or Alaska Native language?</p> <ul style="list-style-type: none"> <input type="radio"/> I cannot read in an American Indian or Alaska Native language. <input type="radio"/> I can read a few words or phrases. <input type="radio"/> I can read well. <p>(2015 Grade 8)</p>	<p style="text-align: right; font-size: small;">VIE00137</p> <p>10. How do you rate yourself in reading an American Indian or Alaska Native language?</p> <ul style="list-style-type: none"> <input type="radio"/> I cannot read in an American Indian or Alaska Native language. <input type="radio"/> I can read a few words or phrases. <input type="radio"/> I can read well. 	NC	N/A

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2019 Operational Grade 8 National Indian Education Study (NIES) Student

Previous item	2019 item	D/A/R/NC+	Rationale																																								
<p style="text-align: right; font-size: small;">V1E00382</p> <p>11. Who taught you most of what you know about an American Indian or Alaska Native language?</p> <p><input type="radio"/> No one has taught me about an American Indian or Alaska Native language.</p> <p><input type="radio"/> Family members</p> <p><input type="radio"/> Friends</p> <p><input type="radio"/> Teachers</p> <p><input type="radio"/> Tribal representatives or elders</p> <p><input type="radio"/> Someone else (please specify): _____</p> <p>(2015 Grade 8)</p>	<p style="text-align: right; font-size: small;">V1E00131</p> <p>11. Who taught you most of what you know about an American Indian or Alaska Native language?</p> <p><input type="radio"/> No one has taught me about an American Indian or Alaska Native language.</p> <p><input type="radio"/> Family members</p> <p><input type="radio"/> Friends</p> <p><input type="radio"/> Teachers</p> <p><input type="radio"/> Tribal representatives or elders</p> <p><input type="radio"/> Someone else (please specify): _____</p>	NC	N/A																																								
<p style="text-align: right; font-size: small;">VC096500</p> <p>12. During 8th grade, how often have any of your teachers talked to your class about the history, traditions, and cultures (ways of life, customs) of American Indian or Alaska Native people?</p> <p><input type="radio"/> Never or hardly ever</p> <p><input type="radio"/> Once or twice a month</p> <p><input type="radio"/> Once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p> <p>(2015 Grade 8)</p>	<p style="text-align: right; font-size: small;">V1E0159</p> <p>12. During 8th grade, how often have any of your teachers talked to your class about the history, traditions, and cultures (ways of life, customs) of American Indian or Alaska Native people?</p> <p><input type="radio"/> Never or hardly ever</p> <p><input type="radio"/> Once or twice a month</p> <p><input type="radio"/> Once or twice a week</p> <p><input type="radio"/> Every day or almost every day</p>	NC	N/A																																								
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2019 Operational Grade 8 National Indian Education Study (NIES) Student

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<p style="text-align: right; font-size: small;">V1E159110</p> <p>16. During 8th grade, have you used books, videos, or other materials (including Internet resources) about American Indian or Alaska Native people outside of school?</p> <p><input type="radio"/> Yes, once or twice</p> <p><input type="radio"/> Yes, three or more times</p> <p><input type="radio"/> No</p> <p>(2015 Grade 8)</p>	<p style="text-align: right; font-size: small;">V1E240161</p> <p>16. During 8th grade, have you used books, videos, or other materials (including Internet resources) about American Indian or Alaska Native people outside of school?</p> <p><input type="radio"/> Yes, once or twice</p> <p><input type="radio"/> Yes, three or more times</p> <p><input type="radio"/> No</p>	NC	N/A																																								
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2019 Operational Grade 8 National Indian Education Study (NIES) Student

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<p style="text-align: right; font-size: small;">VID40157</p> <p>20. How much do you agree with each of the following statements? Fill in one oval on each line.</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"></th> <th style="width: 10%; text-align: center;">Strongly disagree</th> <th style="width: 10%; text-align: center;">Disagree</th> <th style="width: 10%; text-align: center;">Agree</th> <th style="width: 10%; text-align: center;">Strongly agree</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>a. If I put in enough effort, I will succeed in school.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VID40158</td> </tr> <tr> <td>b. If I put in enough effort in school, I will get into college.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VID40160</td> </tr> <tr> <td>c. If I put in enough effort in school, I will get a good job.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VID40161</td> </tr> </tbody> </table> <p>(2015 Grade 8)</p>		Strongly disagree	Disagree	Agree	Strongly agree		a. If I put in enough effort, I will succeed in school.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VID40158	b. If I put in enough effort in school, I will get into college.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VID40160	c. If I put in enough effort in school, I will get a good job.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VID40161	<p style="text-align: right; font-size: small;">VID40154</p> <p>20. How much do you agree with each of the following statements? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"></th> <th style="width: 10%; text-align: center;">Strongly disagree</th> <th style="width: 10%; text-align: center;">Disagree</th> <th style="width: 10%; text-align: center;">Agree</th> <th style="width: 10%; text-align: center;">Strongly agree</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>a. If I put in enough effort, I will succeed in school.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VID41545</td> </tr> <tr> <td>b. If I put in enough effort in school, I will get into college.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VID41547</td> </tr> <tr> <td>c. If I put in enough effort in school, I will get a good job.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VID41546</td> </tr> </tbody> </table>		Strongly disagree	Disagree	Agree	Strongly agree		a. If I put in enough effort, I will succeed in school.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VID41545	b. If I put in enough effort in school, I will get into college.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VID41547	c. If I put in enough effort in school, I will get a good job.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VID41546	NC	<p>The in-line direction was adapted from PBA to DBA: "Fill in one oval on each line." was adapted to "Select one answer choice on each row."</p>
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b. A teacher	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>																																																																					
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2019 Operational Grade 8 National Indian Education Study (NIES) Student

Previous item	2019 item	D/A/R/NC+	Rationale																																																																																				
<p>27. Which of the following would you plan to do in your first year after high school? Fill in as many ovals as apply.</p> <p>a. Go to college full time <input type="radio"/></p> <p>b. Go to college part time <input type="radio"/></p> <p>c. Go to another school (for example, career training, technical, or trade/vocational) full time <input type="radio"/></p> <p>d. Go to another school (for example, career training, technical, or trade/vocational) part time <input type="radio"/></p> <p>e. Join the military <input type="radio"/></p> <p>f. Work full time <input type="radio"/></p> <p>g. Work part time <input type="radio"/></p> <p>h. Travel <input type="radio"/></p> <p>i. Care for family <input type="radio"/></p> <p>j. I don't know. <input type="radio"/></p> <p>(2015 Grade 8)</p>	<p>27. Do you plan to do any of the following in your first year after high school? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>Yes</th> <th>No</th> <th></th> </tr> </thead> <tbody> <tr> <td>a. Go to college full time</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH241563</td> </tr> <tr> <td>b. Go to college part time</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH241564</td> </tr> <tr> <td>c. Go to another school (for example, career training, technical, or trade/vocational) full time</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH241565</td> </tr> <tr> <td>d. Go to another school (for example, career training, technical, or trade/vocational) part time</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH241566</td> </tr> <tr> <td>e. Join the military</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH241572</td> </tr> <tr> <td>f. Work full time</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH241568</td> </tr> <tr> <td>g. Work part time</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH241569</td> </tr> <tr> <td>h. Travel</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH241570</td> </tr> <tr> <td>i. Care for family</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH241571</td> </tr> <tr> <td>j. I don't know.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td>VH241567</td> </tr> </tbody> </table>		Yes	No		a. Go to college full time	<input type="radio"/>	<input type="radio"/>	VH241563	b. Go to college part time	<input type="radio"/>	<input type="radio"/>	VH241564	c. Go to another school (for example, career training, technical, or trade/vocational) full time	<input type="radio"/>	<input type="radio"/>	VH241565	d. Go to another school (for example, career training, technical, or trade/vocational) part time	<input type="radio"/>	<input type="radio"/>	VH241566	e. Join the military	<input type="radio"/>	<input type="radio"/>	VH241572	f. Work full time	<input type="radio"/>	<input type="radio"/>	VH241568	g. Work part time	<input type="radio"/>	<input type="radio"/>	VH241569	h. Travel	<input type="radio"/>	<input type="radio"/>	VH241570	i. Care for family	<input type="radio"/>	<input type="radio"/>	VH241571	j. I don't know.	<input type="radio"/>	<input type="radio"/>	VH241567	R	<p>This item was revised in item type and sentence structure of this item based on the structure for Core household possession item.</p> <p>The in-line direction was adapted from PBA to DBA: "Fill in as many ovals as apply." was adapted to "Select one answer choice on each row."</p>																																								
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2019 Operational Grade 8 National Indian Education Study (NIES) Student

Previous item	2019 item	D/A/R/NC+	Rationale
(2015 Grade 8)			"Select one answer choice on each row."
<p style="text-align: right; font-size: small;">VC759294</p> <p>29. Do you know the name of the American Indian tribe or Alaska Native group you belong to or are enrolled in?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input type="radio"/> I'm not sure.</p> <p>(2015 Grade 8)</p>	<p style="text-align: right; font-size: small;">VID40157</p> <p>29. Do you know the name of the American Indian tribe or Alaska Native group you belong to or are enrolled in?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input type="radio"/> I'm not sure.</p>	NC	N/A
<p style="text-align: right; font-size: small;">VC759295</p> <p>30. If you know the name of the American Indian tribe or Alaska Native group that you belong to or are enrolled in, or if you think you know it, please print it on the line below. Do not worry about spelling. If you belong to more than one American Indian tribe or Alaska Native group, write the names of as many as you know.</p> <p>_____</p> <p>_____</p> <p>(2015 Grade 8)</p>	<p style="text-align: right; font-size: small;">VID42981</p> <p>30. If you know the name of the American Indian tribe or Alaska Native group that you belong to or are enrolled in, or if you think you know it, please print it on the line below. Do not worry about spelling. If you belong to more than one American Indian tribe or Alaska Native group, write the names of as many as you know.</p> <p>_____</p> <p>_____</p>	NC	N/A
<p style="text-align: right; font-size: small;">VC759297</p> <p>31. What else would you like to say about yourself, your school, or about American Indian or Alaska Native people? Use these lines to write your ideas.</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>(2015 Grade 8)</p>	<p style="text-align: right; font-size: small;">VID42982</p> <p>31. What else would you like to say about yourself, your school, or about American Indian or Alaska Native people? Use these lines to write your ideas.</p> <p>_____</p> <p>_____</p> <p>_____</p>	NC	N/A

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

Appendix K-1av: Operational Grade 8 NIES

1. How much do you know about each of the following? Select **one** answer choice on each row.

	Nothing	A little	Some	A lot	
a. Your American Indian or Alaska Native history	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH241515
b. Your American Indian or Alaska Native traditions and culture (way of life, customs)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH241517
c. Issues today that are important to American Indian or Alaska Native people	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH241516

2. Who taught you **most** of what you know about American Indian or Alaska Native history?

- Ⓐ No one has taught me about American Indian or Alaska Native history.
- Ⓑ Family members
- Ⓒ Friends
- Ⓓ Teachers
- Ⓔ Tribal representatives or elders
- Ⓕ Someone else (please specify):_____

3. Who taught you **most** of what you know about American Indian or Alaska Native traditions (ways of life, customs)?

- Ⓐ No one has taught me about American Indian or Alaska Native traditions.
- Ⓑ Family members
- Ⓒ Friends
- Ⓓ Teachers
- Ⓔ Tribal representatives or elders
- Ⓕ Someone else (please specify):_____

4. Who taught you **most** of what you know about issues today that are important to American Indian or Alaska Native people?
- Ⓐ No one has taught me about issues today that are important to American Indian or Alaska Native people.
 - Ⓑ Family members
 - Ⓒ Friends
 - Ⓓ Teachers
 - Ⓔ Tribal representatives or elders
 - Ⓕ Someone else (please specify):_____

5. How often have you participated in each of the following? Select **one** answer choice on each row.

	Never	Every few years	At least once a year	Several times a year	
a. Ceremonies and gatherings for people from your American Indian tribe or Alaska Native group	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH241519
b. Ceremonies and gatherings that bring people together from many different American Indian tribes or Alaska Native groups	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH241521
c. Other American Indian or Alaska Native activities	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH241520

6. How often do members of your family talk to each other in your American Indian or Alaska Native language?
- Ⓐ Never or hardly ever
 - Ⓑ Once or twice a month
 - Ⓒ Once or twice a week
 - Ⓓ Every day or almost every day

7. How often do people in your school talk to each other in your American Indian or Alaska Native language?
- Ⓐ Never or hardly ever
 - Ⓑ Once or twice a month
 - Ⓒ Once or twice a week
 - Ⓓ Every day or almost every day

8. How often do you attend classes **in school** that are taught in an American Indian or Alaska Native language?
- Ⓐ My school does not offer classes that are taught in an American Indian or Alaska Native language.
 - Ⓑ Never or hardly ever
 - Ⓒ Once or twice a month
 - Ⓓ Once or twice a week
 - Ⓔ Every day or almost every day

9. How do you rate yourself in speaking an American Indian or Alaska Native language?
- Ⓐ I cannot speak an American Indian or Alaska Native language.
 - Ⓑ I can speak a few words or phrases.
 - Ⓒ I can speak well.

10. How do you rate yourself in reading an American Indian or Alaska Native language?
- Ⓐ I cannot read in an American Indian or Alaska Native language.
 - Ⓑ I can read a few words or phrases.
 - Ⓒ I can read well.

11. Who taught you **most** of what you know about an American Indian or Alaska Native language?
- Ⓐ No one has taught me about an American Indian or Alaska Native language.
 - Ⓑ Family members
 - Ⓒ Friends
 - Ⓓ Teachers
 - Ⓔ Tribal representatives or elders
 - Ⓕ Someone else (please specify):_____

12. During 8th grade, how often have any of your teachers talked to your class about the history, traditions, and cultures (ways of life, customs) of American Indian or Alaska Native people?
- Ⓐ Never or hardly ever
 - Ⓑ Once or twice a month
 - Ⓒ Once or twice a week
 - Ⓓ Every day or almost every day

13. During 8th grade, have you attended any of the following activities **organized by your school**? Select **one** answer choice on each row.

	Yes	No	
a. Presentations by American Indian or Alaska Native people about their traditions and cultures (ways of life, customs)	<input type="radio"/> A	<input type="radio"/> B	VH241523
b. American Indian or Alaska Native art and craft demonstrations	<input type="radio"/> A	<input type="radio"/> B	VH241526
c. Traditional American Indian or Alaska Native music and/or dance performances	<input type="radio"/> A	<input type="radio"/> B	VH241525
d. Field trips to museums, traditional villages, or other places to learn about American Indian or Alaska Native people	<input type="radio"/> A	<input type="radio"/> B	VH241524

14. During 8th grade, have you participated in any of the following activities **organized by your school**? Select **one** answer choice on each row.

	Yes	No	
a. Sports team	<input type="radio"/> A	<input type="radio"/> B	VH241528
b. Music club, orchestra, or band	<input type="radio"/> A	<input type="radio"/> B	VH241532
c. Cultural dances or other American Indian or Alaska Native activities (for example, drum groups)	<input type="radio"/> A	<input type="radio"/> B	VH241531
d. Academic club (for example, math club)	<input type="radio"/> A	<input type="radio"/> B	VH241530

15. During 8th grade, have you used books, videos, or other materials (including Internet resources) about American Indian or Alaska Native people **in school**?

- A Yes, once or twice
- B Yes, three or more times
- C No

16. During 8th grade, have you used books, videos, or other materials (including Internet resources) about American Indian or Alaska Native people **outside of school**?

- Ⓐ Yes, once or twice
- Ⓑ Yes, three or more times
- Ⓒ No

17. **In school**, do you have access to a **library, media center, or resource center** with books, videos, or other materials (including Internet resources) about American Indian or Alaska Native people?

- Ⓐ Yes
- Ⓑ No

18. Here are some sentences about reading. Fill in **one** oval on each line to show whether the sentence describes a person like you.

	This is not like me.	This is a little like me.	This is a lot like me.	
a. When my teacher talks about American Indian or Alaska Native history or culture, I try to read more about it.	Ⓐ	Ⓑ	Ⓒ	VH241536
b. I enjoy reading about American Indian or Alaska Native people.	Ⓐ	Ⓑ	Ⓒ	VH241538
c. I enjoy reading about people who have different traditions and cultures (ways of life, customs) than I have.	Ⓐ	Ⓑ	Ⓒ	VH241537

19. Here are some sentences about your school. Fill in **one** oval on each line to show whether the sentence describes a person like you.

	This is not like me.	This is a little like me.	This is a lot like me.	
a. I put a lot of effort into my schoolwork.	Ⓐ	Ⓑ	Ⓒ	VH241540
b. I want to be one of the best students in my class.	Ⓐ	Ⓑ	Ⓒ	VH241543
c. I enjoy being challenged in my classes.	Ⓐ	Ⓑ	Ⓒ	VH241542
d. I feel that I belong at school.	Ⓐ	Ⓑ	Ⓒ	VH241541

20. How much do you agree with each of the following statements? Select **one** answer choice on each row.

	Strongly disagree	Disagree	Agree	Strongly agree	
a. If I put in enough effort, I will succeed in school.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH241545
b. If I put in enough effort in school, I will get into college.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH241547
c. If I put in enough effort in school, I will get a good job.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH241546

21. How much do you like school?

- Ⓐ Not at all
- Ⓑ A little
- Ⓒ Somewhat
- Ⓓ Very much

22. How much are the things you are learning in school preparing you for the life you want to lead?
- Ⓐ Not at all
 - Ⓑ A little
 - Ⓒ A fair amount
 - Ⓓ Very much

23. During 8th grade, how often have you talked with any of your teachers outside of regular class periods? For example, to get extra help with your assignments, to talk about issues that matter to you, or just to visit.
- Ⓐ Never or hardly ever
 - Ⓑ Once or twice a month
 - Ⓒ Once or twice a week
 - Ⓓ Every day or almost every day

24. How often do **you** help other students from your school with their schoolwork? For example, you might help other students to study for a test, help them with a school project, or go over their homework with them.
- Ⓐ Never or hardly ever
 - Ⓑ Once or twice a month
 - Ⓒ Once or twice a week
 - Ⓓ Every day or almost every day

25. How often do any of the following people help you with your schoolwork? For example, they might help you to study for a test, help you with a school project, or go over your homework with you. Select **one** answer choice on each row.

	Never or hardly ever	Once or twice a month	Once or twice a week	Every day or almost every day	
a. A parent or someone else from my family	(A)	(B)	(C)	(D)	VH241549
b. A teacher or another adult from my school	(A)	(B)	(C)	(D)	VH241550
c. Another student	(A)	(B)	(C)	(D)	VH241553
d. A tribal representative or elder	(A)	(B)	(C)	(D)	VH241551

26. During 8th grade, how many times have you talked to each of the following people about the classes you should take in high school or about what you want to do after high school? Select **one** answer choice on each row.

	Never	One time	Two or three times	Four or more times	
a. A family member	(A)	(B)	(C)	(D)	VH241555
b. A teacher	(A)	(B)	(C)	(D)	VH241556
c. A school counselor	(A)	(B)	(C)	(D)	VH241557
d. Another student	(A)	(B)	(C)	(D)	VH241561
e. A tribal representative or elder	(A)	(B)	(C)	(D)	VH241560
f. Someone else who lives in my community or is a friend of my family	(A)	(B)	(C)	(D)	VH241558

27. Do you plan to do any of the following in your first year after high school? Select **one** answer choice on each row.

	Yes	No	
a. Go to college full time	<input type="radio"/> A	<input type="radio"/> B	VH241563
b. Go to college part time	<input type="radio"/> A	<input type="radio"/> B	VH241564
c. Go to another school (for example, career training, technical, or trade/vocational) full time	<input type="radio"/> A	<input type="radio"/> B	VH241565
d. Go to another school (for example, career training, technical, or trade/vocational) part time	<input type="radio"/> A	<input type="radio"/> B	VH241566
e. Join the military	<input type="radio"/> A	<input type="radio"/> B	VH241572
f. Work full time	<input type="radio"/> A	<input type="radio"/> B	VH241568
g. Work part time	<input type="radio"/> A	<input type="radio"/> B	VH241569
h. Travel	<input type="radio"/> A	<input type="radio"/> B	VH241570
i. Care for family	<input type="radio"/> A	<input type="radio"/> B	VH241571
j. I don't know.	<input type="radio"/> A	<input type="radio"/> B	VH241567

28. To what extent is each of the following a problem in your school? Select **one** answer choice on each row.

	Not at all	Small extent	Moderate extent	Large extent	
a. Student tardiness	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH241574
b. Student health problems	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH241575
c. Student misbehavior in class	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH241576
d. Physical conflicts among students	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH241580
e. Bullying	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH241578
f. Low student motivation	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH241579

29. Do you know the name of the American Indian tribe or Alaska Native group you belong to or are enrolled in?

- A Yes
- B No
- C I'm not sure.

30. If you know the name of the American Indian tribe or Alaska Native group that you belong to or are enrolled in, or if you think you know it, please print it on the line below. Do not worry about spelling. If you belong to more than one American Indian tribe or Alaska Native group, write the names of as many as you know.

31. What else would you like to say about yourself, your school, or about American Indian or Alaska Native people? Use these lines to write your ideas.

