



# Mathematics School Questionnaire

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**2018  
Grade 12  
(Pilot)**

**Pilot**

1. Beginning with ninth grade, how many years (or Carnegie-unit equivalents) of course work in mathematics does your school or district require for graduation?
- Ⓐ Less than two years
  - Ⓑ Two years
  - Ⓒ Three years
  - Ⓓ Four years
  - Ⓔ More than four years

2. Does your school offer online mathematics courses for credit?
- Ⓐ Yes
  - Ⓑ No

Pilot

3. Are courses of at least one semester in length taught in your school in each of the following subjects? Select **one** circle in each row.

	Yes	No	
a. Pre-calculus or introductory analysis	<input type="radio"/>	<input type="radio"/>	VH241006
b. Integrated mathematics 3 (third year of a multi-year course)	<input type="radio"/>	<input type="radio"/>	VH241017
c. Integrated mathematics 4 (fourth year of a multi-year course)	<input type="radio"/>	<input type="radio"/>	VH241018
d. Trigonometry	<input type="radio"/>	<input type="radio"/>	VH240991
e. International Baccalaureate® (IB) Mathematics	<input type="radio"/>	<input type="radio"/>	VH241008
f. Advanced Placement (AP®) Calculus AB	<input type="radio"/>	<input type="radio"/>	VH241009
g. Advanced Placement (AP) Calculus BC	<input type="radio"/>	<input type="radio"/>	VH241010
h. Calculus (other than Advanced Placement [AP] Calculus)	<input type="radio"/>	<input type="radio"/>	VH241007
i. Advanced Placement (AP) Statistics	<input type="radio"/>	<input type="radio"/>	VH241011
j. Probability and/or statistics (other than Advanced Placement [AP] Statistics)	<input type="radio"/>	<input type="radio"/>	VH241012
k. Advanced Placement (AP) Computer Science A	<input type="radio"/>	<input type="radio"/>	VH796763
l. Computer science (other than Advanced Placement [AP] Computer Science)	<input type="radio"/>	<input type="radio"/>	VH241016

4. Which of the following mathematics courses are required for high school graduation? Select **one** circle in each row.

	Yes	No	
a. Algebra I	<input type="radio"/> A	<input type="radio"/> B	VH241022
b. Geometry	<input type="radio"/> A	<input type="radio"/> B	VH241023
c. Algebra II	<input type="radio"/> A	<input type="radio"/> B	VH241024
d. Statistics/Probability	<input type="radio"/> A	<input type="radio"/> B	VH241025
e. Integrated mathematics 1 (first year of a multi-year course)	<input type="radio"/> A	<input type="radio"/> B	VH241032
f. Integrated mathematics 2 (second year of a multi-year course)	<input type="radio"/> A	<input type="radio"/> B	VH241033
g. Integrated mathematics 3 (third year of a multi-year course)	<input type="radio"/> A	<input type="radio"/> B	VH241034
h. Integrated mathematics 4 (fourth year of a multi-year course)	<input type="radio"/> A	<input type="radio"/> B	VH241028
i. Other mathematics course (Please specify): _____	<input type="radio"/> A	<input type="radio"/> B	VH241031

5. In your school, approximately what percentage of twelfth-grade students enroll in more than one mathematics class in a year (including summer school or two-block classes) **for remediation or to catch up a grade level**? Do not include students who receive additional mathematics instruction as part of special education or because of IEP provisions.

- A 0–10%
- B 11–20%
- C 21–30%
- D 31–40%
- E 41–50%
- F More than 50%

6. This year, how many teachers are teaching mathematics in your school? Enter the number of teachers.

7. In this school year, what percentage of students have gone to other schools (neighboring high school or college) to receive mathematics instruction?

- Ⓐ 0–10%
- Ⓑ 11–20%
- Ⓒ 21–30%
- Ⓓ 31–40%
- Ⓔ 41–50%
- Ⓕ More than 50%

8. To what extent does your school provide up-to-date technology resources for mathematics teaching and learning?

- Ⓐ Not at all
- Ⓑ Small extent
- Ⓒ Moderate extent
- Ⓓ Large extent

Pilot

**Questions 9 and 10** ask about mathematics coaches.

*Mathematics resource teachers* provide additional instructional support to students and have special expertise in assessing and diagnosing students' mathematics strengths and needs to assist with learning and understanding.

*Mathematics coaches* work with teachers to help them implement and use strategies to improve their students' ability to use mathematics in their classes.

In some schools, a single person may serve in both roles regardless of the title they have. Please answer questions 9 and 10 based on the roles as defined in this paragraph.

VH240080

9. Is there a mathematics coach available (full- or part-time) to twelfth-grade teachers at your school?
- Ⓐ Yes, available full-time to twelfth-grade teachers
  - Ⓑ Yes, available part-time to twelfth-grade teachers
  - Ⓒ No → *Question 10 is not applicable and will be skipped.*

VH241043

10. To what extent are each of the following a responsibility of the mathematics coach(es) available to twelfth-grade teachers at your school? Select **one** circle in each row.