Appendix K-1aw: Summary of Changes Operational Grade 4 CAFS

2019 Operational Grade 4 Computer and Familiarity Study (CAFS) Student

Previous item	2019 item	D/A/ R/NC+	Rationale																																																								
<p>1. At home, do you have any of the following? Select one answer choice on each row.</p> <p style="text-align: right; font-size: small;">V1270138</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 10%;">Yes</th> <th style="width: 10%;">No</th> <th style="width: 20%;"></th> </tr> </thead> <tbody> <tr> <td>a. A laptop or desktop computer that is only for your use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">V1270141</td> </tr> <tr> <td>b. A laptop or desktop computer that is shared between you and others</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">V1270142</td> </tr> <tr> <td>c. A tablet that is only for your use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">V1270139</td> </tr> <tr> <td>d. A tablet that is shared between you and others</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">V1270140</td> </tr> <tr> <td>e. Wi-Fi or some other Internet connection you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">V1270143</td> </tr> <tr> <td>f. A smartphone that is only for your use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">V1270144</td> </tr> </tbody> </table> <p>(2017 Grade 4)</p>		Yes	No		a. A laptop or desktop computer that is only for your use	<input type="radio"/>	<input type="radio"/>	V1270141	b. A laptop or desktop computer that is shared between you and others	<input type="radio"/>	<input type="radio"/>	V1270142	c. A tablet that is only for your use	<input type="radio"/>	<input type="radio"/>	V1270139	d. A tablet that is shared between you and others	<input type="radio"/>	<input type="radio"/>	V1270140	e. Wi-Fi or some other Internet connection you can use	<input type="radio"/>	<input type="radio"/>	V1270143	f. A smartphone that is only for your use	<input type="radio"/>	<input type="radio"/>	V1270144	<p>1. At home, do you have any of the following? Select one answer choice on each row.</p> <p style="text-align: right; font-size: small;">V1270138</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 10%;">Yes</th> <th style="width: 10%;">No</th> <th style="width: 20%;"></th> </tr> </thead> <tbody> <tr> <td>a. A laptop or desktop computer that is only for your use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">V1270141</td> </tr> <tr> <td>b. A laptop or desktop computer that is shared between you and others</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">V1270142</td> </tr> <tr> <td>c. A tablet that is only for your use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">V1270139</td> </tr> <tr> <td>d. A tablet that is shared between you and others</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">V1270140</td> </tr> <tr> <td>e. Wi-Fi or some other Internet connection you can use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">V1270143</td> </tr> <tr> <td>f. A smartphone that is only for your use</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">V1270144</td> </tr> </tbody> </table>		Yes	No		a. A laptop or desktop computer that is only for your use	<input type="radio"/>	<input type="radio"/>	V1270141	b. A laptop or desktop computer that is shared between you and others	<input type="radio"/>	<input type="radio"/>	V1270142	c. A tablet that is only for your use	<input type="radio"/>	<input type="radio"/>	V1270139	d. A tablet that is shared between you and others	<input type="radio"/>	<input type="radio"/>	V1270140	e. Wi-Fi or some other Internet connection you can use	<input type="radio"/>	<input type="radio"/>	V1270143	f. A smartphone that is only for your use	<input type="radio"/>	<input type="radio"/>	V1270144	NC	N/A
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<p>3. When did you first use a tablet?</p> <p style="text-align: right; font-size: small;">V1270002</p> <ul style="list-style-type: none"> <input type="radio"/> Never until this assessment <input type="radio"/> Before I was in kindergarten <input type="radio"/> When I was in kindergarten <input type="radio"/> When I was in first, second, or third grade <input type="radio"/> When I was in fourth grade <p>(2017 Grade 4)</p>	<p>3. When did you first use a tablet?</p> <p style="text-align: right; font-size: small;">V1270002</p> <ul style="list-style-type: none"> <input type="radio"/> Never until this assessment <input type="radio"/> Before I was in kindergarten <input type="radio"/> When I was in kindergarten <input type="radio"/> When I was in first, second, or third grade <input type="radio"/> When I was in fourth grade 	NC	N/A																																																								
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<p style="text-align: right; font-size: small;">V1E70147</p> <p>5. On a weekday, about how many hours do you use a laptop or desktop computer for doing schoolwork, including homework?</p> <p><input type="radio"/> None</p> <p><input type="radio"/> Less than an hour</p> <p><input type="radio"/> 1 to 2 hours</p> <p><input type="radio"/> 2 to 3 hours</p> <p><input type="radio"/> 3 to 4 hours</p> <p><input type="radio"/> More than 4 hours</p> <p>(2017 Grade 4)</p>	<p style="text-align: right; font-size: small;">V1E70147</p> <p>5. On a weekday, about how many hours do you use a laptop or desktop computer for doing schoolwork, including homework?</p> <p><input type="radio"/> None</p> <p><input type="radio"/> Less than an hour</p> <p><input type="radio"/> 1 to 2 hours</p> <p><input type="radio"/> 2 to 3 hours</p> <p><input type="radio"/> 3 to 4 hours</p> <p><input type="radio"/> More than 4 hours</p>	NC	N/A																																																								
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f. Take a test	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V18270192																																																																																															
	Never	A few times	Once every few weeks	About once a week	More than once a week																																																																																																
a. Write a short paper (less than a page) for school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V18270183																																																																																															
b. Write a paper for school that was longer than a page	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V18270188																																																																																															
c. Search the Internet for a school project	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V18270184																																																																																															
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<p>13. Which best describes the way you type on a computer keyboard? V18270130</p> <ul style="list-style-type: none"> <input type="radio"/> I don't know how to type using a computer keyboard. <input type="radio"/> I can type with one or two fingers, but I have to search for where the letter keys are. <input type="radio"/> I can type with one or two fingers, and I know where most of the letter keys are. <input type="radio"/> I can type with all ten fingers when I look at the keyboard. <input type="radio"/> I can type with all ten fingers without looking at the keyboard. <p>(2017 Grade 4)</p>	<p>13. Which best describes the way you type on a computer keyboard? V18270130</p> <ul style="list-style-type: none"> <input type="radio"/> I don't know how to type using a computer keyboard. <input type="radio"/> I can type with one or two fingers, but I have to search for where the letter keys are. <input type="radio"/> I can type with one or two fingers, and I know where most of the letter keys are. <input type="radio"/> I can type with all ten fingers when I look at the keyboard. <input type="radio"/> I can type with all ten fingers without looking at the keyboard. 	NC	N/A																																																																																																		

2019 Operational Grade 4 Computer and Familiarity Study (CAFS) Student

Previous item	2019 item	D/A/ R/NC+	Rationale																																																																																																																																																
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i. Spinalbyte	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1E270208																																																																																																																																														
j. Server	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1E270210																																																																																																																																														
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a. Wi-Fi	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1E270199																																																																																																																																														
b. Firewall	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1E270197																																																																																																																																														
c. Neuro-digital computing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1E270194																																																																																																																																														
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f. Pyramidal browser	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1E270204																																																																																																																																														
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k. Callosum board	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1E270214																																																																																																																																														

Appendix K-1ax: Operational Grade 4 CAFS

1. At home, do you have any of the following? Select **one** answer choice on each row.

	Yes	No	
a. A laptop or desktop computer that is only for your use	<input type="radio"/> A	<input type="radio"/> B	VH270141
b. A laptop or desktop computer that is shared between you and others	<input type="radio"/> A	<input type="radio"/> B	VH270142
c. A tablet that is only for your use	<input type="radio"/> A	<input type="radio"/> B	VH270139
d. A tablet that is shared between you and others	<input type="radio"/> A	<input type="radio"/> B	VH270140
e. Wi-Fi or some other Internet connection you can use	<input type="radio"/> A	<input type="radio"/> B	VH270143
f. A smartphone that is only for your use	<input type="radio"/> A	<input type="radio"/> B	VH270144

2. When did you first use a **laptop or desktop computer**?

- A I have never used one.
- B Before I was in kindergarten
- C When I was in kindergarten
- D When I was in first, second, or third grade
- E When I was in fourth grade

3. When did you first use a **tablet**?

- A Never until this assessment
- B Before I was in kindergarten
- C When I was in kindergarten
- D When I was in first, second, or third grade
- E When I was in fourth grade

4. When did you first use a **smartphone**?
- Ⓐ I have never used one.
 - Ⓑ Before I was in kindergarten
 - Ⓒ When I was in kindergarten
 - Ⓓ When I was in first, second, or third grade
 - Ⓔ When I was in fourth grade

5. On a **weekday**, about **how many hours** do you use a **laptop or desktop computer** for doing schoolwork, including homework?
- Ⓐ None
 - Ⓑ Less than an hour
 - Ⓒ 1 to 2 hours
 - Ⓓ 2 to 3 hours
 - Ⓔ 3 to 4 hours
 - Ⓕ More than 4 hours

6. On a **weekday**, about **how many hours** do you use a **tablet** for doing schoolwork, including homework?
- Ⓐ None
 - Ⓑ Less than an hour
 - Ⓒ 1 to 2 hours
 - Ⓓ 2 to 3 hours
 - Ⓔ 3 to 4 hours
 - Ⓕ More than 4 hours

7. Were you taught any of the following **at school**? Select **one** answer choice on each row.

	Yes	No	
a. How to type on a computer keyboard using the correct fingers	<input type="radio"/> A	<input type="radio"/> B	VH270150
b. How to write sentences and paragraphs using a computer	<input type="radio"/> A	<input type="radio"/> B	VH270151
c. How to edit text using a computer	<input type="radio"/> A	<input type="radio"/> B	VH270164
d. How to search for information on the Internet	<input type="radio"/> A	<input type="radio"/> B	VH270152
e. How to use a tablet	<input type="radio"/> A	<input type="radio"/> B	VH270156
f. How to look up the meaning of a word using a computer	<input type="radio"/> A	<input type="radio"/> B	VH270157

8. Which of the following are true about the ways in which you and your teachers use computers **at school**? Select **one** answer choice on each row.

	Yes	No	
a. In most of my classes there are laptop or desktop computers that I can use for schoolwork.	<input type="radio"/> A	<input type="radio"/> B	VH270166
b. In most of my classes there are tablets that I can use for schoolwork.	<input type="radio"/> A	<input type="radio"/> B	VH270167
c. There is Wi-Fi or some other Internet connection that I can use for schoolwork.	<input type="radio"/> A	<input type="radio"/> B	VH270170
d. Most of my teachers use computers when teaching my classes.	<input type="radio"/> A	<input type="radio"/> B	VH270169
e. Most of my teachers require us to use computers in the classroom.	<input type="radio"/> A	<input type="radio"/> B	VH270168

9. Has your school assigned you a **laptop or desktop computer** that only you can use?

- A No
- B Yes, but I cannot take it home with me.
- C Yes, and I can take it home with me (laptop only).

10. Has your school assigned you a **tablet** that only you can use?

- Ⓐ No
- Ⓑ Yes, but I cannot take it home with me.
- Ⓒ Yes, and I can take it home with me.

11. **This school year**, how often have you used a **laptop or desktop computer** to do each of the following? Select **one** answer choice on each row.

	Never	A few times	Once every few weeks	About once a week	More than once a week	
a. Write a short paper (less than a page) for school	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH270172
b. Write a paper for school that was longer than a page	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH270173
c. Search the Internet for a school project	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH270174
d. Practice things in mathematics that you were having trouble learning	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH270181
e. Practice things in reading that you were having trouble learning	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH270177
f. Take a test	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH270175

12. This school year, how often have you used a **tablet** to do each of the following? Select **one** answer choice on each row.

	Never	A few times	Once every few weeks	About once a week	More than once a week	
a. Write a short paper (less than a page) for school	(A)	(B)	(C)	(D)	(E)	VH270183
b. Write a paper for school that was longer than a page	(A)	(B)	(C)	(D)	(E)	VH270188
c. Search the Internet for a school project	(A)	(B)	(C)	(D)	(E)	VH270184
d. Practice things in mathematics that you were having trouble learning	(A)	(B)	(C)	(D)	(E)	VH270185
e. Practice things in reading that you were having trouble learning	(A)	(B)	(C)	(D)	(E)	VH270186
f. Take a test	(A)	(B)	(C)	(D)	(E)	VH270192

13. Which best describes the way you type on a computer keyboard?

- (A) I don't know how to type using a computer keyboard.
- (B) I can type with one or two fingers, but I have to search for where the letter keys are.
- (C) I can type with one or two fingers, and I know where most of the letter keys are.
- (D) I can type with all ten fingers when I look at the keyboard.
- (E) I can type with all ten fingers without looking at the keyboard.

14. Would you rather take a test at school using paper and pencil or using a computer?

- (A) Paper and pencil
- (B) Computer

15. Do you think 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.	I probably can.	I definitely can.	
a. Write sentences and paragraphs using a computer	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH270229
b. Edit text using a computer	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH270218
c. Use a touchscreen on a computer, tablet, or smartphone	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH270230
d. Look up the meaning of a word using a computer	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH270225
e. Draw a picture using a computer	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH270226

16. How familiar are you with each of the following? Select **one** answer choice on each row.

	Never heard of it	Heard of it once or twice	Heard of it often	Know it well, understand the concept	
a. Wi-Fi	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH270196
b. Firewall	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH270197
c. Neuro-digital computing	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH270199
d. Instant messaging	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH270200
e. Cut and paste	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH270203
f. Pyramidal browser	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH270204
g. Spreadsheet	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH270206
h. Limbic wire	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH270207
i. Spinalbyte	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH270208
j. Server	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH270210
k. Callosum board	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH270214

Appendix K-1ay: Summary of Changes Operational Grade 8 CAFS

2019 Operational Grade 8 Computer and Familiarity Study (CAFS) Student

Previous item	2019 item	D/A/ R/NC+	Rationale																																																								
<p>1. At home, do you have any of the following? Select one answer choice on each row.</p> <p style="text-align: right; font-size: small;">V1270138</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 10%;">Yes</th> <th style="width: 10%;">No</th> <th style="width: 20%;"></th> </tr> </thead> <tbody> <tr> <td>a. A laptop or desktop computer that is only for your use</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">V1270141</td> </tr> <tr> <td>b. A laptop or desktop computer that is shared between you and others</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">V1270142</td> </tr> <tr> <td>c. A tablet that is only for your use</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">V1270139</td> </tr> <tr> <td>d. A tablet that is shared between you and others</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">V1270140</td> </tr> <tr> <td>e. Wi-Fi or some other Internet connection you can use</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">V1270143</td> </tr> <tr> <td>f. A smartphone that is only for your use</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">V1270144</td> </tr> </tbody> </table> <p>(2017 Grade 8)</p>		Yes	No		a. A laptop or desktop computer that is only for your use	<input type="radio"/>	<input type="radio"/>	V1270141	b. A laptop or desktop computer that is shared between you and others	<input type="radio"/>	<input type="radio"/>	V1270142	c. A tablet that is only for your use	<input type="radio"/>	<input type="radio"/>	V1270139	d. A tablet that is shared between you and others	<input type="radio"/>	<input type="radio"/>	V1270140	e. Wi-Fi or some other Internet connection you can use	<input type="radio"/>	<input type="radio"/>	V1270143	f. A smartphone that is only for your use	<input type="radio"/>	<input type="radio"/>	V1270144	<p>1. At home, do you have any of the following? Select one answer choice on each row.</p> <p style="text-align: right; font-size: small;">V1270138</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 10%;">Yes</th> <th style="width: 10%;">No</th> <th style="width: 20%;"></th> </tr> </thead> <tbody> <tr> <td>a. A laptop or desktop computer that is only for your use</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">V1270141</td> </tr> <tr> <td>b. A laptop or desktop computer that is shared between you and others</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">V1270142</td> </tr> <tr> <td>c. A tablet that is only for your use</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">V1270139</td> </tr> <tr> <td>d. A tablet that is shared between you and others</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">V1270140</td> </tr> <tr> <td>e. Wi-Fi or some other Internet connection you can use</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">V1270143</td> </tr> <tr> <td>f. A smartphone that is only for your use</td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td style="font-size: x-small;">V1270144</td> </tr> </tbody> </table>		Yes	No		a. A laptop or desktop computer that is only for your use	<input type="radio"/>	<input type="radio"/>	V1270141	b. A laptop or desktop computer that is shared between you and others	<input type="radio"/>	<input type="radio"/>	V1270142	c. A tablet that is only for your use	<input type="radio"/>	<input type="radio"/>	V1270139	d. A tablet that is shared between you and others	<input type="radio"/>	<input type="radio"/>	V1270140	e. Wi-Fi or some other Internet connection you can use	<input type="radio"/>	<input type="radio"/>	V1270143	f. A smartphone that is only for your use	<input type="radio"/>	<input type="radio"/>	V1270144	NC	N/A
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<p>2. When did you first use a laptop or desktop computer?</p> <p style="text-align: right; font-size: small;">V1270145</p> <ul style="list-style-type: none"> <input type="radio"/> I have never used one. <input type="radio"/> Before I was in kindergarten <input type="radio"/> When I was in kindergarten <input type="radio"/> When I was in first, second, or third grade <input type="radio"/> When I was in fourth or fifth grade <input type="radio"/> When I was in sixth, seventh, or eighth grade <p>(2017 Grade 8)</p>	<p>2. When did you first use a laptop or desktop computer?</p> <p style="text-align: right; font-size: small;">V1270145</p> <ul style="list-style-type: none"> <input type="radio"/> I have never used one. <input type="radio"/> Before I was in kindergarten <input type="radio"/> When I was in kindergarten <input type="radio"/> When I was in first, second, or third grade <input type="radio"/> When I was in fourth or fifth grade <input type="radio"/> When I was in sixth, seventh, or eighth grade 	NC	N/A																																																								
<p>3. When did you first use a tablet?</p> <p style="text-align: right; font-size: small;">V1270600</p> <ul style="list-style-type: none"> <input type="radio"/> Never until this assessment <input type="radio"/> Before I was in kindergarten <input type="radio"/> When I was in kindergarten <input type="radio"/> When I was in first, second, or third grade <input type="radio"/> When I was in fourth or fifth grade <input type="radio"/> When I was in sixth, seventh, or eighth grade <p>(2017 Grade 8)</p>	<p>3. When did you first use a tablet?</p> <p style="text-align: right; font-size: small;">V1270600</p> <ul style="list-style-type: none"> <input type="radio"/> Never until this assessment <input type="radio"/> Before I was in kindergarten <input type="radio"/> When I was in kindergarten <input type="radio"/> When I was in first, second, or third grade <input type="radio"/> When I was in fourth or fifth grade <input type="radio"/> When I was in sixth, seventh, or eighth grade 	NC	N/A																																																								
<p>4. When did you first use a smartphone?</p> <p style="text-align: right; font-size: small;">V1270146</p> <ul style="list-style-type: none"> <input type="radio"/> I have never used one. <input type="radio"/> Before I was in kindergarten <input type="radio"/> When I was in kindergarten <input type="radio"/> When I was in first, second, or third grade <input type="radio"/> When I was in fourth or fifth grade <input type="radio"/> When I was in sixth, seventh, or eighth grade <p>(2017 Grade 8)</p>	<p>4. When did you first use a smartphone?</p> <p style="text-align: right; font-size: small;">V1270146</p> <ul style="list-style-type: none"> <input type="radio"/> I have never used one. <input type="radio"/> Before I was in kindergarten <input type="radio"/> When I was in kindergarten <input type="radio"/> When I was in first, second, or third grade <input type="radio"/> When I was in fourth or fifth grade <input type="radio"/> When I was in sixth, seventh, or eighth grade 	NC	N/A																																																								

2019 Operational Grade 8 Computer and Familiarity Study (CAFS) Student

Previous item	2019 item	D/A/ R/NC+	Rationale																																																																																																								
<p style="text-align: right; font-size: small;">VIE270147</p> <p>5. On a weekday, about how many hours do you use a laptop or desktop computer for doing schoolwork, including homework?</p> <ul style="list-style-type: none"> <input type="radio"/> None <input type="radio"/> Less than an hour <input type="radio"/> 1 to 2 hours <input type="radio"/> 2 to 3 hours <input type="radio"/> 3 to 4 hours <input type="radio"/> More than 4 hours <p>(2017 Grade 8)</p>	<p style="text-align: right; font-size: small;">VIE270147</p> <p>5. On a weekday, about how many hours do you use a laptop or desktop computer for doing schoolwork, including homework?</p> <ul style="list-style-type: none"> <input type="radio"/> None <input type="radio"/> Less than an hour <input type="radio"/> 1 to 2 hours <input type="radio"/> 2 to 3 hours <input type="radio"/> 3 to 4 hours <input type="radio"/> More than 4 hours 	NC	N/A																																																																																																								
<p style="text-align: right; font-size: small;">VIE270148</p> <p>6. On a weekday, about how many hours do you use a tablet for doing schoolwork, including homework?</p> <ul style="list-style-type: none"> <input type="radio"/> None <input type="radio"/> Less than an hour <input type="radio"/> 1 to 2 hours <input type="radio"/> 2 to 3 hours <input type="radio"/> 3 to 4 hours <input type="radio"/> More than 4 hours <p>(2017 Grade 8)</p>	<p style="text-align: right; font-size: small;">VIE270148</p> <p>6. On a weekday, about how many hours do you use a tablet for doing schoolwork, including homework?</p> <ul style="list-style-type: none"> <input type="radio"/> None <input type="radio"/> Less than an hour <input type="radio"/> 1 to 2 hours <input type="radio"/> 2 to 3 hours <input type="radio"/> 3 to 4 hours <input type="radio"/> More than 4 hours 	NC	N/A																																																																																																								
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2019 Operational Grade 8 Computer and Familiarity Study (CAFS) Student

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b. Write a paper for school that was longer than a page	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1270184																																																																																																																																																							
c. Search the Internet for a school project	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1270184																																																																																																																																																							
d. Practice things in mathematics that you were having trouble learning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1270185																																																																																																																																																							
e. Practice things in reading that you were having trouble learning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1270186																																																																																																																																																							
f. Take a test	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1270192																																																																																																																																																							
g. Create a map	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1270189																																																																																																																																																							
h. Work on a website or blog that you maintain	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1270190																																																																																																																																																							
i. Create a multimedia presentation <i>on your own</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1270191																																																																																																																																																							
j. Work collaboratively <i>with a team of students</i> to create a multimedia presentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1270187																																																																																																																																																							
<p>13. Which best describes the way you type on a computer keyboard? V1270193</p> <ul style="list-style-type: none"> <input type="radio"/> I don't know how to type using a computer keyboard. <input type="radio"/> I can type with one or two fingers, but I have to search for where the letter keys are. <input type="radio"/> I can type with one or two fingers, and I know where most of the letter keys are. <input type="radio"/> I can type with all ten fingers when I look at the keyboard. <input type="radio"/> I can type with all ten fingers without looking at the keyboard. <p>(2017 Grade 8)</p>	<p>13. Which best describes the way you type on a computer keyboard? V1270193</p> <ul style="list-style-type: none"> <input type="radio"/> I don't know how to type using a computer keyboard. <input type="radio"/> I can type with one or two fingers, but I have to search for where the letter keys are. <input type="radio"/> I can type with one or two fingers, and I know where most of the letter keys are. <input type="radio"/> I can type with all ten fingers when I look at the keyboard. <input type="radio"/> I can type with all ten fingers without looking at the keyboard. 	NC	N/A																																																																																																																																																										
<p>14. Would you rather take a test at school using paper and pencil or using a computer? V1270192</p> <ul style="list-style-type: none"> <input type="radio"/> Paper and pencil <input type="radio"/> Computer <p>(2017 Grade 8)</p>	<p>14. Would you rather take a test at school using paper and pencil or using a computer? V1270192</p> <ul style="list-style-type: none"> <input type="radio"/> Paper and pencil <input type="radio"/> Computer 	NC	N/A																																																																																																																																																										

2019 Operational Grade 8 Computer and Familiarity Study (CAFS) Student

Previous item	2019 item	D/A/ R/NC+	Rationale																																																																																																																																																																																																																								
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p. Troubleshoot a problem with a computer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH270232																																																																																																																																																																																																																						
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	I definitely can't.	I probably can't.	I probably can.	I definitely can.																																																																																																																																																																																																																							
a. Write sentences and paragraphs using a computer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH270229																																																																																																																																																																																																																						
b. Edit text using a computer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH270218																																																																																																																																																																																																																						
c. Use a touchscreen on a computer, tablet, or smartphone	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH270230																																																																																																																																																																																																																						
d. Look up the meaning of a word using a computer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH270225																																																																																																																																																																																																																						
e. Draw a picture using a computer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH270226																																																																																																																																																																																																																						
f. View or download digital media	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH270216																																																																																																																																																																																																																						
g. Create a presentation using a computer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH270228																																																																																																																																																																																																																						
h. Create a spreadsheet using a computer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH270231																																																																																																																																																																																																																						
i. Install new software or apps	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH270219																																																																																																																																																																																																																						
j. Participate in online discussions, forums, social networking sites, or virtual communities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH270220																																																																																																																																																																																																																						
k. Maintain a website or blog	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH270221																																																																																																																																																																																																																						
l. Search for information on the Internet	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH270222																																																																																																																																																																																																																						
m. Run simulations using a computer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH270223																																																																																																																																																																																																																						
n. Create a graph or chart using a computer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH270224																																																																																																																																																																																																																						
o. Write a computer program or app	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH270227																																																																																																																																																																																																																						
p. Troubleshoot a problem with a computer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH270232																																																																																																																																																																																																																						
q. Figure out how to use new functions of a digital device that I am not yet familiar with	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH270217																																																																																																																																																																																																																						

2019 Operational Grade 8 Computer and Familiarity Study (CAFS) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right; font-size: small;">V1270231</p> <p>16. On a scale from 0 to 10, where 0 is not at all familiar and 10 is very familiar, how familiar with using computers and other digital devices are <u>you</u>?</p> <p>Ⓐ 0 Ⓑ 1 Ⓒ 2 Ⓓ 3 Ⓔ 4 Ⓕ 5 Ⓖ 6 Ⓗ 7 Ⓘ 8 Ⓚ 9 Ⓛ 10</p> <p>(2017 Grade 8)</p>	<p style="text-align: right; font-size: small;">V1270231</p> <p>16. On a scale from 0 to 10, where 0 is not at all familiar and 10 is very familiar, how familiar with using computers and other digital devices are <u>you</u>?</p> <p>Ⓐ 0 Ⓑ 1 Ⓒ 2 Ⓓ 3 Ⓔ 4 Ⓕ 5 Ⓖ 6 Ⓗ 7 Ⓘ 8 Ⓚ 9 Ⓛ 10</p>	NC	N/A
<p style="text-align: right; font-size: small;">V1270236</p> <p>17. Please read the descriptions of the following four eighth-grade students. After you read each description, you will be asked to answer a question about each student based on the information provided.</p> <p>Linda often uses apps to talk to her friends or to play games. She does some of her homework on her laptop and knows how to write and create tables using a computer. Linda cannot type with 10 fingers but is pretty fast with two fingers and mostly finds the right keys.</p> <p>On a scale from 0 to 10, where 0 is not at all familiar and 10 is very familiar, how familiar with using computers and other digital devices do you think <u>Linda</u> is?</p> <p>Ⓐ 0 Ⓑ 1 Ⓒ 2 Ⓓ 3 Ⓔ 4 Ⓕ 5 Ⓖ 6 Ⓗ 7 Ⓘ 8 Ⓚ 9 Ⓛ 10</p> <p>(2017 Grade 8)</p>	<p style="text-align: right; font-size: small;">V1270236</p> <p>17. Please read the descriptions of the following four eighth-grade students. After you read each description, you will be asked to answer a question about each student based on the information provided.</p> <p>Linda often uses apps to talk to her friends or to play games. She does some of her homework on her laptop and knows how to write and create tables using a computer. Linda cannot type with 10 fingers but is pretty fast with two fingers and mostly finds the right keys.</p> <p>On a scale from 0 to 10, where 0 is not at all familiar and 10 is very familiar, how familiar with using computers and other digital devices do you think <u>Linda</u> is?</p> <p>Ⓐ 0 Ⓑ 1 Ⓒ 2 Ⓓ 3 Ⓔ 4 Ⓕ 5 Ⓖ 6 Ⓗ 7 Ⓘ 8 Ⓚ 9 Ⓛ 10</p>	NC	N/A

2019 Operational Grade 8 Computer and Familiarity Study (CAFS) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right;"><small>V1270237</small></p> <p>18. Tom often uses apps to talk to his friends or to play games. He does most of his homework on a computer and knows how to write and edit papers on a computer and how to create complex tables or charts. He also created a few presentations using a computer. Tom can type pretty accurately using ten fingers when looking at the computer keyboard.</p> <p>On a scale from 0 to 10, where 0 is not at all familiar and 10 is very familiar, how familiar with using computers and other digital devices do you think <u>Tom</u> is?</p> <p><input type="radio"/> 0</p> <p><input type="radio"/> 1</p> <p><input type="radio"/> 2</p> <p><input type="radio"/> 3</p> <p><input type="radio"/> 4</p> <p><input type="radio"/> 5</p> <p><input type="radio"/> 6</p> <p><input type="radio"/> 7</p> <p><input type="radio"/> 8</p> <p><input type="radio"/> 9</p> <p><input type="radio"/> 10</p> <p>(2017 Grade 8)</p>	<p style="text-align: right;"><small>V1270237</small></p> <p>18. Tom often uses apps to talk to his friends or to play games. He does most of his homework on a computer and knows how to write and edit papers on a computer and how to create complex tables or charts. He also created a few presentations using a computer. Tom can type pretty accurately using ten fingers when looking at the computer keyboard.</p> <p>On a scale from 0 to 10, where 0 is not at all familiar and 10 is very familiar, how familiar with using computers and other digital devices do you think <u>Tom</u> is?</p> <p><input type="radio"/> 0</p> <p><input type="radio"/> 1</p> <p><input type="radio"/> 2</p> <p><input type="radio"/> 3</p> <p><input type="radio"/> 4</p> <p><input type="radio"/> 5</p> <p><input type="radio"/> 6</p> <p><input type="radio"/> 7</p> <p><input type="radio"/> 8</p> <p><input type="radio"/> 9</p> <p><input type="radio"/> 10</p>	NC	N/A
<p style="text-align: right;"><small>V1270238</small></p> <p>19. Susan often uses apps on a smartphone or tablet and does most of her homework on a laptop. She is good at writing and editing papers on her computer and has experience with creating complex tables and charts. Susan can type fast and accurately with 10 fingers without looking at the computer keyboard. She also knows a couple of programming languages. This school year, she built her first app.</p> <p>On a scale from 0 to 10, where 0 is not at all familiar and 10 is very familiar, how familiar with using computers and other digital devices do you think <u>Susan</u> is?</p> <p><input type="radio"/> 0</p> <p><input type="radio"/> 1</p> <p><input type="radio"/> 2</p> <p><input type="radio"/> 3</p> <p><input type="radio"/> 4</p> <p><input type="radio"/> 5</p> <p><input type="radio"/> 6</p> <p><input type="radio"/> 7</p> <p><input type="radio"/> 8</p> <p><input type="radio"/> 9</p> <p><input type="radio"/> 10</p> <p>(2017 Grade 8)</p>	<p style="text-align: right;"><small>V1270238</small></p> <p>19. Susan often uses apps on a smartphone or tablet and does most of her homework on a laptop. She is good at writing and editing papers on her computer and has experience with creating complex tables and charts. Susan can type fast and accurately with 10 fingers without looking at the computer keyboard. She also knows a couple of programming languages. This school year, she built her first app.</p> <p>On a scale from 0 to 10, where 0 is not at all familiar and 10 is very familiar, how familiar with using computers and other digital devices do you think <u>Susan</u> is?</p> <p><input type="radio"/> 0</p> <p><input type="radio"/> 1</p> <p><input type="radio"/> 2</p> <p><input type="radio"/> 3</p> <p><input type="radio"/> 4</p> <p><input type="radio"/> 5</p> <p><input type="radio"/> 6</p> <p><input type="radio"/> 7</p> <p><input type="radio"/> 8</p> <p><input type="radio"/> 9</p> <p><input type="radio"/> 10</p>	NC	N/A

2019 Operational Grade 8 Computer and Familiarity Study (CAFS) Student

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<p style="text-align: right; font-size: small;">V1270239</p> <p>20. Kevin sometimes plays games on his smartphone or a computer, but he usually does not use a computer for his homework. He used a computer a couple of times to write a paper but never used a computer to create tables, charts, or presentations. Kevin can type with one or two fingers but has to search to find the correct keys on the computer keyboard.</p> <p>On a scale from 0 to 10, where 0 is not at all familiar and 10 is very familiar, how familiar with using computers and other digital devices do you think <u>Kevin</u> is?</p> <p><input type="radio"/> 0</p> <p><input type="radio"/> 1</p> <p><input type="radio"/> 2</p> <p><input type="radio"/> 3</p> <p><input type="radio"/> 4</p> <p><input type="radio"/> 5</p> <p><input type="radio"/> 6</p> <p><input type="radio"/> 7</p> <p><input type="radio"/> 8</p> <p><input type="radio"/> 9</p> <p><input type="radio"/> 10</p> <p>(2017 Grade 8)</p>	<p style="text-align: right; font-size: small;">V1270239</p> <p>20. Kevin sometimes plays games on his smartphone or a computer, but he usually does not use a computer for his homework. He used a computer a couple of times to write a paper but never used a computer to create tables, charts, or presentations. Kevin can type with one or two fingers but has to search to find the correct keys on the computer keyboard.</p> <p>On a scale from 0 to 10, where 0 is not at all familiar and 10 is very familiar, how familiar with using computers and other digital devices do you think <u>Kevin</u> is?</p> <p><input type="radio"/> 0</p> <p><input type="radio"/> 1</p> <p><input type="radio"/> 2</p> <p><input type="radio"/> 3</p> <p><input type="radio"/> 4</p> <p><input type="radio"/> 5</p> <p><input type="radio"/> 6</p> <p><input type="radio"/> 7</p> <p><input type="radio"/> 8</p> <p><input type="radio"/> 9</p> <p><input type="radio"/> 10</p>	NC	N/A																																																																																																																																																																																																												
<p style="text-align: right; font-size: small;">V1270199</p> <p>21. How familiar are you with each of the following? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Never heard of it</th> <th>Heard of it once or twice</th> <th>Heard of it often</th> <th>Know it well, understand the concept</th> <th></th> </tr> </thead> <tbody> <tr><td>a. E-reader</td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td>V1270195</td></tr> <tr><td>b. Wi-Fi</td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td>V1270196</td></tr> <tr><td>c. Firewall</td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td>V1270197</td></tr> <tr><td>d. Hyperlink</td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td>V1270198</td></tr> <tr><td>e. Neuro-digital computing</td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td>V1270199</td></tr> <tr><td>f. Instant messaging</td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td>V1270200</td></tr> <tr><td>g. CPU</td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td>V1270201</td></tr> <tr><td>h. Cut and paste</td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td>V1270202</td></tr> <tr><td>i. Pyramidal browser</td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td>V1270203</td></tr> <tr><td>j. Spreadsheet</td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td>V1270204</td></tr> <tr><td>k. Limbic wire</td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td>V1270205</td></tr> <tr><td>l. Spinalbyte</td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td>V1270206</td></tr> <tr><td>m. Cloud computing</td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td>V1270207</td></tr> <tr><td>n. Server</td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td>V1270208</td></tr> <tr><td>o. Compiler</td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td>V1270209</td></tr> <tr><td>p. Callosus board</td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td><input type="radio"/></td><td>V1270210</td></tr> </tbody> </table> <p>(2017 Grade 8)</p>		Never heard of it	Heard of it once or twice	Heard of it often	Know it well, understand the concept		a. E-reader	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1270195	b. Wi-Fi	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1270196	c. Firewall	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1270197	d. Hyperlink	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1270198	e. Neuro-digital computing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1270199	f. Instant messaging	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1270200	g. CPU	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1270201	h. Cut and paste	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1270202	i. Pyramidal browser	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1270203	j. Spreadsheet	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1270204	k. Limbic wire	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	V1270205	l. 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Appendix K-1az: Operational Grade 8 CAFS

1. **At home**, do you have any of the following? Select **one** answer choice on each row.

	Yes	No	
a. A laptop or desktop computer that is only for your use	<input type="radio"/> A	<input type="radio"/> B	VH270141
b. A laptop or desktop computer that is shared between you and others	<input type="radio"/> A	<input type="radio"/> B	VH270142
c. A tablet that is only for your use	<input type="radio"/> A	<input type="radio"/> B	VH270139
d. A tablet that is shared between you and others	<input type="radio"/> A	<input type="radio"/> B	VH270140
e. Wi-Fi or some other Internet connection you can use	<input type="radio"/> A	<input type="radio"/> B	VH270143
f. A smartphone that is only for your use	<input type="radio"/> A	<input type="radio"/> B	VH270144

2. When did you first use a **laptop or desktop computer**?

- A I have never used one.
- B Before I was in kindergarten
- C When I was in kindergarten
- D When I was in first, second, or third grade
- E When I was in fourth or fifth grade
- F When I was in sixth, seventh, or eighth grade

3. When did you first use a **tablet**?

- A Never until this assessment
- B Before I was in kindergarten
- C When I was in kindergarten
- D When I was in first, second, or third grade
- E When I was in fourth or fifth grade
- F When I was in sixth, seventh, or eighth grade

4. When did you first use a **smartphone**?
- Ⓐ I have never used one.
 - Ⓑ Before I was in kindergarten
 - Ⓒ When I was in kindergarten
 - Ⓓ When I was in first, second, or third grade
 - Ⓔ When I was in fourth or fifth grade
 - Ⓕ When I was in sixth, seventh, or eighth grade

5. **On a weekday**, about **how many hours** do you use a **laptop or desktop computer** for doing schoolwork, including homework?
- Ⓐ None
 - Ⓑ Less than an hour
 - Ⓒ 1 to 2 hours
 - Ⓓ 2 to 3 hours
 - Ⓔ 3 to 4 hours
 - Ⓕ More than 4 hours

6. **On a weekday**, about **how many hours** do you use a **tablet** for doing schoolwork, including homework?
- Ⓐ None
 - Ⓑ Less than an hour
 - Ⓒ 1 to 2 hours
 - Ⓓ 2 to 3 hours
 - Ⓔ 3 to 4 hours
 - Ⓕ More than 4 hours

7. Were you taught any of the following **at school**? Select **one** answer choice on each row.

	Yes	No	
a. How to type on a computer keyboard using the correct fingers	<input type="radio"/> A	<input type="radio"/> B	VH270150
b. How to write sentences and paragraphs using a computer	<input type="radio"/> A	<input type="radio"/> B	VH270151
c. How to edit text using a computer	<input type="radio"/> A	<input type="radio"/> B	VH270164
d. How to search for information on the Internet	<input type="radio"/> A	<input type="radio"/> B	VH270152
e. How to use a tablet	<input type="radio"/> A	<input type="radio"/> B	VH270156
f. How to look up the meaning of a word using a computer	<input type="radio"/> A	<input type="radio"/> B	VH270157
g. How to create a spreadsheet using a computer	<input type="radio"/> A	<input type="radio"/> B	VH270154
h. How to create a presentation using a computer	<input type="radio"/> A	<input type="radio"/> B	VH270155
i. How to run simulations using a computer	<input type="radio"/> A	<input type="radio"/> B	VH270159
j. How to write a computer program or app	<input type="radio"/> A	<input type="radio"/> B	VH270160
k. How to create a graph or chart using a computer	<input type="radio"/> A	<input type="radio"/> B	VH270161
l. How to troubleshoot problems with a computer	<input type="radio"/> A	<input type="radio"/> B	VH270158

8. Which of the following are true about the ways in which you and your teachers use computers **at school**? Select **one** answer choice on each row.

	Yes	No	
a. In most of my classes there are laptop or desktop computers that I can use for schoolwork.	<input type="radio"/> A	<input type="radio"/> B	VH270166
b. In most of my classes there are tablets that I can use for schoolwork.	<input type="radio"/> A	<input type="radio"/> B	VH270167
c. There is Wi-Fi or some other Internet connection that I can use for schoolwork.	<input type="radio"/> A	<input type="radio"/> B	VH270170
d. Most of my teachers use computers when teaching my classes.	<input type="radio"/> A	<input type="radio"/> B	VH270169
e. Most of my teachers require us to use computers in the classroom.	<input type="radio"/> A	<input type="radio"/> B	VH270168

9. Has your school assigned you a **laptop or desktop computer** that only you can use?

- A No
 B Yes, but I cannot take it home with me.
 C Yes, and I can take it home with me (laptop only).

10. Has your school assigned you a **tablet** that only you can use?

- A No
 B Yes, but I cannot take it home with me.
 C Yes, and I can take it home with me.

11. This school year, how often have you used a **laptop or desktop computer** to do each of the following? Select **one** answer choice on each row.

	Never	A few times	Once every few weeks	About once a week	More than once a week	
a. Write a short paper (less than a page) for school	(A)	(B)	(C)	(D)	(E)	VH270172
b. Write a paper for school that was longer than a page	(A)	(B)	(C)	(D)	(E)	VH270173
c. Search the Internet for a school project	(A)	(B)	(C)	(D)	(E)	VH270174
d. Practice things in mathematics that you were having trouble learning	(A)	(B)	(C)	(D)	(E)	VH270181
e. Practice things in reading that you were having trouble learning	(A)	(B)	(C)	(D)	(E)	VH270177
f. Take a test	(A)	(B)	(C)	(D)	(E)	VH270175
g. Create a map	(A)	(B)	(C)	(D)	(E)	VH270178
h. Work on a website or blog that you maintain	(A)	(B)	(C)	(D)	(E)	VH270179
i. Create a multimedia presentation <i>on your own</i>	(A)	(B)	(C)	(D)	(E)	VH270180
j. Work collaboratively <i>with a team of students</i> to create a multimedia presentation	(A)	(B)	(C)	(D)	(E)	VH270176

12. This school year, how often have you used a **tablet** to do each of the following? Select **one** answer choice on each row.

	Never	A few times	Once every few weeks	About once a week	More than once a week	
a. Write a short paper (less than a page) for school	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH270183
b. Write a paper for school that was longer than a page	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH270188
c. Search the Internet for a school project	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH270184
d. Practice things in mathematics that you were having trouble learning	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH270185
e. Practice things in reading that you were having trouble learning	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH270186
f. Take a test	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH270192
g. Create a map	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH270189
h. Work on a website or blog that you maintain	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH270190
i. Create a multimedia presentation <i>on your own</i>	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH270191
j. Work collaboratively <i>with a team of students</i> to create a multimedia presentation	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH270187

13. Which best describes the way you type on a computer keyboard?

- A I don't know how to type using a computer keyboard.
- B I can type with one or two fingers, but I have to search for where the letter keys are.
- C I can type with one or two fingers, and I know where most of the letter keys are.
- D I can type with all ten fingers when I look at the keyboard.
- E I can type with all ten fingers without looking at the keyboard.