	Not at all	Small extent	Moderate extent	Large extent	
a. Provide support or assistance about mathematics content	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH241044
b. Provide support or assistance about the teaching of mathematics to individual teachers	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH241046
c. Conduct professional development about mathematics or the teaching of mathematics for groups of teachers	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VH241045

11. In this school year, did your school offer any of the following activities? Select **one** circle in each row.

	Yes	No	
a. Opportunities for students to discuss mathematics work, including homework, with their teachers	<input type="radio"/>	<input type="radio"/>	VH270635
b. Peer tutoring in mathematics	<input type="radio"/>	<input type="radio"/>	VH270636
c. Mathematics competitions	<input type="radio"/>	<input type="radio"/>	VH270637
d. Chess clubs	<input type="radio"/>	<input type="radio"/>	VH270638
e. Programming classes	<input type="radio"/>	<input type="radio"/>	VH270640
f. Mathematics clubs	<input type="radio"/>	<input type="radio"/>	VH270641
g. Teacher-led tutoring sessions in mathematics for groups of students	<input type="radio"/>	<input type="radio"/>	VH270643
h. Teacher-led extra-help sessions in mathematics	<input type="radio"/>	<input type="radio"/>	VH270644
i. Family mathematics night	<input type="radio"/>	<input type="radio"/>	VH270645

12. To what extent is your school's mathematics program structured according to the following resources? Select **one** circle in each row.

	Not at all	Small extent	Moderate extent	Large extent	
a. State curriculum standards or frameworks	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH240920
b. District curriculum standards or curriculum guides	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH240921
c. Results from district assessments	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH240922
d. Results from state assessments	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH587964
e. Results from school-level assessments	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH547493
f. Recommendations from school mathematics department or teachers	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH547495
g. Discretion of individual teachers	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH240926
h. Commercially designed programs	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH240927
i. Resources found on the Internet	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH240925

13. To what extent does your school's twelfth-grade mathematics curriculum focus on preparation for the following types of assessments? Select **one** circle in each row.

	Not at all	Small extent	Moderate extent	Large extent	
a. District assessments	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH733487
b. State assessments	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH733486
c. School assessments (e.g., quizzes or tests created by teachers)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VH733485

14. Approximately what percentage of students in this year's graduating class has enrolled in a distance learning course for the following subjects? Select **one** circle in each row. (Distance learning courses are defined for this survey as credit-granting courses in which the teacher and student are in different locations. They can be delivered via audio, video, or Internet or other computer technologies. They may originate from your school or another entity.)

	0%	1-5%	6-10%	11-25%	26-50%	51-75%	Over 75%	
a. English/ language arts	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	<input type="radio"/> G	VH241062
b. Mathematics	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	<input type="radio"/> G	VH241063
c. Social studies	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	<input type="radio"/> G	VH241064
d. 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	<input type="radio"/> G	VH241065
e. Computer 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	<input type="radio"/> G	VH241066
f. Foreign languages	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	<input type="radio"/> G	VH241067
g. Career and technical/ vocational	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	<input type="radio"/> G	VH241068
h. Other (Please specify): _____	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	<input type="radio"/> G	VH241069

15. Approximately what percentage of students in this year’s graduating class has enrolled in a mathematics academic course for dual credit taught at the following locations? Select **one** circle in each row.

(Dual credit is defined for this survey as a course or program where high school students can earn both high school and postsecondary credits for the same courses. Postsecondary institutions include public and private 2- or 4-year colleges or universities, community colleges, and technical or vocational schools. The dual credit options must either be legislated by your state or have an articulated or formal written agreement between your school and a postsecondary institution. Do NOT include Advanced Placement and International Baccalaureate® courses.)

	0%	1–5%	6–10%	11–25%	26–50%	51–75%	Over 75%	
a. On your high school campus	(A)	(B)	(C)	(D)	(E)	(F)	(G)	VH241071
b. On a postsecondary campus	(A)	(B)	(C)	(D)	(E)	(F)	(G)	VH241072
c. Through distance learning	(A)	(B)	(C)	(D)	(E)	(F)	(G)	VH241074
d. Other (Please specify): _____	(A)	(B)	(C)	(D)	(E)	(F)	(G)	VH241076

16. Approximately what percentage of students in this year’s graduating class has enrolled in a career and technical/vocational course for dual credit taught at the following locations? Select **one** circle in each row.

(Dual credit is defined for this survey as a course or program where high school students can earn both high school and postsecondary credits for the same courses. Postsecondary institutions include public and private 2- or 4-year colleges or universities, community colleges, and technical or vocational schools. The dual credit options must either be legislated by your state or have an articulated or formal written agreement between your school and a postsecondary institution. Do NOT include Advanced Placement and International Baccalaureate® courses.)

	0%	1–5%	6–10%	11–25%	26–50%	51–75%	Over 75%	
a. On your high school campus	(A)	(B)	(C)	(D)	(E)	(F)	(G)	VH241078
b. On a postsecondary campus	(A)	(B)	(C)	(D)	(E)	(F)	(G)	VH241079
c. Through distance learning	(A)	(B)	(C)	(D)	(E)	(F)	(G)	VH241080
d. Other (Please specify): _____	(A)	(B)	(C)	(D)	(E)	(F)	(G)	VH241082