14. Would you rather take a test at school using paper and pencil or using a computer?

- Ⓐ Paper and pencil
- Ⓑ Computer

15. Do you think 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.	I probably can.	I definitely can.	
a. Write sentences and paragraphs using a computer	(A)	(B)	(C)	(D)	VH270229
b. Edit text using a computer	(A)	(B)	(C)	(D)	VH270218
c. Use a touchscreen on a computer, tablet, or smartphone	(A)	(B)	(C)	(D)	VH270230
d. Look up the meaning of a word using a computer	(A)	(B)	(C)	(D)	VH270225
e. Draw a picture using a computer	(A)	(B)	(C)	(D)	VH270226
f. View or download digital media	(A)	(B)	(C)	(D)	VH270216
g. Create a presentation using a computer	(A)	(B)	(C)	(D)	VH270228
h. Create a spreadsheet using a computer	(A)	(B)	(C)	(D)	VH270231
i. Install new software or apps	(A)	(B)	(C)	(D)	VH270219
j. Participate in online discussions, forums, social networking sites, or virtual communities	(A)	(B)	(C)	(D)	VH270220
k. Maintain a website or blog	(A)	(B)	(C)	(D)	VH270221
l. Search for information on the Internet	(A)	(B)	(C)	(D)	VH270222
m. Run simulations using a computer	(A)	(B)	(C)	(D)	VH270223
n. Create a graph or chart using a computer	(A)	(B)	(C)	(D)	VH270224
o. Write a computer program or app	(A)	(B)	(C)	(D)	VH270227
p. Troubleshoot a problem with a computer	(A)	(B)	(C)	(D)	VH270232
q. Figure out how to use new functions of a digital device that I am not yet familiar with	(A)	(B)	(C)	(D)	VH270217

16. On a scale from 0 to 10, where 0 is not at all familiar and 10 is very familiar, **how familiar with using computers and other digital devices are you?**

- Ⓐ 0
- Ⓑ 1
- Ⓒ 2
- Ⓓ 3
- Ⓔ 4
- Ⓕ 5
- Ⓖ 6
- Ⓗ 7
- Ⓘ 8
- Ⓝ 9
- Ⓚ 10

17. Please read the descriptions of the following four eighth-grade students. After you read each description, you will be asked to answer a question about each student based on the information provided.

Linda often uses apps to talk to her friends or to play games. She does some of her homework on her laptop and knows how to write and create tables using a computer. Linda cannot type with 10 fingers but is pretty fast with two fingers and mostly finds the right keys.

On a scale from 0 to 10, where 0 is not at all familiar and 10 is very familiar, **how familiar with using computers and other digital devices do you think Linda is?**

- Ⓐ 0
- Ⓑ 1
- Ⓒ 2
- Ⓓ 3
- Ⓔ 4
- Ⓕ 5
- Ⓖ 6
- Ⓗ 7
- Ⓘ 8
- Ⓙ 9
- Ⓚ 10

18. **Tom** often uses apps to talk to his friends or to play games. He does most of his homework on a computer and knows how to write and edit papers on a computer and how to create complex tables or charts. He also created a few presentations using a computer. Tom can type pretty accurately using ten fingers when looking at the computer keyboard.

On a scale from 0 to 10, where 0 is not at all familiar and 10 is very familiar, **how familiar with using computers and other digital devices do you think Tom is?**

- Ⓐ 0
- Ⓑ 1
- Ⓒ 2
- Ⓓ 3
- Ⓔ 4
- Ⓕ 5
- Ⓖ 6
- Ⓗ 7
- Ⓘ 8
- Ⓙ 9
- Ⓚ 10

19. **Susan** often uses apps on a smartphone or tablet and does most of her homework on a laptop. She is good at writing and editing papers on her computer and has experience with creating complex tables and charts. Susan can type fast and accurately with 10 fingers without looking at the computer keyboard. She also knows a couple of programming languages. This school year, she built her first app.

On a scale from 0 to 10, where 0 is not at all familiar and 10 is very familiar, **how familiar with using computers and other digital devices do you think Susan is?**

- Ⓐ 0
- Ⓑ 1
- Ⓒ 2
- Ⓓ 3
- Ⓔ 4
- Ⓕ 5
- Ⓖ 6
- Ⓗ 7
- Ⓘ 8
- Ⓝ 9
- Ⓚ 10

20. **Kevin** sometimes plays games on his smartphone or a computer, but he usually does not use a computer for his homework. He used a computer a couple of times to write a paper but never used a computer to create tables, charts, or presentations. Kevin can type with one or two fingers but has to search to find the correct keys on the computer keyboard.

On a scale from 0 to 10, where 0 is not at all familiar and 10 is very familiar, **how familiar with using computers and other digital devices do you think Kevin is?**

- Ⓐ 0
- Ⓑ 1
- Ⓒ 2
- Ⓓ 3
- Ⓔ 4
- Ⓕ 5
- Ⓖ 6
- Ⓗ 7
- Ⓘ 8
- Ⓙ 9
- Ⓚ 10

21. How familiar are you with each of the following? Select **one** answer choice on each row.

	Never heard of it	Heard of it once or twice	Heard of it often	Know it well, understand the concept	
a. E-reader	(A)	(B)	(C)	(D)	VH270195
b. Wi-Fi	(A)	(B)	(C)	(D)	VH270196
c. Firewall	(A)	(B)	(C)	(D)	VH270197
d. Hyperlink	(A)	(B)	(C)	(D)	VH270198
e. Neuro-digital computing	(A)	(B)	(C)	(D)	VH270199
f. Instant messaging	(A)	(B)	(C)	(D)	VH270200
g. CPU	(A)	(B)	(C)	(D)	VH270201
h. Cut and paste	(A)	(B)	(C)	(D)	VH270203
i. Pyramidal browser	(A)	(B)	(C)	(D)	VH270204
j. Spreadsheet	(A)	(B)	(C)	(D)	VH270206
k. Limbic wire	(A)	(B)	(C)	(D)	VH270207
l. Spinalbyte	(A)	(B)	(C)	(D)	VH270208
m. Cloud computing	(A)	(B)	(C)	(D)	VH270209
n. Server	(A)	(B)	(C)	(D)	VH270210
o. Compiler	(A)	(B)	(C)	(D)	VH270212
p. Callosum board	(A)	(B)	(C)	(D)	VH270214

**Appendix K-1ba: Summary of Changes Operational Grade 12
CAFS**

2019 Operational Grade 12 Computer and Familiarity Study (CAFS) Student

Previous item	2019 item	D/A/R/NC+	Rationale																																																								
<p style="text-align: right; font-size: small;">VH155319</p> <p>1. How much do you know about using computers and other digital devices?</p> <p><input type="radio"/> A I hardly know anything at all.</p> <p><input type="radio"/> B I know something.</p> <p><input type="radio"/> C I know quite a bit.</p> <p><input type="radio"/> D I know a lot.</p> <p>(2015 Grade 12)</p>	<p>N/A</p>	<p>D</p>	<p>This item was dropped because it was not correlated with achievement, and was not conceptually central to the study.</p>																																																								
<p>2. At home, do you have any of the following? Fill in one oval on each line.</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;"></th> <th style="width: 10%; text-align: center;">Yes</th> <th style="width: 10%; text-align: center;">No</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>a. A laptop or desktop computer that is only for your use</td> <td style="text-align: center;"><input type="radio"/> A</td> <td style="text-align: center;"><input type="radio"/> B</td> <td style="font-size: small;">VH155283</td> </tr> <tr> <td>b. A laptop or desktop computer that is shared between you and others</td> <td style="text-align: center;"><input type="radio"/> A</td> <td style="text-align: center;"><input type="radio"/> B</td> <td style="font-size: small;">VH155284</td> </tr> <tr> <td>c. A tablet that is only for your use</td> <td style="text-align: center;"><input type="radio"/> A</td> <td style="text-align: center;"><input type="radio"/> B</td> <td style="font-size: small;">VH155286</td> </tr> <tr> <td>d. A tablet that is shared between you and others</td> <td style="text-align: center;"><input type="radio"/> A</td> <td style="text-align: center;"><input type="radio"/> B</td> <td style="font-size: small;">VH155281</td> </tr> <tr> <td>e. Wi-Fi or some other Internet connection you can use</td> <td style="text-align: center;"><input type="radio"/> A</td> <td style="text-align: center;"><input type="radio"/> B</td> <td style="font-size: small;">VH155285</td> </tr> <tr> <td>f. A smartphone that is only for your use</td> <td style="text-align: center;"><input type="radio"/> A</td> <td style="text-align: center;"><input type="radio"/> B</td> <td style="font-size: small;">VH155287</td> </tr> </tbody> </table> <p>(2015 Grade 12)</p>		Yes	No		a. A laptop or desktop computer that is only for your use	<input type="radio"/> A	<input type="radio"/> B	VH155283	b. A laptop or desktop computer that is shared between you and others	<input type="radio"/> A	<input type="radio"/> B	VH155284	c. A tablet that is only for your use	<input type="radio"/> A	<input type="radio"/> B	VH155286	d. A tablet that is shared between you and others	<input type="radio"/> A	<input type="radio"/> B	VH155281	e. Wi-Fi or some other Internet connection you can use	<input type="radio"/> A	<input type="radio"/> B	VH155285	f. A smartphone that is only for your use	<input type="radio"/> A	<input type="radio"/> B	VH155287	<p>1. At home, do you have any of the following? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 10%; text-align: center;">Yes</th> <th style="width: 10%; text-align: center;">No</th> <th style="width: 20%;"></th> </tr> </thead> <tbody> <tr> <td>a. A laptop or desktop computer that is only for your use</td> <td style="text-align: center;"><input type="radio"/> A</td> <td style="text-align: center;"><input type="radio"/> B</td> <td style="font-size: x-small;">V1270141</td> </tr> <tr> <td>b. A laptop or desktop computer that is shared between you and others</td> <td style="text-align: center;"><input type="radio"/> A</td> <td style="text-align: center;"><input type="radio"/> B</td> <td style="font-size: x-small;">V1270142</td> </tr> <tr> <td>c. A tablet that is only for your use</td> <td style="text-align: center;"><input type="radio"/> A</td> <td style="text-align: center;"><input type="radio"/> B</td> <td style="font-size: x-small;">V1270143</td> </tr> <tr> <td>d. A tablet that is shared between you and others</td> <td style="text-align: center;"><input type="radio"/> A</td> <td style="text-align: center;"><input type="radio"/> B</td> <td style="font-size: x-small;">V1270144</td> </tr> <tr> <td>e. Wi-Fi or some other Internet connection you can use</td> <td style="text-align: center;"><input type="radio"/> A</td> <td style="text-align: center;"><input type="radio"/> B</td> <td style="font-size: x-small;">V1270145</td> </tr> <tr> <td>f. A smartphone that is only for your use</td> <td style="text-align: center;"><input type="radio"/> A</td> <td style="text-align: center;"><input type="radio"/> B</td> <td style="font-size: x-small;">V1270146</td> </tr> </tbody> </table>		Yes	No		a. 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2019 Operational Grade 12 Computer and Familiarity Study (CAFS) Student

Previous item	2019 item	D/A/R/NC+	Rationale
<p style="text-align: right; font-size: small;">VH155339</p> <p>3. When did you first use a laptop or desktop computer?</p> <ul style="list-style-type: none"> <input type="radio"/> Ⓐ I have never used one. <input type="radio"/> Ⓑ Before I was in kindergarten <input type="radio"/> Ⓒ When I was in kindergarten <input type="radio"/> Ⓓ When I was in first, second, or third grade <input type="radio"/> Ⓔ When I was in fourth or fifth grade <input type="radio"/> Ⓕ When I was in sixth, seventh, or eighth grade <input type="radio"/> Ⓖ When I was in high school <p>(2015 Grade 12)</p>	<p style="text-align: right; font-size: small;">V127024</p> <p>2. When did you first use a laptop or desktop computer?</p> <ul style="list-style-type: none"> <input type="radio"/> Ⓐ I have never used one. <input type="radio"/> Ⓑ Before I was in kindergarten <input type="radio"/> Ⓒ When I was in kindergarten <input type="radio"/> Ⓓ When I was in first, second, or third grade <input type="radio"/> Ⓔ When I was in fourth or fifth grade <input type="radio"/> Ⓕ When I was in sixth, seventh, or eighth grade <input type="radio"/> Ⓖ When I was in high school 	NC	N/A
<p style="text-align: right; font-size: small;">VH155345</p> <p>4. When did you first use a tablet?</p> <ul style="list-style-type: none"> <input type="radio"/> Ⓐ I have never used one. <input type="radio"/> Ⓑ Before I was in kindergarten <input type="radio"/> Ⓒ When I was in kindergarten <input type="radio"/> Ⓓ When I was in first, second, or third grade <input type="radio"/> Ⓔ When I was in fourth or fifth grade <input type="radio"/> Ⓕ When I was in sixth, seventh, or eighth grade <input type="radio"/> Ⓖ When I was in high school <p>(2015 Grade 12)</p>	<p style="text-align: right; font-size: small;">V127029</p> <p>3. When did you first use a tablet?</p> <ul style="list-style-type: none"> <input type="radio"/> Ⓐ Never until this assessment <input type="radio"/> Ⓑ Before I was in kindergarten <input type="radio"/> Ⓒ When I was in kindergarten <input type="radio"/> Ⓓ When I was in first, second, or third grade <input type="radio"/> Ⓔ When I was in fourth or fifth grade <input type="radio"/> Ⓕ When I was in sixth, seventh, or eighth grade <input type="radio"/> Ⓖ When I was in high school 	R	<p>For DBA response option “A” is adapted to “Never until this assessment” to account for the fact that students are taking the eNAEP assessment on the tablet.</p>

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2019 Operational Grade 12 Computer and Familiarity Study (CAFS) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right; font-size: small;">VH155351</p> <p>5. When did you first use a smartphone?</p> <ul style="list-style-type: none"> <input type="radio"/> A I have never used one. <input type="radio"/> B Before I was in kindergarten <input type="radio"/> C When I was in kindergarten <input type="radio"/> D When I was in first, second, or third grade <input type="radio"/> E When I was in fourth or fifth grade <input type="radio"/> F When I was in sixth, seventh, or eighth grade <input type="radio"/> G When I was in high school <p>(2015 Grade 12)</p>	<p style="text-align: right; font-size: small;">VH270215</p> <p>4. When did you first use a smartphone?</p> <ul style="list-style-type: none"> <input type="radio"/> A I have never used one. <input type="radio"/> B Before I was in kindergarten <input type="radio"/> C When I was in kindergarten <input type="radio"/> D When I was in first, second, or third grade <input type="radio"/> E When I was in fourth or fifth grade <input type="radio"/> F When I was in sixth, seventh, or eighth grade <input type="radio"/> G When I was in high school 	NC	N/A
<p style="text-align: right; font-size: small;">VH155330</p> <p>6. On a weekday, about how many hours do you use a laptop or desktop computer for doing schoolwork, including homework?</p> <ul style="list-style-type: none"> <input type="radio"/> A None <input type="radio"/> B Less than an hour <input type="radio"/> C 1 to 2 hours <input type="radio"/> D 2 to 3 hours <input type="radio"/> E 3 to 4 hours <input type="radio"/> F More than 4 hours <p>(2015 Grade 12)</p>	<p style="text-align: right; font-size: small;">VH270147</p> <p>5. On a weekday, about how many hours do you use a laptop or desktop computer for doing schoolwork, including homework?</p> <ul style="list-style-type: none"> <input type="radio"/> A None <input type="radio"/> B Less than an hour <input type="radio"/> C 1 to 2 hours <input type="radio"/> D 2 to 3 hours <input type="radio"/> E 3 to 4 hours <input type="radio"/> F More than 4 hours 	NC	N/A

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2019 Operational Grade 12 Computer and Familiarity Study (CAFS) Student

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<p style="text-align: right; margin-bottom: 0;"><small>VH155332</small></p> <p>7. On a weekday, about how many hours do you use a tablet for doing schoolwork, including homework?</p> <p><input type="radio"/> None</p> <p><input type="radio"/> Less than an hour</p> <p><input type="radio"/> 1 to 2 hours</p> <p><input type="radio"/> 2 to 3 hours</p> <p><input type="radio"/> 3 to 4 hours</p> <p><input type="radio"/> More than 4 hours</p> <p>(2015 Grade 12)</p>	<p style="text-align: right; margin-bottom: 0;"><small>VH270148</small></p> <p>6. On a weekday, about how many hours do you use a tablet for doing schoolwork, including homework?</p> <p><input type="radio"/> None</p> <p><input type="radio"/> Less than an hour</p> <p><input type="radio"/> 1 to 2 hours</p> <p><input type="radio"/> 2 to 3 hours</p> <p><input type="radio"/> 3 to 4 hours</p> <p><input type="radio"/> More than 4 hours</p>	NC	N/A

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2019 Operational Grade 12 Computer and Familiarity Study (CAFS) Student

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2019 Operational Grade 12 Computer and Familiarity Study (CAFS) Student

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<p style="text-align: right; font-size: small;">VH155477</p> <p>9. Which of the following are true about the ways in which you and your teachers use computers at school? Fill in one oval on each line.</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 80%;"></th> <th style="width: 10%; text-align: center;">Yes</th> <th style="width: 10%; text-align: center;">No</th> </tr> </thead> <tbody> <tr> <td>a. In most of my classes there are laptop or desktop computers that I can use for schoolwork.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> <tr> <td>b. In most of my classes there are tablets that I can use for schoolwork.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> <tr> <td>c. There is Wi-Fi or some other Internet connection that I can use for schoolwork.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> <tr> <td>d. Most of my teachers use computers when teaching my classes.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> <tr> <td>e. Most of my teachers require us to use computers in the classroom.</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> </tbody> </table> <p style="font-size: small;">(2015 Grade 12)</p>		Yes	No	a. In most of my classes there are laptop or desktop computers that I can use for schoolwork.	<input type="radio"/>	<input type="radio"/>	b. In most of my classes there are tablets that I can use for schoolwork.	<input type="radio"/>	<input type="radio"/>	c. There is Wi-Fi or some other Internet connection that I can use for schoolwork.	<input type="radio"/>	<input type="radio"/>	d. Most of my teachers use computers when teaching my classes.	<input type="radio"/>	<input type="radio"/>	e. Most of my teachers require us to use computers in the classroom.	<input type="radio"/>	<input type="radio"/>	<p style="text-align: right; font-size: small;">VH270165</p> <p>8. Which of the following are true about the ways in which you and your teachers use computers at school? Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 20%;">Yes</th> <th style="width: 20%;">No</th> </tr> </thead> <tbody> <tr> <td>a. In most of my classes there are laptop or desktop computers that I can use for schoolwork.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> </tr> <tr> <td>b. In most of my classes there are tablets that I can use for schoolwork.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> </tr> <tr> <td>c. There is Wi-Fi or some other Internet connection that I can use for schoolwork.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> </tr> <tr> <td>d. Most of my teachers use computers when teaching my classes.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> </tr> <tr> <td>e. Most of my teachers require us to use computers in the classroom.</td> <td><input type="radio"/></td> <td><input type="radio"/></td> </tr> </tbody> </table>		Yes	No	a. In most of my classes there are laptop or desktop computers that I can use for schoolwork.	<input type="radio"/>	<input type="radio"/>	b. In most of my classes there are tablets that I can use for schoolwork.	<input type="radio"/>	<input type="radio"/>	c. There is Wi-Fi or some other Internet connection that I can use for schoolwork.	<input type="radio"/>	<input type="radio"/>	d. Most of my teachers use computers when teaching my classes.	<input type="radio"/>	<input type="radio"/>	e. Most of my teachers require us to use computers in the classroom.	<input type="radio"/>	<input type="radio"/>	NC	<p>The in-line direction was adapted from PBA to DBA: "Fill in one oval on each line." was adapted to "Select one answer choice on each row."</p>
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<p style="text-align: right; font-size: small;">VH196393</p> <p>10. Has your school assigned you a laptop or desktop computer that only you can use?</p> <p><input type="radio"/> No</p> <p><input type="radio"/> Yes, but I cannot take it home with me.</p> <p><input type="radio"/> Yes, and I can take it home with me (laptop only).</p> <p style="font-size: small;">(2015 Grade 12)</p>	<p style="text-align: right; font-size: small;">VH270166</p> <p>9. Has your school assigned you a laptop or desktop computer that only you can use?</p> <p><input type="radio"/> No</p> <p><input type="radio"/> Yes, but I cannot take it home with me.</p> <p><input type="radio"/> Yes, and I can take it home with me (laptop only).</p>	NC	N/A																																				
<p style="text-align: right; font-size: small;">VH196403</p> <p>11. Has your school assigned you a tablet that only you can use?</p> <p><input type="radio"/> No</p> <p><input type="radio"/> Yes, but I cannot take it home with me.</p> <p><input type="radio"/> Yes, and I can take it home with me.</p> <p style="font-size: small;">(2015 Grade 12)</p>	<p style="text-align: right; font-size: small;">VH270167</p> <p>10. Has your school assigned you a tablet that only you can use?</p> <p><input type="radio"/> No</p> <p><input type="radio"/> Yes, but I cannot take it home with me.</p> <p><input type="radio"/> Yes, and I can take it home with me.</p>	NC	N/A																																				

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

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j. Work collaboratively <i>with a team of students</i> to create a multimedia presentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH1270178																																																																																																																																																							

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2019 Operational Grade 12 Computer and Familiarity Study (CAFS) Student

Previous item	2019 item	D/A/R/NC+	Rationale																																																																																																																																																										
<p style="text-align: right; font-size: small;">VH155524</p> <p>13. This school year, how often have you used a tablet to do each of the following? Fill in one oval on each line.</p> <table style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 15%;"></th> <th style="width: 10%; text-align: center;">Never</th> <th style="width: 10%; text-align: center;">A few times</th> <th style="width: 10%; text-align: center;">Once every few weeks</th> <th style="width: 10%; text-align: center;">About once a week</th> <th style="width: 10%; text-align: center;">More than once a week</th> <th style="width: 15%;"></th> </tr> </thead> <tbody> <tr> <td>a. 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Work collaboratively <i>with a team of students</i> to create a multimedia presentation</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH224725</td> </tr> </tbody> </table> <p style="margin-top: 10px;">(2015 Grade 12)</p>		Never	A few times	Once every few weeks	About once a week	More than once a week		a. Write a short paper (less than a page) for school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH155525	b. Write a paper for school that was longer than a page	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	VH155526	c. 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Select one answer choice on each row.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 15%;"></th> <th style="width: 10%; text-align: center;">Never</th> <th style="width: 10%; text-align: center;">A few times</th> <th style="width: 10%; text-align: center;">Once every few weeks</th> <th style="width: 10%; text-align: center;">About once a week</th> <th style="width: 10%; text-align: center;">More than once a week</th> <th style="width: 15%;"></th> </tr> </thead> <tbody> <tr> <td>a. Write a short paper (less than a page) for school</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> <td style="font-size: x-small;">VH270163</td> </tr> <tr> <td>b. 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<p style="text-align: right; font-size: small;">VH155541</p> <p>14. Which best describes the way you type on a computer keyboard?</p> <ul style="list-style-type: none"> <input type="radio"/> I don't know how to type using a computer keyboard. <input type="radio"/> I can type with one or two fingers, but I have to search for where the letter keys are. <input type="radio"/> I can type with one or two fingers, and I know where most of the letter keys are. <input type="radio"/> I can type with all ten fingers when I look at the keyboard. <input type="radio"/> I can type with all ten fingers without looking at the keyboard. <p style="margin-top: 10px;">(2015 Grade 12)</p>	<p style="text-align: right; font-size: small;">VH270190</p> <p>13. Which best describes the way you type on a computer keyboard?</p> <ul style="list-style-type: none"> <input type="radio"/> I don't know how to type using a computer keyboard. <input type="radio"/> I can type with one or two fingers, but I have to search for where the letter keys are. <input type="radio"/> I can type with one or two fingers, and I know where most of the letter keys are. <input type="radio"/> I can type with all ten fingers when I look at the keyboard. <input type="radio"/> I can type with all ten fingers without looking at the keyboard. 	<p>NC</p>	<p>N/A</p>																																																																																																																																																										

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2019 Operational Grade 12 Computer and Familiarity Study (CAFS) Student

Previous item	2019 item	D/A/R/NC+	Rationale
<p style="text-align: right; font-size: small;">VH155884</p> <p>15. Compared to other students in your English/language arts class, how fast do you type on a computer keyboard?</p> <p><input type="radio"/> I am slower than most students.</p> <p><input type="radio"/> I type about the same speed as others.</p> <p><input type="radio"/> I am faster than most students.</p> <p><input type="radio"/> I don't know.</p> <p>(2015 Grade 12)</p>	<p>N/A</p>	<p>D</p>	<p>This item was dropped because it was not correlated with achievement, and was not conceptually central to the study.</p>
<p style="text-align: right; font-size: small;">VH1176991</p> <p>16. Would you rather take a test at school using paper and pencil or using a computer?</p> <p><input type="radio"/> Paper and pencil</p> <p><input type="radio"/> Computer</p> <p>(2015 Grade 12)</p>	<p style="text-align: right; font-size: small;">VH1270132</p> <p>14. Would you rather take a test at school using paper and pencil or using a computer?</p> <p><input type="radio"/> Paper and pencil</p> <p><input type="radio"/> Computer</p>	<p>NC</p>	<p>N/A</p>

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2019 Operational Grade 12 Computer and Familiarity Study (CAFS) Student

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<p>17. Do you think you would be able to do each of the following? Fill in one oval on each line.</p> <p style="text-align: right; font-size: small;">VH1155799</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 10%; text-align: center;">I definitely can't.</th> <th style="width: 10%; text-align: center;">I probably can't.</th> <th style="width: 10%; text-align: center;">I probably can.</th> <th style="width: 10%; text-align: center;">I definitely can.</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>a. Write sentences and paragraphs using a computer</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="font-size: x-small;">VH1176967</td> </tr> <tr> <td>b. Edit text using a computer</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="font-size: x-small;">VH1155803</td> </tr> <tr> <td>c. Use a touchscreen on a computer, tablet, or smartphone</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="font-size: x-small;">VH1176970</td> </tr> <tr> <td>d. Look up the meaning of a word using a computer</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="font-size: x-small;">VH1155810</td> </tr> <tr> <td>e. 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Select one answer choice on each row.</p> <p style="text-align: right; font-size: x-small;">VH120215</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 45%;"></th> <th style="width: 10%; text-align: center;">I definitely can't.</th> <th style="width: 10%; text-align: center;">I probably can't.</th> <th style="width: 10%; text-align: center;">I probably can.</th> <th style="width: 10%; text-align: center;">I definitely can.</th> <th style="width: 15%;"></th> </tr> </thead> <tbody> <tr> <td>a. Write sentences and paragraphs using a computer</td> <td style="text-align: center;">Ⓐ</td> <td style="text-align: center;">Ⓑ</td> <td style="text-align: center;">Ⓒ</td> <td style="text-align: center;">Ⓓ</td> <td style="font-size: x-small;">VH1270229</td> </tr> <tr> <td>b. 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+ This column indicates whether the item was dropped (D), added (A), revised (R), or there was no change (NC).

2019 Operational Grade 12 Computer and Familiarity Study (CAFS) Student

Previous item	2019 item	D/A/R/NC+	Rationale
<p style="text-align: right; font-size: small;">VH155876</p> <p>18. On a scale from 0 to 10, where 0 is not at all familiar and 10 is very familiar, how familiar with using computers and other digital devices are you?</p> <p><input type="radio"/> 0</p> <p><input type="radio"/> 1</p> <p><input type="radio"/> 2</p> <p><input type="radio"/> 3</p> <p><input type="radio"/> 4</p> <p><input type="radio"/> 5</p> <p><input type="radio"/> 6</p> <p><input type="radio"/> 7</p> <p><input type="radio"/> 8</p> <p><input type="radio"/> 9</p> <p><input type="radio"/> 10</p> <p>(2015 Grade 12)</p>	<p style="text-align: right; font-size: small;">VH27033</p> <p>16. On a scale from 0 to 10, where 0 is not at all familiar and 10 is very familiar, how familiar with using computers and other digital devices are you?</p> <p><input type="radio"/> 0</p> <p><input type="radio"/> 1</p> <p><input type="radio"/> 2</p> <p><input type="radio"/> 3</p> <p><input type="radio"/> 4</p> <p><input type="radio"/> 5</p> <p><input type="radio"/> 6</p> <p><input type="radio"/> 7</p> <p><input type="radio"/> 8</p> <p><input type="radio"/> 9</p> <p><input type="radio"/> 10</p>	NC	N/A
<p style="text-align: right; font-size: small;">VH155881</p> <p>Please read the descriptions of the following four twelfth-grade students. After you read each description, you will be asked to answer a question about each student based on the information provided.</p> <p style="text-align: right; font-size: small;">VH155887</p> <p>19. Linda often uses apps to talk to her friends or to play games. She does some of her homework on her laptop and knows how to write and create tables using a computer. Linda cannot type with 10 fingers but is pretty fast with two fingers and mostly finds the right keys.</p> <p>On a scale from 0 to 10, where 0 is not at all familiar and 10 is very familiar, how familiar with using computers and other digital devices do you think <u>Linda</u> is?</p> <p><input type="radio"/> 0</p> <p><input type="radio"/> 1</p> <p><input type="radio"/> 2</p> <p><input type="radio"/> 3</p> <p><input type="radio"/> 4</p> <p><input type="radio"/> 5</p> <p><input type="radio"/> 6</p> <p><input type="radio"/> 7</p> <p><input type="radio"/> 8</p> <p><input type="radio"/> 9</p> <p><input type="radio"/> 10</p> <p>(2015 Grade 12)</p>	<p style="text-align: right; font-size: small;">VH27046</p> <p>17. Please read the descriptions of the following four twelfth-grade students. After you read each description, you will be asked to answer a question about each student based on the information provided.</p> <p>Linda often uses apps to talk to her friends or to play games. She does some of her homework on her laptop and knows how to write and create tables using a computer. Linda cannot type with 10 fingers but is pretty fast with two fingers and mostly finds the right keys.</p> <p>On a scale from 0 to 10, where 0 is not at all familiar and 10 is very familiar, how familiar with using computers and other digital devices do you think <u>Linda</u> is?</p> <p><input type="radio"/> 0</p> <p><input type="radio"/> 1</p> <p><input type="radio"/> 2</p> <p><input type="radio"/> 3</p> <p><input type="radio"/> 4</p> <p><input type="radio"/> 5</p> <p><input type="radio"/> 6</p> <p><input type="radio"/> 7</p> <p><input type="radio"/> 8</p> <p><input type="radio"/> 9</p> <p><input type="radio"/> 10</p>	NC	N/A

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

2019 Operational Grade 12 Computer and Familiarity Study (CAFS) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right; font-size: small;">VH155932</p> <p>20. Tom often uses apps to talk to his friends or to play games. He does most of his homework on a computer and knows how to write and edit papers on a computer and how to create complex tables or charts. He also created a few presentations using a computer. Tom can type pretty accurately using ten fingers when looking at the computer keyboard.</p> <p>On a scale from 0 to 10, where 0 is not at all familiar and 10 is very familiar, how familiar with using computers and other digital devices do you think Tom is?</p> <p>Ⓐ 0 Ⓑ 1 Ⓒ 2 Ⓓ 3 Ⓔ 4 Ⓕ 5 Ⓖ 6 Ⓗ 7 Ⓘ 8 Ⓚ 9 Ⓛ 10</p> <p>(2015 Grade 12)</p>	<p style="text-align: right; font-size: small;">VH270277</p> <p>18. Tom often uses apps to talk to his friends or to play games. He does most of his homework on a computer and knows how to write and edit papers on a computer and how to create complex tables or charts. He also created a few presentations using a computer. Tom can type pretty accurately using ten fingers when looking at the computer keyboard.</p> <p>On a scale from 0 to 10, where 0 is not at all familiar and 10 is very familiar, how familiar with using computers and other digital devices do you think Tom is?</p> <p>Ⓐ 0 Ⓑ 1 Ⓒ 2 Ⓓ 3 Ⓔ 4 Ⓕ 5 Ⓖ 6 Ⓗ 7 Ⓘ 8 Ⓚ 9 Ⓛ 10</p>	NC	N/A

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

2019 Operational Grade 12 Computer and Familiarity Study (CAFS) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
<p style="text-align: right;"><small>VH1155939</small></p> <p>21. Susan often uses apps on a smartphone or tablet and does most of her homework on a laptop. She is good at writing and editing papers on her computer and has experience with creating complex tables and charts. Susan can type fast and accurately with 10 fingers without looking at the computer keyboard. She also knows a couple of programming languages. This school year, she built her first app.</p> <p>On a scale from 0 to 10, where 0 is not at all familiar and 10 is very familiar, how familiar with using computers and other digital devices do you think <u>Susan</u> is?</p> <p><input type="radio"/> 0</p> <p><input type="radio"/> 1</p> <p><input type="radio"/> 2</p> <p><input type="radio"/> 3</p> <p><input type="radio"/> 4</p> <p><input type="radio"/> 5</p> <p><input type="radio"/> 6</p> <p><input type="radio"/> 7</p> <p><input type="radio"/> 8</p> <p><input type="radio"/> 9</p> <p><input type="radio"/> 10</p> <p>(2015 Grade 12)</p>	<p style="text-align: right;"><small>VH1270238</small></p> <p>19. Susan often uses apps on a smartphone or tablet and does most of her homework on a laptop. She is good at writing and editing papers on her computer and has experience with creating complex tables and charts. Susan can type fast and accurately with 10 fingers without looking at the computer keyboard. She also knows a couple of programming languages. This school year, she built her first app.</p> <p>On a scale from 0 to 10, where 0 is not at all familiar and 10 is very familiar, how familiar with using computers and other digital devices do you think <u>Susan</u> is?</p> <p><input type="radio"/> 0</p> <p><input type="radio"/> 1</p> <p><input type="radio"/> 2</p> <p><input type="radio"/> 3</p> <p><input type="radio"/> 4</p> <p><input type="radio"/> 5</p> <p><input type="radio"/> 6</p> <p><input type="radio"/> 7</p> <p><input type="radio"/> 8</p> <p><input type="radio"/> 9</p> <p><input type="radio"/> 10</p>	NC	N/A
<p style="text-align: right;"><small>VH1155944</small></p> <p>22. Kevin sometimes plays games on his smartphone or a computer, but he usually does not use a computer for his homework. He used a computer a couple of times to write a paper but never used a computer to create tables, charts, or presentations. Kevin can type with one or two fingers but has to search to find the correct keys on the computer keyboard.</p> <p>On a scale from 0 to 10, where 0 is not at all familiar and 10 is very familiar, how familiar with using computers and other digital devices do you think <u>Kevin</u> is?</p> <p><input type="radio"/> 0</p> <p><input type="radio"/> 1</p> <p><input type="radio"/> 2</p> <p><input type="radio"/> 3</p> <p><input type="radio"/> 4</p> <p><input type="radio"/> 5</p> <p><input type="radio"/> 6</p> <p><input type="radio"/> 7</p> <p><input type="radio"/> 8</p> <p><input type="radio"/> 9</p> <p><input type="radio"/> 10</p> <p>(2015 Grade 12)</p>	<p style="text-align: right;"><small>VH1270239</small></p> <p>20. Kevin sometimes plays games on his smartphone or a computer, but he usually does not use a computer for his homework. He used a computer a couple of times to write a paper but never used a computer to create tables, charts, or presentations. Kevin can type with one or two fingers but has to search to find the correct keys on the computer keyboard.</p> <p>On a scale from 0 to 10, where 0 is not at all familiar and 10 is very familiar, how familiar with using computers and other digital devices do you think <u>Kevin</u> is?</p> <p><input type="radio"/> 0</p> <p><input type="radio"/> 1</p> <p><input type="radio"/> 2</p> <p><input type="radio"/> 3</p> <p><input type="radio"/> 4</p> <p><input type="radio"/> 5</p> <p><input type="radio"/> 6</p> <p><input type="radio"/> 7</p> <p><input type="radio"/> 8</p> <p><input type="radio"/> 9</p> <p><input type="radio"/> 10</p>	NC	N/A

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2019 Operational Grade 12 Computer and Familiarity Study (CAFS) Student

Previous item	2019 item	D/A/R/NC+	Rationale																																																																																																																																																																																																																																				
<p>23. How familiar are you with each of the following? Fill in one oval on each line.</p> <p style="text-align: right; font-size: small;">VH155750</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;"></th> <th style="width: 10%; text-align: center;">Never heard of it</th> <th style="width: 10%; text-align: center;">Heard of it once or twice</th> <th style="width: 10%; text-align: center;">Heard of it often</th> <th style="width: 10%; text-align: center;">Know it well, understand the concept</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr><td>a. E-reader</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH155751</td></tr> <tr><td>b. Wi-Fi</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH155752</td></tr> <tr><td>c. Firewall</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH155753</td></tr> <tr><td>d. Hyperlink</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH155756</td></tr> <tr><td>e. Neuro-digital computing</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH155757</td></tr> <tr><td>f. Instant messaging</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH155758</td></tr> <tr><td>g. CPU</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH155759</td></tr> <tr><td>h. Track changes</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH155760</td></tr> <tr><td>i. Cut and paste</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH155761</td></tr> <tr><td>j. Pyramidal browser</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH155762</td></tr> <tr><td>k. Pivot table</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH155763</td></tr> <tr><td>l. Spreadsheet</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH155765</td></tr> <tr><td>m. Limbic wire</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH155766</td></tr> <tr><td>n. Spinalbyte</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH155767</td></tr> <tr><td>o. Cloud computing</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH155768</td></tr> <tr><td>p. Server</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH155769</td></tr> <tr><td>q. Root directory</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH155770</td></tr> <tr><td>r. Compiler</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH155771</td></tr> <tr><td>s. ASCII</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH155772</td></tr> <tr><td>t. Callosum board</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH155779</td></tr> </tbody> </table> <p>(2015 Grade 12)</p>		Never heard of it	Heard of it once or twice	Heard of it often	Know it well, understand the concept		a. E-reader	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155751	b. Wi-Fi	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155752	c. Firewall	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155753	d. Hyperlink	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155756	e. Neuro-digital computing	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155757	f. Instant messaging	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155758	g. CPU	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155759	h. Track changes	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155760	i. Cut and paste	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155761	j. Pyramidal browser	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155762	k. Pivot table	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155763	l. Spreadsheet	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155765	m. Limbic wire	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155766	n. Spinalbyte	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155767	o. Cloud computing	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155768	p. Server	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155769	q. Root directory	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155770	r. Compiler	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155771	s. ASCII	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155772	t. Callosum board	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155779	<p>21. How familiar are you with each of the following? Select one answer choice on each row.</p> <p style="text-align: right; font-size: x-small;">VH170194</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th style="width: 40%;"></th> <th style="width: 10%; text-align: center;">Never heard of it</th> <th style="width: 10%; text-align: center;">Heard of it once or twice</th> <th style="width: 10%; text-align: center;">Heard of it often</th> <th style="width: 10%; text-align: center;">Know it well, understand the concept</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr><td>a. E-reader</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH170195</td></tr> <tr><td>b. Wi-Fi</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH170196</td></tr> <tr><td>c. Firewall</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH170197</td></tr> <tr><td>d. Hyperlink</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH170198</td></tr> <tr><td>e. Neuro-digital computing</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH170199</td></tr> <tr><td>f. Instant messaging</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH170200</td></tr> <tr><td>g. CPU</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH170201</td></tr> <tr><td>h. Cut and paste</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH170202</td></tr> <tr><td>i. Pyramidal browser</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH170204</td></tr> <tr><td>j. Spreadsheet</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH170205</td></tr> <tr><td>k. Limbic wire</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH170207</td></tr> <tr><td>l. Spinalbyte</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH170208</td></tr> <tr><td>m. Cloud computing</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH170209</td></tr> <tr><td>n. Server</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH170210</td></tr> <tr><td>o. Compiler</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH170212</td></tr> <tr><td>p. Callosum board</td><td style="text-align: center;">Ⓐ</td><td style="text-align: center;">Ⓑ</td><td style="text-align: center;">Ⓒ</td><td style="text-align: center;">Ⓓ</td><td style="text-align: right; font-size: x-small;">VH170214</td></tr> </tbody> </table>		Never heard of it	Heard of it once or twice	Heard of it often	Know it well, understand the concept		a. E-reader	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170195	b. Wi-Fi	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170196	c. Firewall	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170197	d. Hyperlink	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170198	e. Neuro-digital computing	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170199	f. Instant messaging	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170200	g. CPU	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170201	h. Cut and paste	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170202	i. Pyramidal browser	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170204	j. Spreadsheet	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170205	k. Limbic wire	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170207	l. Spinalbyte	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170208	m. Cloud computing	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170209	n. Server	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170210	o. Compiler	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170212	p. Callosum board	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170214	<p>R</p>	<p>Previous sub-items “h”, “k”, “q”, “s” were dropped.</p> <p>The in-line direction was adapted from PBA to DBA: "Fill in one oval on each line." was adapted to "Select one answer choice on each row."</p>
	Never heard of it	Heard of it once or twice	Heard of it often	Know it well, understand the concept																																																																																																																																																																																																																																			
a. E-reader	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155751																																																																																																																																																																																																																																		
b. Wi-Fi	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155752																																																																																																																																																																																																																																		
c. Firewall	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155753																																																																																																																																																																																																																																		
d. Hyperlink	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155756																																																																																																																																																																																																																																		
e. Neuro-digital computing	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155757																																																																																																																																																																																																																																		
f. Instant messaging	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155758																																																																																																																																																																																																																																		
g. CPU	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155759																																																																																																																																																																																																																																		
h. Track changes	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155760																																																																																																																																																																																																																																		
i. Cut and paste	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155761																																																																																																																																																																																																																																		
j. Pyramidal browser	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155762																																																																																																																																																																																																																																		
k. Pivot table	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155763																																																																																																																																																																																																																																		
l. Spreadsheet	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155765																																																																																																																																																																																																																																		
m. Limbic wire	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155766																																																																																																																																																																																																																																		
n. Spinalbyte	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155767																																																																																																																																																																																																																																		
o. Cloud computing	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155768																																																																																																																																																																																																																																		
p. Server	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155769																																																																																																																																																																																																																																		
q. Root directory	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155770																																																																																																																																																																																																																																		
r. Compiler	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155771																																																																																																																																																																																																																																		
s. ASCII	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155772																																																																																																																																																																																																																																		
t. Callosum board	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH155779																																																																																																																																																																																																																																		
	Never heard of it	Heard of it once or twice	Heard of it often	Know it well, understand the concept																																																																																																																																																																																																																																			
a. E-reader	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170195																																																																																																																																																																																																																																		
b. Wi-Fi	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170196																																																																																																																																																																																																																																		
c. Firewall	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170197																																																																																																																																																																																																																																		
d. Hyperlink	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170198																																																																																																																																																																																																																																		
e. Neuro-digital computing	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170199																																																																																																																																																																																																																																		
f. Instant messaging	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170200																																																																																																																																																																																																																																		
g. CPU	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170201																																																																																																																																																																																																																																		
h. Cut and paste	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170202																																																																																																																																																																																																																																		
i. Pyramidal browser	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170204																																																																																																																																																																																																																																		
j. Spreadsheet	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170205																																																																																																																																																																																																																																		
k. Limbic wire	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170207																																																																																																																																																																																																																																		
l. Spinalbyte	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170208																																																																																																																																																																																																																																		
m. Cloud computing	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170209																																																																																																																																																																																																																																		
n. Server	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170210																																																																																																																																																																																																																																		
o. Compiler	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170212																																																																																																																																																																																																																																		
p. Callosum board	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH170214																																																																																																																																																																																																																																		

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

Appendix K-1bb: Operational Grade 12 CAFS

1. At home, do you have any of the following? Select **one** answer choice on each row.

	Yes	No	
a. A laptop or desktop computer that is only for your use	Ⓐ	Ⓑ	VH270141
b. A laptop or desktop computer that is shared between you and others	Ⓐ	Ⓑ	VH270142
c. A tablet that is only for your use	Ⓐ	Ⓑ	VH270139
d. A tablet that is shared between you and others	Ⓐ	Ⓑ	VH270140
e. Wi-Fi or some other Internet connection you can use	Ⓐ	Ⓑ	VH270143
f. A smartphone that is only for your use	Ⓐ	Ⓑ	VH270144

2. When did you first use a **laptop or desktop computer**?

- Ⓐ I have never used one.
- Ⓑ Before I was in kindergarten
- Ⓒ When I was in kindergarten
- Ⓓ When I was in first, second, or third grade
- Ⓔ When I was in fourth or fifth grade
- Ⓕ When I was in sixth, seventh, or eighth grade
- Ⓖ When I was in high school

3. When did you first use a **tablet**?

- Ⓐ Never until this assessment
- Ⓑ Before I was in kindergarten
- Ⓒ When I was in kindergarten
- Ⓓ When I was in first, second, or third grade
- Ⓔ When I was in fourth or fifth grade
- Ⓕ When I was in sixth, seventh, or eighth grade
- Ⓖ When I was in high school

4. When did you first use a **smartphone**?

- Ⓐ I have never used one.
- Ⓑ Before I was in kindergarten
- Ⓒ When I was in kindergarten
- Ⓓ When I was in first, second, or third grade
- Ⓔ When I was in fourth or fifth grade
- Ⓕ When I was in sixth, seventh, or eighth grade
- Ⓖ When I was in high school

5. **On a weekday**, about **how many hours** do you use a **laptop or desktop computer** for doing schoolwork, including homework?

- Ⓐ None
- Ⓑ Less than an hour
- Ⓒ 1 to 2 hours
- Ⓓ 2 to 3 hours
- Ⓔ 3 to 4 hours
- Ⓕ More than 4 hours

6. **On a weekday**, about **how many hours** do you use a **tablet** for doing schoolwork, including homework?

- Ⓐ None
- Ⓑ Less than an hour
- Ⓒ 1 to 2 hours
- Ⓓ 2 to 3 hours
- Ⓔ 3 to 4 hours
- Ⓕ More than 4 hours

7. Were you taught any of the following **at school**? Select **one** answer choice on each row.

	Yes	No	
a. How to type on a computer keyboard using the correct fingers	<input type="radio"/> A	<input type="radio"/> B	VH270150
b. How to write sentences and paragraphs using a computer	<input type="radio"/> A	<input type="radio"/> B	VH270151
c. How to edit text using a computer	<input type="radio"/> A	<input type="radio"/> B	VH270164
d. How to search for information on the Internet	<input type="radio"/> A	<input type="radio"/> B	VH270152
e. How to use a tablet	<input type="radio"/> A	<input type="radio"/> B	VH270156
f. How to look up the meaning of a word using a computer	<input type="radio"/> A	<input type="radio"/> B	VH270157
g. How to create a spreadsheet using a computer	<input type="radio"/> A	<input type="radio"/> B	VH270154
h. How to create a presentation using a computer	<input type="radio"/> A	<input type="radio"/> B	VH270155
i. How to run simulations using a computer	<input type="radio"/> A	<input type="radio"/> B	VH270159
j. How to write a computer program or app	<input type="radio"/> A	<input type="radio"/> B	VH270160
k. How to create a graph or chart using a computer	<input type="radio"/> A	<input type="radio"/> B	VH270161
l. How to troubleshoot problems with a computer	<input type="radio"/> A	<input type="radio"/> B	VH270158

8. Which of the following are true about the ways in which you and your teachers use computers **at school**? Select **one** answer choice on each row.

	Yes	No	
a. In most of my classes there are laptop or desktop computers that I can use for schoolwork.	<input type="radio"/> A	<input type="radio"/> B	VH270166
b. In most of my classes there are tablets that I can use for schoolwork.	<input type="radio"/> A	<input type="radio"/> B	VH270167
c. There is Wi-Fi or some other Internet connection that I can use for schoolwork.	<input type="radio"/> A	<input type="radio"/> B	VH270170
d. Most of my teachers use computers when teaching my classes.	<input type="radio"/> A	<input type="radio"/> B	VH270169
e. Most of my teachers require us to use computers in the classroom.	<input type="radio"/> A	<input type="radio"/> B	VH270168

9. Has your school assigned you a **laptop or desktop computer** that only you can use?

- A No
 B Yes, but I cannot take it home with me.
 C Yes, and I can take it home with me (laptop only).

10. Has your school assigned you a **tablet** that only you can use?

- A No
 B Yes, but I cannot take it home with me.
 C Yes, and I can take it home with me.

11. This school year, how often have you used a **laptop or desktop computer** to do each of the following? Select **one** answer choice on each row.

	Never	A few times	Once every few weeks	About once a week	More than once a week	
a. Write a short paper (less than a page) for school	(A)	(B)	(C)	(D)	(E)	VH270172
b. Write a paper for school that was longer than a page	(A)	(B)	(C)	(D)	(E)	VH270173
c. Search the Internet for a school project	(A)	(B)	(C)	(D)	(E)	VH270174
d. Practice things in mathematics that you were having trouble learning	(A)	(B)	(C)	(D)	(E)	VH270181
e. Practice things in reading that you were having trouble learning	(A)	(B)	(C)	(D)	(E)	VH270177
f. Take a test	(A)	(B)	(C)	(D)	(E)	VH270175
g. Create a map	(A)	(B)	(C)	(D)	(E)	VH270178
h. Work on a website or blog that you maintain	(A)	(B)	(C)	(D)	(E)	VH270179
i. Create a multimedia presentation <i>on your own</i>	(A)	(B)	(C)	(D)	(E)	VH270180
j. Work collaboratively <i>with a team of students</i> to create a multimedia presentation	(A)	(B)	(C)	(D)	(E)	VH270176

12. This school year, how often have you used a **tablet** to do each of the following? Select **one** answer choice on each row.

	Never	A few times	Once every few weeks	About once a week	More than once a week	
a. Write a short paper (less than a page) for school	(A)	(B)	(C)	(D)	(E)	VH270183
b. Write a paper for school that was longer than a page	(A)	(B)	(C)	(D)	(E)	VH270188
c. Search the Internet for a school project	(A)	(B)	(C)	(D)	(E)	VH270184
d. Practice things in mathematics that you were having trouble learning	(A)	(B)	(C)	(D)	(E)	VH270185
e. Practice things in reading that you were having trouble learning	(A)	(B)	(C)	(D)	(E)	VH270186
f. Take a test	(A)	(B)	(C)	(D)	(E)	VH270192
g. Create a map	(A)	(B)	(C)	(D)	(E)	VH270189
h. Work on a website or blog that you maintain	(A)	(B)	(C)	(D)	(E)	VH270190
i. Create a multimedia presentation <i>on your own</i>	(A)	(B)	(C)	(D)	(E)	VH270191
j. Work collaboratively <i>with a team of students</i> to create a multimedia presentation	(A)	(B)	(C)	(D)	(E)	VH270187

13. Which best describes the way you type on a computer keyboard?

- Ⓐ I don't know how to type using a computer keyboard.
- Ⓑ I can type with one or two fingers, but I have to search for where the letter keys are.
- Ⓒ I can type with one or two fingers, and I know where most of the letter keys are.
- Ⓓ I can type with all ten fingers when I look at the keyboard.
- Ⓔ I can type with all ten fingers without looking at the keyboard.

14. Would you rather take a test at school using paper and pencil or using a computer?

- Ⓐ Paper and pencil
- Ⓑ Computer

15. Do you think 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.	I probably can.	I definitely can.	
a. Write sentences and paragraphs using a computer	(A)	(B)	(C)	(D)	VH270229
b. Edit text using a computer	(A)	(B)	(C)	(D)	VH270218
c. Use a touchscreen on a computer, tablet, or smartphone	(A)	(B)	(C)	(D)	VH270230
d. Look up the meaning of a word using a computer	(A)	(B)	(C)	(D)	VH270225
e. Draw a picture using a computer	(A)	(B)	(C)	(D)	VH270226
f. View or download digital media	(A)	(B)	(C)	(D)	VH270216
g. Create a presentation using a computer	(A)	(B)	(C)	(D)	VH270228
h. Create a spreadsheet using a computer	(A)	(B)	(C)	(D)	VH270231
i. Install new software or apps	(A)	(B)	(C)	(D)	VH270219
j. Participate in online discussions, forums, social networking sites, or virtual communities	(A)	(B)	(C)	(D)	VH270220
k. Maintain a website or blog	(A)	(B)	(C)	(D)	VH270221
l. Search for information on the Internet	(A)	(B)	(C)	(D)	VH270222
m. Run simulations using a computer	(A)	(B)	(C)	(D)	VH270223
n. Create a graph or chart using a computer	(A)	(B)	(C)	(D)	VH270224
o. Write a computer program or app	(A)	(B)	(C)	(D)	VH270227
p. Troubleshoot a problem with a computer	(A)	(B)	(C)	(D)	VH270232
q. Figure out how to use new functions of a digital device that I am not yet familiar with	(A)	(B)	(C)	(D)	VH270217

16. On a scale from 0 to 10, where 0 is not at all familiar and 10 is very familiar, **how familiar with using computers and other digital devices are you?**

- Ⓐ 0
- Ⓑ 1
- Ⓒ 2
- Ⓓ 3
- Ⓔ 4
- Ⓕ 5
- Ⓖ 6
- Ⓗ 7
- Ⓘ 8
- Ⓝ 9
- Ⓚ 10

17. Please read the descriptions of the following four twelfth-grade students. After you read each description, you will be asked to answer a question about each student based on the information provided.

Linda often uses apps to talk to her friends or to play games. She does some of her homework on her laptop and knows how to write and create tables using a computer. Linda cannot type with 10 fingers but is pretty fast with two fingers and mostly finds the right keys.

On a scale from 0 to 10, where 0 is not at all familiar and 10 is very familiar, **how familiar with using computers and other digital devices do you think Linda is?**

- Ⓐ 0
- Ⓑ 1
- Ⓒ 2
- Ⓓ 3
- Ⓔ 4
- Ⓕ 5
- Ⓖ 6
- Ⓗ 7
- Ⓘ 8
- Ⓙ 9
- Ⓚ 10

18. **Tom** often uses apps to talk to his friends or to play games. He does most of his homework on a computer and knows how to write and edit papers on a computer and how to create complex tables or charts. He also created a few presentations using a computer. Tom can type pretty accurately using ten fingers when looking at the computer keyboard.

On a scale from 0 to 10, where 0 is not at all familiar and 10 is very familiar, **how familiar with using computers and other digital devices do you think Tom is?**

- Ⓐ 0
- Ⓑ 1
- Ⓒ 2
- Ⓓ 3
- Ⓔ 4
- Ⓕ 5
- Ⓖ 6
- Ⓗ 7
- Ⓘ 8
- Ⓙ 9
- Ⓚ 10

19. **Susan** often uses apps on a smartphone or tablet and does most of her homework on a laptop. She is good at writing and editing papers on her computer and has experience with creating complex tables and charts. Susan can type fast and accurately with 10 fingers without looking at the computer keyboard. She also knows a couple of programming languages. This school year, she built her first app.

On a scale from 0 to 10, where 0 is not at all familiar and 10 is very familiar, **how familiar with using computers and other digital devices do you think Susan is?**

- Ⓐ 0
- Ⓑ 1
- Ⓒ 2
- Ⓓ 3
- Ⓔ 4
- Ⓕ 5
- Ⓖ 6
- Ⓗ 7
- Ⓘ 8
- Ⓝ 9
- Ⓚ 10

20. **Kevin** sometimes plays games on his smartphone or a computer, but he usually does not use a computer for his homework. He used a computer a couple of times to write a paper but never used a computer to create tables, charts, or presentations. Kevin can type with one or two fingers but has to search to find the correct keys on the computer keyboard.

On a scale from 0 to 10, where 0 is not at all familiar and 10 is very familiar, **how familiar with using computers and other digital devices do you think Kevin is?**

- Ⓐ 0
- Ⓑ 1
- Ⓒ 2
- Ⓓ 3
- Ⓔ 4
- Ⓕ 5
- Ⓖ 6
- Ⓗ 7
- Ⓘ 8
- Ⓙ 9
- Ⓚ 10

21. How familiar are you with each of the following? Select **one** answer choice on each row.

	Never heard of it	Heard of it once or twice	Heard of it often	Know it well, understand the concept	
a. E-reader	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH270195
b. Wi-Fi	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH270196
c. Firewall	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH270197
d. Hyperlink	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH270198
e. Neuro-digital computing	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH270199
f. Instant messaging	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH270200
g. CPU	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH270201
h. Cut and paste	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH270203
i. Pyramidal browser	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH270204
j. Spreadsheet	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH270206
k. Limbic wire	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH270207
l. Spinalbyte	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH270208
m. Cloud computing	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH270209
n. Server	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH270210
o. Compiler	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH270212
p. Callosum board	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH270214

Appendix K-1bc: Summary of Changes Operational Grade 4 ESQ

2019 Operational Grade 4 Extended Student Questionnaire (ESQ) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
N/A	<p style="text-align: right;"><small>VH863709</small></p> <p>In the last month, how many different homes have you been living in? (If you have moved in the last month, do not count the home where you used to live.)</p> <p>Ⓐ Zero homes Ⓑ One home Ⓒ Two homes Ⓓ Three or more homes</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.
N/A	<p style="text-align: right;"><small>VH894192</small></p> <p>Think about all the people who live with you in your home. Not including you, how many children 17 years or younger live with you?</p> <p>Ⓐ 0 Ⓑ 1 Ⓒ 2 Ⓓ More than 2</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.
N/A	<p style="text-align: right;"><small>VH894196</small></p> <p>How many adults 18 years and older live with you?</p> <p>Ⓐ 1 Ⓑ 2 Ⓒ More than 2</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.
N/A	<p style="text-align: right;"><small>VH894198</small></p> <p>You said you live in more than one home. Think about all the people who live with you in one of these homes (you can tell us about up to two homes). We will call it Home #1. Not including you, how many children 17 years or younger live with you in Home #1?</p> <p>Ⓐ 0 Ⓑ 1 Ⓒ 2 Ⓓ More than 2</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.

2019 Operational Grade 4 Extended Student Questionnaire (ESQ) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
N/A	<p style="text-align: right; font-size: small;">VH894202</p> <p>How many adults 18 years and older live with you in Home #1?</p> <p>Ⓐ 1 Ⓑ 2 Ⓒ More than 2</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.
N/A	<p style="text-align: right; font-size: small;">VH894204</p> <p>You have told us about the people in one of your homes. Now think about all the people who live with you in your other home. We will call it Home #2. Not including you, how many children 17 years or younger live with you in Home #2?</p> <p>Ⓐ 0 Ⓑ 1 Ⓒ 2 Ⓓ More than 2</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.
N/A	<p style="text-align: right; font-size: small;">VH894209</p> <p>How many adults 18 years and older live with you in Home #2?</p> <p>Ⓐ 1 Ⓑ 2 Ⓒ More than 2</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.
N/A	<p style="text-align: right; font-size: small;">VH863933</p> <p>Now think about all of the adults in all of your homes. How many of the adults that live with you are taking care of you?</p> <p>Ⓐ 1 Ⓑ 2 Ⓒ 3 Ⓓ 4 Ⓔ More than 4</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.

2019 Operational Grade 4 Extended Student Questionnaire (ESQ) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
N/A	<p style="text-align: right;"><small>VH863771</small></p> <p>You said one adult is taking care of you. Who is this adult?</p> <p><input type="radio"/> Mother</p> <p><input type="radio"/> Stepmother</p> <p><input type="radio"/> Foster mother</p> <p><input type="radio"/> Grandmother or female relative</p> <p><input type="radio"/> Other female adult (Please specify: _____)</p> <p><input type="radio"/> Father</p> <p><input type="radio"/> Stepfather</p> <p><input type="radio"/> Foster father</p> <p><input type="radio"/> Grandfather or male relative</p> <p><input type="radio"/> Other male adult (Please specify: _____)</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.
N/A	<p style="text-align: right;"><small>VH863781</small></p> <p>You said more than one adult is taking care of you. Think about the first adult (you can tell us about up to four adults). We will call them Adult #1. Who is Adult #1?</p> <p><input type="radio"/> Mother</p> <p><input type="radio"/> Stepmother</p> <p><input type="radio"/> Foster mother</p> <p><input type="radio"/> Grandmother or female relative</p> <p><input type="radio"/> Other female adult (Please specify: _____)</p> <p><input type="radio"/> Father</p> <p><input type="radio"/> Stepfather</p> <p><input type="radio"/> Foster father</p> <p><input type="radio"/> Grandfather or male relative</p> <p><input type="radio"/> Other male adult (Please specify: _____)</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.

2019 Operational Grade 4 Extended Student Questionnaire (ESQ) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
N/A	<div style="text-align: right; font-size: small;">VH863784</div> <p>Think about the second adult taking care of you. We will call them Adult #2. Who is Adult #2?</p> <ul style="list-style-type: none"> <input type="radio"/> Mother <input type="radio"/> Second mother <input type="radio"/> Stepmother <input type="radio"/> Foster mother <input type="radio"/> Grandmother or female relative <input type="radio"/> Other female adult (Please specify: _____) <input type="radio"/> Father <input type="radio"/> Second father <input type="radio"/> Stepfather <input type="radio"/> Foster father <input type="radio"/> Grandfather or male relative <input type="radio"/> Other male adult (Please specify: _____) <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.
N/A	<div style="text-align: right; font-size: small;">VH863791</div> <p>Think about the third adult taking care of you. We will call them Adult #3. Who is Adult #3?</p> <ul style="list-style-type: none"> <input type="radio"/> Mother <input type="radio"/> Second mother <input type="radio"/> Stepmother <input type="radio"/> Foster mother <input type="radio"/> Grandmother or female relative <input type="radio"/> Other female adult (Please specify: _____) <input type="radio"/> Father <input type="radio"/> Second father <input type="radio"/> Stepfather <input type="radio"/> Foster father <input type="radio"/> Grandfather or male relative <input type="radio"/> Other male adult (Please specify: _____) <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.

2019 Operational Grade 4 Extended Student Questionnaire (ESQ) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
N/A	<p style="text-align: right; font-size: small;">V1863795</p> <p>Think about the fourth adult taking care of you. We will call them Adult #4. Who is Adult #4?</p> <p><input type="radio"/> Mother</p> <p><input type="radio"/> Second mother</p> <p><input type="radio"/> Stepmother</p> <p><input type="radio"/> Foster mother</p> <p><input type="radio"/> Grandmother or female relative</p> <p><input type="radio"/> Other female adult (Please specify: _____)</p> <p><input type="radio"/> Father</p> <p><input type="radio"/> Second father</p> <p><input type="radio"/> Stepfather</p> <p><input type="radio"/> Foster father</p> <p><input type="radio"/> Grandfather or male relative</p> <p><input type="radio"/> Other male adult (Please specify: _____)</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socioeconomic status and household composition.

2019 Operational Grade 4 Extended Student Questionnaire (ESQ) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
N/A	<p style="text-align: right;"><small>V1863863</small></p> <p>In the last month, has your mother worked for pay?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input type="radio"/> I don't know.</p> <p>Issue: Socioeconomic Status</p>	A	<p>This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.</p> <p>Please note that this item includes the caregiver title provided by the respondent in a prior item. Possible answers include: mother, second mother, stepmother, foster mother, grandmother or female relative , the female adult taking care of you, father, second father, stepfather, foster father, grandfather or male relative, the male adult taking care of you</p>

2019 Operational Grade 4 Extended Student Questionnaire (ESQ) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
N/A	<p style="text-align: right;"><small>V18863907</small></p> <p>In the last month, did your mother work at one job, or did this adult work at two or more jobs?</p> <p>Ⓐ One job Ⓑ Two or more jobs Ⓒ I don't know.</p> <p>Issue: Socioeconomic Status</p>	A	<p>This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.</p> <p>Please note that this item includes the caregiver title provided by the respondent in a prior item. Possible answers include: your mother, your second mother, your stepmother, your foster mother, your grandmother or female relative , the female adult taking care of you, your father, your second father, your stepfather, your foster father, your grandfather or male relative, the male adult taking care of you</p>

Appendix K-1bd: Operational Grade 4 ESQ

1. In the last month, how many different homes have you been living in? (If you have moved in the last month, **do not** count the home where you used to live.)
- Ⓐ Zero homes
 - Ⓑ One home
 - Ⓒ Two homes
 - Ⓓ Three or more homes

2. Think about all the people who live with you in your home. Not including you, how many children 17 years or younger live with you?
- Ⓐ 0
 - Ⓑ 1
 - Ⓒ 2
 - Ⓓ More than 2

3. How many adults 18 years and older live with you?
- Ⓐ 1
 - Ⓑ 2
 - Ⓒ More than 2

4. You said you live in more than one home. Think about all the people who live with you in one of these homes (you can tell us about up to two homes). We will call it Home #1. Not including you, how many children 17 years or younger live with you in Home #1?
- Ⓐ 0
 - Ⓑ 1
 - Ⓒ 2
 - Ⓓ More than 2

5. How many adults 18 years and older live with you in Home #1?

- Ⓐ 1
- Ⓑ 2
- Ⓒ More than 2

6. You have told us about the people in one of your homes. Now think about all the people who live with you in your other home. We will call it Home #2. Not including you, how many children 17 years or younger live with you in Home #2?

- Ⓐ 0
- Ⓑ 1
- Ⓒ 2
- Ⓓ More than 2

7. How many adults 18 years and older live with you in Home #2?

- Ⓐ 1
- Ⓑ 2
- Ⓒ More than 2

8. Now think about **all** of the adults in **all** of your homes. How many of the adults that live with you are **taking care of you**?

- Ⓐ 1
- Ⓑ 2
- Ⓒ 3
- Ⓓ 4
- Ⓔ More than 4

9. You said one adult is taking care of you. Who is this adult?

- Ⓐ Mother
- Ⓑ Stepmother
- Ⓒ Foster mother
- Ⓓ Grandmother or female relative
- Ⓔ Other female adult (Please specify: _____)
- Ⓕ Father
- Ⓖ Stepfather
- Ⓗ Foster father
- Ⓘ Grandfather or male relative
- Ⓝ Other male adult (Please specify: _____)

10. You said more than one adult is taking care of you. Think about the first adult (you can tell us about up to four adults). We will call them Adult #1. Who is Adult #1?

- Ⓐ Mother
- Ⓑ Stepmother
- Ⓒ Foster mother
- Ⓓ Grandmother or female relative
- Ⓔ Other female adult (Please specify: _____)
- Ⓕ Father
- Ⓖ Stepfather
- Ⓗ Foster father
- Ⓘ Grandfather or male relative
- Ⓝ Other male adult (Please specify: _____)

11. Think about the second adult taking care of you. We will call them Adult #2. Who is Adult #2?

- Ⓐ Mother
- Ⓑ Second mother
- Ⓒ Stepmother
- Ⓓ Foster mother
- Ⓔ Grandmother or female relative
- Ⓕ Other female adult (Please specify: _____)
- Ⓖ Father
- Ⓗ Second father
- Ⓘ Stepfather
- Ⓣ Foster father
- Ⓚ Grandfather or male relative
- Ⓛ Other male adult (Please specify: _____)

12. Think about the third adult taking care of you. We will call them Adult #3. Who is Adult #3?

- Ⓐ Mother
- Ⓑ Second mother
- Ⓒ Stepmother
- Ⓓ Foster mother
- Ⓔ Grandmother or female relative
- Ⓕ Other female adult (Please specify: _____)
- Ⓖ Father
- Ⓗ Second father
- Ⓘ Stepfather
- Ⓝ Foster father
- Ⓚ Grandfather or male relative
- Ⓛ Other male adult (Please specify: _____)

13. Think about the fourth adult taking care of you. We will call them Adult #4. Who is Adult #4?

- A Mother
- B Second mother
- C Stepmother
- D Foster mother
- E Grandmother or female relative
- F Other female adult (Please specify: _____)
- G Father
- H Second father
- I Stepfather
- J Foster father
- K Grandfather or male relative
- L Other male adult (Please specify: _____)

14. In the last month, has **your mother** worked for pay?

- A Yes
- B No
- C I don't know.

15. In the last month, has **your second mother** worked for pay?

- A Yes
- B No
- C I don't know.

16. In the last month, has **your stepmother** worked for pay?

- A Yes
- B No
- C I don't know.

17. In the last month, has **your foster mother** worked for pay?

- A Yes
- B No
- C I don't know.

18. In the last month, has **your grandmother or female relative** worked for pay?

- A Yes
- B No
- C I don't know.

19. In the last month, has **the female adult taking care of you** worked for pay?

- A Yes
- B No
- C I don't know.

20. In the last month, has **your father** worked for pay?

- Ⓐ Yes
- Ⓑ No
- Ⓒ I don't know.

21. In the last month, has **your second father** worked for pay?

- Ⓐ Yes
- Ⓑ No
- Ⓒ I don't know

22. In the last month, has **your stepfather** worked for pay?

- Ⓐ Yes
- Ⓑ No
- Ⓒ I don't know.

23. In the last month, has **your foster father** worked for pay?

- Ⓐ Yes
- Ⓑ No
- Ⓒ I don't know.

24. In the last month, has **your grandfather or male relative** worked for pay?

- A Yes
- B No
- C I don't know

25. In the last month, has **the male adult taking care of you** worked for pay?

- A Yes
- B No
- C I don't know.

26. In the last month, did **your mother** work at one job, or did this adult work at two or more jobs?

- A One job
- B Two or more jobs
- C I don't know.

27. In the last month, did **your second mother** work at one job, or did this adult work at two or more jobs?

- A One job
- B Two or more jobs
- C I don't know.

28. In the last month, did **your stepmother** work at one job, or did this adult work at two or more jobs?
- Ⓐ One job
 - Ⓑ Two or more jobs
 - Ⓒ I don't know.

29. In the last month, did **your foster mother** work at one job, or did this adult work at two or more jobs?
- Ⓐ One job
 - Ⓑ Two or more jobs
 - Ⓒ I don't know.

30. In the last month, did **your grandmother or female relative** work at one job, or did this adult work at two or more jobs?
- Ⓐ One job
 - Ⓑ Two or more jobs
 - Ⓒ I don't know.

31. In the last month, did **the female adult taking care of you** work at one job, or did this adult work at two or more jobs?
- Ⓐ One job
 - Ⓑ Two or more jobs
 - Ⓒ I don't know.

32. In the last month, did **your father** work at one job, or did this adult work at two or more jobs?
- Ⓐ One job
 - Ⓑ Two or more jobs
 - Ⓒ I don't know.

33. In the last month, did **your second father** work at one job, or did this adult work at two or more jobs?
- Ⓐ One job
 - Ⓑ Two or more jobs
 - Ⓒ I don't know.

34. In the last month, did **your stepfather** work at one job, or did this adult work at two or more jobs?
- Ⓐ One job
 - Ⓑ Two or more jobs
 - Ⓒ I don't know.

35. In the last month, did **your foster father** work at one job, or did this adult work at two or more jobs?
- Ⓐ One job
 - Ⓑ Two or more jobs
 - Ⓒ I don't know.

36. In the last month, did **your grandfather or male relative** work at one job, or did this adult work at two or more jobs?
- Ⓐ One job
 - Ⓑ Two or more jobs
 - Ⓒ I don't know.

37. In the last month, did **the male adult taking care of you** work at one job, or did this adult work at two or more jobs?
- Ⓐ One job
 - Ⓑ Two or more jobs
 - Ⓒ I don't know.

Appendix K-1be: Summary of Changes Operational Grade 8 ESQ

2019 Operational Grade 8 Extended Student Questionnaire (ESQ) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
N/A	<p style="text-align: right; font-size: small;">VH863709</p> <p>In the last month, how many different homes have you been living in? (If you have moved in the last month, do not count the home where you used to live.)</p> <p>Ⓐ Zero homes Ⓑ One home Ⓒ Two homes Ⓓ Three or more homes</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.
N/A	<p style="text-align: right; font-size: small;">VH894192</p> <p>Think about all the people who live with you in your home. Not including you, how many children 17 years or younger live with you?</p> <p>Ⓐ 0 Ⓑ 1 Ⓒ 2 Ⓓ More than 2</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.
N/A	<p style="text-align: right; font-size: small;">VH894196</p> <p>How many adults 18 years and older live with you?</p> <p>Ⓐ 1 Ⓑ 2 Ⓒ More than 2</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.
N/A	<p style="text-align: right; font-size: small;">VH894198</p> <p>You said you live in more than one home. Think about all the people who live with you in one of these homes (you can tell us about up to two homes). We will call it Home #1. Not including you, how many children 17 years or younger live with you in Home #1?</p> <p>Ⓐ 0 Ⓑ 1 Ⓒ 2 Ⓓ More than 2</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.

2019 Operational Grade 8 Extended Student Questionnaire (ESQ) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
N/A	<p style="text-align: right; font-size: small;">VH894202</p> <p>How many adults 18 years and older live with you in Home #1?</p> <p>Ⓐ 1 Ⓑ 2 Ⓒ More than 2</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.
N/A	<p style="text-align: right; font-size: small;">VH894204</p> <p>You have told us about the people in one of your homes. Now think about all the people who live with you in your other home. We will call it Home #2. Not including you, how many children 17 years or younger live with you in Home #2?</p> <p>Ⓐ 0 Ⓑ 1 Ⓒ 2 Ⓓ More than 2</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.
N/A	<p style="text-align: right; font-size: small;">VH894209</p> <p>How many adults 18 years and older live with you in Home #2?</p> <p>Ⓐ 1 Ⓑ 2 Ⓒ More than 2</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.
N/A	<p style="text-align: right; font-size: small;">VH863033</p> <p>Now think about all of the adults in all of your homes. How many of the adults that live with you are taking care of you?</p> <p>Ⓐ 1 Ⓑ 2 Ⓒ 3 Ⓓ 4 Ⓔ More than 4</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.

2019 Operational Grade 8 Extended Student Questionnaire (ESQ) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
N/A	<p style="text-align: right;"><small>VH863771</small></p> <p>You said one adult is taking care of you. Who is this adult?</p> <p><input type="radio"/> Mother</p> <p><input type="radio"/> Stepmother</p> <p><input type="radio"/> Foster mother</p> <p><input type="radio"/> Grandmother or female relative</p> <p><input type="radio"/> Other female adult (Please specify: _____)</p> <p><input type="radio"/> Father</p> <p><input type="radio"/> Stepfather</p> <p><input type="radio"/> Foster father</p> <p><input type="radio"/> Grandfather or male relative</p> <p><input type="radio"/> Other male adult (Please specify: _____)</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.
N/A	<p style="text-align: right;"><small>VH863781</small></p> <p>You said more than one adult is taking care of you. Think about the first adult (you can tell us about up to four adults). We will call them Adult #1. Who is Adult #1?</p> <p><input type="radio"/> Mother</p> <p><input type="radio"/> Stepmother</p> <p><input type="radio"/> Foster mother</p> <p><input type="radio"/> Grandmother or female relative</p> <p><input type="radio"/> Other female adult (Please specify: _____)</p> <p><input type="radio"/> Father</p> <p><input type="radio"/> Stepfather</p> <p><input type="radio"/> Foster father</p> <p><input type="radio"/> Grandfather or male relative</p> <p><input type="radio"/> Other male adult (Please specify: _____)</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.

2019 Operational Grade 8 Extended Student Questionnaire (ESQ) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
N/A	<p style="text-align: right;"><small>VH863784</small></p> <p>Think about the second adult taking care of you. We will call them Adult #2. Who is Adult #2?</p> <p><input type="radio"/> Mother</p> <p><input type="radio"/> Second mother</p> <p><input type="radio"/> Stepmother</p> <p><input type="radio"/> Foster mother</p> <p><input type="radio"/> Grandmother or female relative</p> <p><input type="radio"/> Other female adult (Please specify: _____)</p> <p><input type="radio"/> Father</p> <p><input type="radio"/> Second father</p> <p><input type="radio"/> Stepfather</p> <p><input type="radio"/> Foster father</p> <p><input type="radio"/> Grandfather or male relative</p> <p><input type="radio"/> Other male adult (Please specify: _____)</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.
N/A	<p style="text-align: right;"><small>VH863791</small></p> <p>Think about the third adult taking care of you. We will call them Adult #3. Who is Adult #3?</p> <p><input type="radio"/> Mother</p> <p><input type="radio"/> Second mother</p> <p><input type="radio"/> Stepmother</p> <p><input type="radio"/> Foster mother</p> <p><input type="radio"/> Grandmother or female relative</p> <p><input type="radio"/> Other female adult (Please specify: _____)</p> <p><input type="radio"/> Father</p> <p><input type="radio"/> Second father</p> <p><input type="radio"/> Stepfather</p> <p><input type="radio"/> Foster father</p> <p><input type="radio"/> Grandfather or male relative</p> <p><input type="radio"/> Other male adult (Please specify: _____)</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.

2019 Operational Grade 8 Extended Student Questionnaire (ESQ) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
N/A	<p style="text-align: right;"><small>VH863795</small></p> <p>Think about the fourth adult taking care of you. We will call them Adult #4. Who is Adult #4?</p> <p><input type="radio"/> Mother</p> <p><input type="radio"/> Second mother</p> <p><input type="radio"/> Stepmother</p> <p><input type="radio"/> Foster mother</p> <p><input type="radio"/> Grandmother or female relative</p> <p><input type="radio"/> Other female adult (Please specify: _____)</p> <p><input type="radio"/> Father</p> <p><input type="radio"/> Second father</p> <p><input type="radio"/> Stepfather</p> <p><input type="radio"/> Foster father</p> <p><input type="radio"/> Grandfather or male relative</p> <p><input type="radio"/> Other male adult (Please specify: _____)</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socioeconomic status and household composition.

2019 Operational Grade 8 Extended Student Questionnaire (ESQ) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
N/A	<p style="text-align: right;"><small>VB863810</small></p> <p>How far in school did your mother go?</p> <ul style="list-style-type: none"> <input type="radio"/> She did not finish high school. <input type="radio"/> She graduated from high school or has a high school degree. <input type="radio"/> She had some college but did not graduate. <input type="radio"/> She graduated from college. <input type="radio"/> I don't know. <p>Issue: Socioeconomic Status</p>	A	<p>This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.</p> <p>Please note that this item includes the caregiver title provided by the respondent in a prior item. Possible answers include: your mother / your second mother / your stepmother / your foster mother / your grandmother or female relative / the female adult taking care of you / your father / your second father / your stepfather / your foster father / your grandfather or male relative / the male adult taking care of you</p>

2019 Operational Grade 8 Extended Student Questionnaire (ESQ) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
N/A	<p style="text-align: right;"><small>V1863863</small></p> <p>In the last month, has your mother worked for pay?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input type="radio"/> I don't know.</p> <p>Issue: Socioeconomic Status</p>	A	<p>This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.</p> <p>Please note that this item includes the caregiver title provided by the respondent in a prior item. Possible answers include: mother, second mother, stepmother, foster mother, grandmother or female relative , the female adult taking care of you, father, second father, stepfather, foster father, grandfather or male relative, the male adult taking care of you</p>

2019 Operational Grade 8 Extended Student Questionnaire (ESQ) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
N/A	<p style="text-align: right;"><small>V18863907</small></p> <p>In the last month, did your mother work at one job, or did this adult work at two or more jobs?</p> <p>Ⓐ One job Ⓑ Two or more jobs Ⓒ I don't know.</p> <p>Issue: Socioeconomic Status</p>	A	<p>This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.</p> <p>Please note that this item includes the caregiver title provided by the respondent in a prior item. Possible answers include: your mother, your second mother, your stepmother, your foster mother, your grandmother or female relative , the female adult taking care of you, your father, your second father, your stepfather, your foster father, your grandfather or male relative, the male adult taking care of you</p>

Appendix K-1bf: Operational Grade 8 ESQ

1. In the last month, how many different homes have you been living in? (If you have moved in the last month, **do not** count the home where you used to live.)
- Ⓐ Zero homes
 - Ⓑ One home
 - Ⓒ Two homes
 - Ⓓ Three or more homes

2. Think about all the people who live with you in your home. Not including you, how many children 17 years or younger live with you?
- Ⓐ 0
 - Ⓑ 1
 - Ⓒ 2
 - Ⓓ More than 2

3. How many adults 18 years and older live with you?
- Ⓐ 1
 - Ⓑ 2
 - Ⓒ More than 2

4. You said you live in more than one home. Think about all the people who live with you in one of these homes (you can tell us about up to two homes). We will call it Home #1. Not including you, how many children 17 years or younger live with you in Home #1?
- Ⓐ 0
 - Ⓑ 1
 - Ⓒ 2
 - Ⓓ More than 2

5. How many adults 18 years and older live with you in Home #1?

- Ⓐ 1
- Ⓑ 2
- Ⓒ More than 2

6. You have told us about the people in one of your homes. Now think about all the people who live with you in your other home. We will call it Home #2. Not including you, how many children 17 years or younger live with you in Home #2?

- Ⓐ 0
- Ⓑ 1
- Ⓒ 2
- Ⓓ More than 2

7. How many adults 18 years and older live with you in Home #2?

- Ⓐ 1
- Ⓑ 2
- Ⓒ More than 2

8. Now think about **all** of the adults in **all** of your homes. How many of the adults that live with you are **taking care of you**?

- Ⓐ 1
- Ⓑ 2
- Ⓒ 3
- Ⓓ 4
- Ⓔ More than 4

9. You said one adult is taking care of you. Who is this adult?

- Ⓐ Mother
- Ⓑ Stepmother
- Ⓒ Foster mother
- Ⓓ Grandmother or female relative
- Ⓔ Other female adult (Please specify: _____)
- Ⓕ Father
- Ⓖ Stepfather
- Ⓗ Foster father
- Ⓘ Grandfather or male relative
- Ⓣ Other male adult (Please specify: _____)

10. You said more than one adult is taking care of you. Think about the first adult (you can tell us about up to four adults). We will call them Adult #1. Who is Adult #1?

- Ⓐ Mother
- Ⓑ Stepmother
- Ⓒ Foster mother
- Ⓓ Grandmother or female relative
- Ⓔ Other female adult (Please specify: _____)
- Ⓕ Father
- Ⓖ Stepfather
- Ⓗ Foster father
- Ⓘ Grandfather or male relative
- Ⓣ Other male adult (Please specify: _____)

11. Think about the second adult taking care of you. We will call them Adult #2. Who is Adult #2?

- Ⓐ Mother
- Ⓑ Second mother
- Ⓒ Stepmother
- Ⓓ Foster mother
- Ⓔ Grandmother or female relative
- Ⓕ Other female adult (Please specify: _____)
- Ⓖ Father
- Ⓗ Second father
- Ⓘ Stepfather
- Ⓣ Foster father
- Ⓚ Grandfather or male relative
- Ⓛ Other male adult (Please specify: _____)

12. Think about the third adult taking care of you. We will call them Adult #3. Who is Adult #3?

- Ⓐ Mother
- Ⓑ Second mother
- Ⓒ Stepmother
- Ⓓ Foster mother
- Ⓔ Grandmother or female relative
- Ⓕ Other female adult (Please specify: _____)
- Ⓖ Father
- Ⓗ Second father
- Ⓘ Stepfather
- Ⓣ Foster father
- Ⓚ Grandfather or male relative
- Ⓛ Other male adult (Please specify: _____)

13. Think about the fourth adult taking care of you. We will call them Adult #4. Who is Adult #4?

- Ⓐ Mother
- Ⓑ Second mother
- Ⓒ Stepmother
- Ⓓ Foster mother
- Ⓔ Grandmother or female relative
- Ⓕ Other female adult (Please specify: _____)
- Ⓖ Father
- Ⓗ Second father
- Ⓘ Stepfather
- Ⓣ Foster father
- Ⓚ Grandfather or male relative
- Ⓛ Other male adult (Please specify: _____)

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

- Ⓐ She did not finish high school.
- Ⓑ She graduated from high school or has a high school degree.
- Ⓒ She had some college but did not graduate.
- Ⓓ She graduated from college.
- Ⓔ I don't know.

15. How far in school did **your second mother** go?

- Ⓐ She did not finish high school.
- Ⓑ She graduated from high school or has a high school degree.
- Ⓒ She had some college but did not graduate.
- Ⓓ She graduated from college.
- Ⓔ I don't know.

16. How far in school did **your stepmother** go?

- Ⓐ She did not finish high school.
- Ⓑ She graduated from high school or has a high school degree.
- Ⓒ She had some college but did not graduate.
- Ⓓ She graduated from college.
- Ⓔ I don't know.

17. How far in school did **your foster mother** go?

- Ⓐ She did not finish high school.
- Ⓑ She graduated from high school or has a high school degree.
- Ⓒ She had some college but did not graduate.
- Ⓓ She graduated from college.
- Ⓔ I don't know.

18. How far in school did **your grandmother or female relative** go?

- Ⓐ She did not finish high school.
- Ⓑ She graduated from high school or has a high school degree.
- Ⓒ She had some college but did not graduate.
- Ⓓ She graduated from college.
- Ⓔ I don't know.

19. How far in school did **the female adult taking care of you** go?

- Ⓐ She did not finish high school.
- Ⓑ She graduated from high school or has a high school degree.
- Ⓒ She had some college but did not graduate.
- Ⓓ She graduated from college.
- Ⓔ I don't know.

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

- Ⓐ He did not finish high school.
- Ⓑ He graduated from high school or has a high school degree.
- Ⓒ He had some college but did not graduate.
- Ⓓ He graduated from college.
- Ⓔ I don't know.

21. How far in school did **your second father** go?

- Ⓐ He did not finish high school.
- Ⓑ He graduated from high school or has a high school degree.
- Ⓒ He had some college but did not graduate.
- Ⓓ He graduated from college.
- Ⓔ I don't know.

22. How far in school did **your stepfather** go?

- Ⓐ He did not finish high school.
- Ⓑ He graduated from high school or has a high school degree.
- Ⓒ He had some college but did not graduate.
- Ⓓ He graduated from college.
- Ⓔ I don't know.

23. How far in school did **your foster father** go?

- Ⓐ He did not finish high school.
- Ⓑ He graduated from high school or has a high school degree.
- Ⓒ He had some college but did not graduate.
- Ⓓ He graduated from college.
- Ⓔ I don't know.

24. How far in school did **your grandfather or male relative** go?
- Ⓐ He did not finish high school.
 - Ⓑ He graduated from high school or has a high school degree.
 - Ⓒ He had some college but did not graduate.
 - Ⓓ He graduated from college.
 - Ⓔ I don't know.

25. How far in school did **the male adult taking care of you** go?
- Ⓐ He did not finish high school.
 - Ⓑ He graduated from high school or has a high school degree.
 - Ⓒ He had some college but did not graduate.
 - Ⓓ He graduated from college.
 - Ⓔ I don't know.

26. In the last month, has **your mother** worked for pay?
- Ⓐ Yes
 - Ⓑ No
 - Ⓒ I don't know.

27. In the last month, has **your second mother** worked for pay?
- Ⓐ Yes
 - Ⓑ No
 - Ⓒ I don't know.

28. In the last month, has **your stepmother** worked for pay?

- A Yes
- B No
- C I don't know.

29. In the last month, has **your foster mother** worked for pay?

- A Yes
- B No
- C I don't know.

30. In the last month, has **your grandmother or female relative** worked for pay?

- A Yes
- B No
- C I don't know.

31. In the last month, has **the female adult taking care of you** worked for pay?

- A Yes
- B No
- C I don't know.

32. In the last month, has **your father** worked for pay?

- A Yes
- B No
- C I don't know.

33. In the last month, has **your second father** worked for pay?

- A Yes
- B No
- C I don't know

34. In the last month, has **your stepfather** worked for pay?

- A Yes
- B No
- C I don't know.

35. In the last month, has **your foster father** worked for pay?

- A Yes
- B No
- C I don't know.

36. In the last month, has **your grandfather or male relative** worked for pay?

- (A) Yes
- (B) No
- (C) I don't know

37. In the last month, has **the male adult taking care of you** worked for pay?

- (A) Yes
- (B) No
- (C) I don't know.

38. In the last month, did **your mother** work at one job, or did this adult work at two or more jobs?

- (A) One job
- (B) Two or more jobs
- (C) I don't know.

39. In the last month, did **your second mother** work at one job, or did this adult work at two or more jobs?

- (A) One job
- (B) Two or more jobs
- (C) I don't know.

40. In the last month, did **your stepmother** work at one job, or did this adult work at two or more jobs?
- Ⓐ One job
 - Ⓑ Two or more jobs
 - Ⓒ I don't know.

41. In the last month, did **your foster mother** work at one job, or did this adult work at two or more jobs?
- Ⓐ One job
 - Ⓑ Two or more jobs
 - Ⓒ I don't know.

42. In the last month, did **your grandmother or female relative** work at one job, or did this adult work at two or more jobs?
- Ⓐ One job
 - Ⓑ Two or more jobs
 - Ⓒ I don't know.

43. In the last month, did **the female adult taking care of you** work at one job, or did this adult work at two or more jobs?
- Ⓐ One job
 - Ⓑ Two or more jobs
 - Ⓒ I don't know.

44. In the last month, did **your father** work at one job, or did this adult work at two or more jobs?
- Ⓐ One job
 - Ⓑ Two or more jobs
 - Ⓒ I don't know.

45. In the last month, did **your second father** work at one job, or did this adult work at two or more jobs?
- Ⓐ One job
 - Ⓑ Two or more jobs
 - Ⓒ I don't know.

46. In the last month, did **your stepfather** work at one job, or did this adult work at two or more jobs?
- Ⓐ One job
 - Ⓑ Two or more jobs
 - Ⓒ I don't know.

47. In the last month, did **your foster father** work at one job, or did this adult work at two or more jobs?
- Ⓐ One job
 - Ⓑ Two or more jobs
 - Ⓒ I don't know.

48. In the last month, did **your grandfather or male relative** work at one job, or did this adult work at two or more jobs?
- Ⓐ One job
 - Ⓑ Two or more jobs
 - Ⓒ I don't know.

49. In the last month, did **the male adult taking care of you** work at one job, or did this adult work at two or more jobs?
- Ⓐ One job
 - Ⓑ Two or more jobs
 - Ⓒ I don't know.

Appendix K-1bg: Summary of Changes Operational Grade 12 ESQ

2019 Operational Grade 12 Extended Student Questionnaire (ESQ) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
N/A	<p style="text-align: right;"><small>VH863709</small></p> <p>In the last month, how many different homes have you been living in? (If you have moved in the last month, do not count the home where you used to live.)</p> <p>Ⓐ Zero homes Ⓑ One home Ⓒ Two homes Ⓓ Three or more homes</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.
N/A	<p style="text-align: right;"><small>VH884192</small></p> <p>Think about all the people who live with you in your home. Not including you, how many children 17 years or younger live with you?</p> <p>Ⓐ 0 Ⓑ 1 Ⓒ 2 Ⓓ More than 2</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.
N/A	<p style="text-align: right;"><small>VH884194</small></p> <p>Not including you, how many adults 18 years and older live with you?</p> <p>Ⓐ 1 Ⓑ 2 Ⓒ More than 2</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.
N/A	<p style="text-align: right;"><small>VH894198</small></p> <p>You said you live in more than one home. Think about all the people who live with you in one of these homes (you can tell us about up to two homes). We will call it Home #1. Not including you, how many children 17 years or younger live with you in Home #1?</p> <p>Ⓐ 0 Ⓑ 1 Ⓒ 2 Ⓓ More than 2</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.

2019 Operational Grade 12 Extended Student Questionnaire (ESQ) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
N/A	<p style="text-align: right;"><small>VH894200</small></p> <p>Not including you, how many adults 18 years and older live with you in Home #1?</p> <p>Ⓐ 1 Ⓑ 2 Ⓒ More than 2</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.
N/A	<p style="text-align: right;"><small>VH894204</small></p> <p>You have told us about the people in one of your homes. Now think about all the people who live with you in your other home. We will call it Home #2. Not including you, how many children 17 years or younger live with you in Home #2?</p> <p>Ⓐ 0 Ⓑ 1 Ⓒ 2 Ⓓ More than 2</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.
N/A	<p style="text-align: right;"><small>VH894207</small></p> <p>Not including you, how many adults 18 years and older live with you in Home #2?</p> <p>Ⓐ 1 Ⓑ 2 Ⓒ More than 2</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.
N/A	<p style="text-align: right;"><small>VH863933</small></p> <p>Now think about all of the adults in all of your homes. How many of the adults that live with you are taking care of you?</p> <p>Ⓐ 1 Ⓑ 2 Ⓒ 3 Ⓓ 4 Ⓔ More than 4</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.

2019 Operational Grade 12 Extended Student Questionnaire (ESQ) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
N/A	<p style="text-align: right;"><small>VH863771</small></p> <p>You said one adult is taking care of you. Who is this adult?</p> <p><input type="radio"/> Mother</p> <p><input type="radio"/> Stepmother</p> <p><input type="radio"/> Foster mother</p> <p><input type="radio"/> Grandmother or female relative</p> <p><input type="radio"/> Other female adult (Please specify: _____)</p> <p><input type="radio"/> Father</p> <p><input type="radio"/> Stepfather</p> <p><input type="radio"/> Foster father</p> <p><input type="radio"/> Grandfather or male relative</p> <p><input type="radio"/> Other male adult (Please specify: _____)</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.
N/A	<p style="text-align: right;"><small>VH863781</small></p> <p>You said more than one adult is taking care of you. Think about the first adult (you can tell us about up to four adults). We will call them Adult #1. Who is Adult #1?</p> <p><input type="radio"/> Mother</p> <p><input type="radio"/> Stepmother</p> <p><input type="radio"/> Foster mother</p> <p><input type="radio"/> Grandmother or female relative</p> <p><input type="radio"/> Other female adult (Please specify: _____)</p> <p><input type="radio"/> Father</p> <p><input type="radio"/> Stepfather</p> <p><input type="radio"/> Foster father</p> <p><input type="radio"/> Grandfather or male relative</p> <p><input type="radio"/> Other male adult (Please specify: _____)</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.

2019 Operational Grade 12 Extended Student Questionnaire (ESQ) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
N/A	<p style="text-align: right;"><small>VH863784</small></p> <p>Think about the second adult taking care of you. We will call them Adult #2. Who is Adult #2?</p> <p><input type="radio"/> Mother</p> <p><input type="radio"/> Second mother</p> <p><input type="radio"/> Stepmother</p> <p><input type="radio"/> Foster mother</p> <p><input type="radio"/> Grandmother or female relative</p> <p><input type="radio"/> Other female adult (Please specify: _____)</p> <p><input type="radio"/> Father</p> <p><input type="radio"/> Second father</p> <p><input type="radio"/> Stepfather</p> <p><input type="radio"/> Foster father</p> <p><input type="radio"/> Grandfather or male relative</p> <p><input type="radio"/> Other male adult (Please specify: _____)</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.
N/A	<p style="text-align: right;"><small>VH863791</small></p> <p>Think about the third adult taking care of you. We will call them Adult #3. Who is Adult #3?</p> <p><input type="radio"/> Mother</p> <p><input type="radio"/> Second mother</p> <p><input type="radio"/> Stepmother</p> <p><input type="radio"/> Foster mother</p> <p><input type="radio"/> Grandmother or female relative</p> <p><input type="radio"/> Other female adult (Please specify: _____)</p> <p><input type="radio"/> Father</p> <p><input type="radio"/> Second father</p> <p><input type="radio"/> Stepfather</p> <p><input type="radio"/> Foster father</p> <p><input type="radio"/> Grandfather or male relative</p> <p><input type="radio"/> Other male adult (Please specify: _____)</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.

2019 Operational Grade 12 Extended Student Questionnaire (ESQ) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
N/A	<p style="text-align: right;"><small>VH863795</small></p> <p>Think about the fourth adult taking care of you. We will call them Adult #4. Who is Adult #4?</p> <p><input type="radio"/> Mother</p> <p><input type="radio"/> Second mother</p> <p><input type="radio"/> Stepmother</p> <p><input type="radio"/> Foster mother</p> <p><input type="radio"/> Grandmother or female relative</p> <p><input type="radio"/> Other female adult (Please specify: _____)</p> <p><input type="radio"/> Father</p> <p><input type="radio"/> Second father</p> <p><input type="radio"/> Stepfather</p> <p><input type="radio"/> Foster father</p> <p><input type="radio"/> Grandfather or male relative</p> <p><input type="radio"/> Other male adult (Please specify: _____)</p> <p>Issue: Socioeconomic Status</p>	A	This item was added as part of the ESQ special study for enhanced measurement of socioeconomic status and household composition.

2019 Operational Grade 12 Extended Student Questionnaire (ESQ) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
N/A	<p style="text-align: right;"><small>VB863810</small></p> <p>How far in school did your mother go?</p> <ul style="list-style-type: none"> <input type="radio"/> She did not finish high school. <input type="radio"/> She graduated from high school or has a high school degree. <input type="radio"/> She had some college but did not graduate. <input type="radio"/> She graduated from college. <input type="radio"/> I don't know. <p>Issue: Socioeconomic Status</p>	A	<p>This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.</p> <p>Please note that this item includes the caregiver title provided by the respondent in a prior item. Possible answers include: your mother / your second mother / your stepmother / your foster mother / your grandmother or female relative / the female adult taking care of you / your father / your second father / your stepfather / your foster father / your grandfather or male relative / the male adult taking care of you</p>

2019 Operational Grade 12 Extended Student Questionnaire (ESQ) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
	<p style="text-align: right;"><small>V1863863</small></p> <p>In the last month, has your mother worked for pay?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input type="radio"/> I don't know.</p> <p>Issue: Socioeconomic Status</p>	A	<p>This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.</p> <p>Please note that this item includes the caregiver title provided by the respondent in a prior item. Possible answers include: mother, second mother, stepmother, foster mother, grandmother or female relative , the female adult taking care of you, father, second father, stepfather, foster father, grandfather or male relative, the male adult taking care of you</p>

2019 Operational Grade 12 Extended Student Questionnaire (ESQ) Student

Previous item	2019 item	D/A/ R/NC+	Rationale
N/A	<p style="text-align: right;"><small>V18863907</small></p> <p>In the last month, did your mother work at one job, or did this adult work at two or more jobs?</p> <p>Ⓐ One job Ⓑ Two or more jobs Ⓒ I don't know.</p> <p>Issue: Socioeconomic Status</p>	A	<p>This item was added as part of the ESQ special study for enhanced measurement of socio-economic status and household composition.</p> <p>Please note that this item includes the caregiver title provided by the respondent in a prior item. Possible answers include: your mother, your second mother, your stepmother, your foster mother, your grandmother or female relative , the female adult taking care of you, your father, your second father, your stepfather, your foster father, your grandfather or male relative, the male adult taking care of you</p>

Appendix K-1bh: Operational Grade 12 ESQ

1. In the last month, how many different homes have you been living in? (If you have moved in the last month, **do not** count the home where you used to live.)
- Ⓐ Zero homes
 - Ⓑ One home
 - Ⓒ Two homes
 - Ⓓ Three or more homes

2. Think about all the people who live with you in your home. Not including you, how many children 17 years or younger live with you?
- Ⓐ 0
 - Ⓑ 1
 - Ⓒ 2
 - Ⓓ More than 2

3. Not including you, how many adults 18 years and older live with you?
- Ⓐ 1
 - Ⓑ 2
 - Ⓒ More than 2

4. You said you live in more than one home. Think about all the people who live with you in one of these homes (you can tell us about up to two homes). We will call it Home #1. Not including you, how many children 17 years or younger live with you in Home #1?
- Ⓐ 0
 - Ⓑ 1
 - Ⓒ 2
 - Ⓓ More than 2

5. Not including you, how many adults 18 years and older live with you in Home #1?

- Ⓐ 1
- Ⓑ 2
- Ⓒ More than 2

6. You have told us about the people in one of your homes. Now think about all the people who live with you in your other home. We will call it Home #2. Not including you, how many children 17 years or younger live with you in Home #2?

- Ⓐ 0
- Ⓑ 1
- Ⓒ 2
- Ⓓ More than 2

7. Not including you, how many adults 18 years and older live with you in Home #2?

- Ⓐ 1
- Ⓑ 2
- Ⓒ More than 2

8. Now think about **all** of the adults in **all** of your homes. How many of the adults that live with you are **taking care of you**?

- Ⓐ 1
- Ⓑ 2
- Ⓒ 3
- Ⓓ 4
- Ⓔ More than 4

9. You said one adult is taking care of you. Who is this adult?

- Ⓐ Mother
- Ⓑ Stepmother
- Ⓒ Foster mother
- Ⓓ Grandmother or female relative
- Ⓔ Other female adult (Please specify: _____)
- Ⓕ Father
- Ⓖ Stepfather
- Ⓗ Foster father
- Ⓘ Grandfather or male relative
- Ⓣ Other male adult (Please specify: _____)

10. You said more than one adult is taking care of you. Think about the first adult (you can tell us about up to four adults). We will call them Adult #1. Who is Adult #1?

- Ⓐ Mother
- Ⓑ Stepmother
- Ⓒ Foster mother
- Ⓓ Grandmother or female relative
- Ⓔ Other female adult (Please specify: _____)
- Ⓕ Father
- Ⓖ Stepfather
- Ⓗ Foster father
- Ⓘ Grandfather or male relative
- Ⓣ Other male adult (Please specify: _____)

11. Think about the second adult taking care of you. We will call them Adult #2. Who is Adult #2?

- Ⓐ Mother
- Ⓑ Second mother
- Ⓒ Stepmother
- Ⓓ Foster mother
- Ⓔ Grandmother or female relative
- Ⓕ Other female adult (Please specify: _____)
- Ⓖ Father
- Ⓗ Second father
- Ⓘ Stepfather
- Ⓧ Foster father
- Ⓨ Grandfather or male relative
- Ⓩ Other male adult (Please specify: _____)

12. Think about the third adult taking care of you. We will call them Adult #3. Who is Adult #3?

- Ⓐ Mother
- Ⓑ Second mother
- Ⓒ Stepmother
- Ⓓ Foster mother
- Ⓔ Grandmother or female relative
- Ⓕ Other female adult (Please specify: _____)
- Ⓖ Father
- Ⓗ Second father
- Ⓘ Stepfather
- Ⓣ Foster father
- Ⓚ Grandfather or male relative
- Ⓛ Other male adult (Please specify: _____)

13. Think about the fourth adult taking care of you. We will call them Adult #4. Who is Adult #4?

- Ⓐ Mother
- Ⓑ Second mother
- Ⓒ Stepmother
- Ⓓ Foster mother
- Ⓔ Grandmother or female relative
- Ⓕ Other female adult (Please specify: _____)
- Ⓖ Father
- Ⓗ Second father
- Ⓘ Stepfather
- Ⓣ Foster father
- Ⓚ Grandfather or male relative
- Ⓛ Other male adult (Please specify: _____)

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

- Ⓐ She did not finish high school.
- Ⓑ She graduated from high school or has a high school degree.
- Ⓒ She had some college but did not graduate.
- Ⓓ She graduated from college.
- Ⓔ I don't know.

15. How far in school did **your second mother** go?

- Ⓐ She did not finish high school.
- Ⓑ She graduated from high school or has a high school degree.
- Ⓒ She had some college but did not graduate.
- Ⓓ She graduated from college.
- Ⓔ I don't know.

16. How far in school did **your stepmother** go?

- Ⓐ She did not finish high school.
- Ⓑ She graduated from high school or has a high school degree.
- Ⓒ She had some college but did not graduate.
- Ⓓ She graduated from college.
- Ⓔ I don't know.

17. How far in school did **your foster mother** go?

- Ⓐ She did not finish high school.
- Ⓑ She graduated from high school or has a high school degree.
- Ⓒ She had some college but did not graduate.
- Ⓓ She graduated from college.
- Ⓔ I don't know.

18. How far in school did **your grandmother or female relative** go?
- Ⓐ She did not finish high school.
 - Ⓑ She graduated from high school or has a high school degree.
 - Ⓒ She had some college but did not graduate.
 - Ⓓ She graduated from college.
 - Ⓔ I don't know.

19. How far in school did **the female adult taking care of you** go?
- Ⓐ She did not finish high school.
 - Ⓑ She graduated from high school or has a high school degree.
 - Ⓒ She had some college but did not graduate.
 - Ⓓ She graduated from college.
 - Ⓔ I don't know.

20. How far in school did **your father** go?
- Ⓐ He did not finish high school.
 - Ⓑ He graduated from high school or has a high school degree.
 - Ⓒ He had some college but did not graduate.
 - Ⓓ He graduated from college.
 - Ⓔ I don't know.

21. How far in school did **your second father** go?

- Ⓐ He did not finish high school.
- Ⓑ He graduated from high school or has a high school degree.
- Ⓒ He had some college but did not graduate.
- Ⓓ He graduated from college.
- Ⓔ I don't know.

22. How far in school did **your stepfather** go?

- Ⓐ He did not finish high school.
- Ⓑ He graduated from high school or has a high school degree.
- Ⓒ He had some college but did not graduate.
- Ⓓ He graduated from college.
- Ⓔ I don't know.

23. How far in school did **your foster father** go?

- Ⓐ He did not finish high school.
- Ⓑ He graduated from high school or has a high school degree.
- Ⓒ He had some college but did not graduate.
- Ⓓ He graduated from college.
- Ⓔ I don't know.

24. How far in school did **your grandfather or male relative** go?
- Ⓐ He did not finish high school.
 - Ⓑ He graduated from high school or has a high school degree.
 - Ⓒ He had some college but did not graduate.
 - Ⓓ He graduated from college.
 - Ⓔ I don't know.

25. How far in school did **the male adult taking care of you** go?
- Ⓐ He did not finish high school.
 - Ⓑ He graduated from high school or has a high school degree.
 - Ⓒ He had some college but did not graduate.
 - Ⓓ He graduated from college.
 - Ⓔ I don't know.

26. In the last month, has **your mother** worked for pay?
- Ⓐ Yes
 - Ⓑ No
 - Ⓒ I don't know.

27. In the last month, has **your second mother** worked for pay?
- Ⓐ Yes
 - Ⓑ No
 - Ⓒ I don't know.

28. In the last month, has **your stepmother** worked for pay?

- A Yes
- B No
- C I don't know.

29. In the last month, has **your foster mother** worked for pay?

- A Yes
- B No
- C I don't know.

30. In the last month, has **your grandmother or female relative** worked for pay?

- A Yes
- B No
- C I don't know.

31. In the last month, has **the female adult taking care of you** worked for pay?

- A Yes
- B No
- C I don't know.

32. In the last month, has **your father** worked for pay?

- Ⓐ Yes
- Ⓑ No
- Ⓒ I don't know.

33. In the last month, has **your second father** worked for pay?

- Ⓐ Yes
- Ⓑ No
- Ⓒ I don't know

34. In the last month, has **your stepfather** worked for pay?

- Ⓐ Yes
- Ⓑ No
- Ⓒ I don't know.

35. In the last month, has **your foster father** worked for pay?

- Ⓐ Yes
- Ⓑ No
- Ⓒ I don't know.

36. In the last month, has **your grandfather or male relative** worked for pay?

- (A) Yes
- (B) No
- (C) I don't know

37. In the last month, has **the male adult taking care of you** worked for pay?

- (A) Yes
- (B) No
- (C) I don't know.

38. In the last month, did **your mother** work at one job, or did this adult work at two or more jobs?

- (A) One job
- (B) Two or more jobs
- (C) I don't know.

39. In the last month, did **your second mother** work at one job, or did this adult work at two or more jobs?

- (A) One job
- (B) Two or more jobs
- (C) I don't know.

40. In the last month, did **your stepmother** work at one job, or did this adult work at two or more jobs?
- Ⓐ One job
 - Ⓑ Two or more jobs
 - Ⓒ I don't know.

41. In the last month, did **your foster mother** work at one job, or did this adult work at two or more jobs?
- Ⓐ One job
 - Ⓑ Two or more jobs
 - Ⓒ I don't know.

42. In the last month, did **your grandmother or female relative** work at one job, or did this adult work at two or more jobs?
- Ⓐ One job
 - Ⓑ Two or more jobs
 - Ⓒ I don't know.

43. In the last month, did **the female adult taking care of you** work at one job, or did this adult work at two or more jobs?
- Ⓐ One job
 - Ⓑ Two or more jobs
 - Ⓒ I don't know.

44. In the last month, did **your father** work at one job, or did this adult work at two or more jobs?
- Ⓐ One job
 - Ⓑ Two or more jobs
 - Ⓒ I don't know.

45. In the last month, did **your second father** work at one job, or did this adult work at two or more jobs?
- Ⓐ One job
 - Ⓑ Two or more jobs
 - Ⓒ I don't know.

46. In the last month, did **your stepfather** work at one job, or did this adult work at two or more jobs?
- Ⓐ One job
 - Ⓑ Two or more jobs
 - Ⓒ I don't know.

47. In the last month, did **your foster father** work at one job, or did this adult work at two or more jobs?
- Ⓐ One job
 - Ⓑ Two or more jobs
 - Ⓒ I don't know.

48. In the last month, did **your grandfather or male relative** work at one job, or did this adult work at two or more jobs?
- Ⓐ One job
 - Ⓑ Two or more jobs
 - Ⓒ I don't know.

49. In the last month, did **the male adult taking care of you** work at one job, or did this adult work at two or more jobs?
- Ⓐ One job
 - Ⓑ Two or more jobs
 - Ⓒ I don't know.