



2019 Next-Generation MCAS Test Information for Grade 10 Mathematics

Beginning in spring 2019, students in grade 10 will begin taking the Next Generation MCAS test in Mathematics. This document describes the test design, question types, and other information related to the Mathematics test.

Standards Alignment

The Next-Generation MCAS test for Grade 10 Mathematics will align to [clusters](#) within the Conceptual Categories (also see Reporting Categories listed in table below) in the [2017 Massachusetts Mathematics Curriculum Framework](#). Standards coded with a (+) symbol will not be assessed on the MCAS.

Number of Sessions and Calculator Use

The Grade 10 Math test will have two sessions.

- In Session 1, no calculators are allowed.
- In Session 2, calculators are allowed

Question Types

The following table contains information about the question types on the tests.

| Question Type | Total Points |
|--|--------------|
| Multiple Choice <i>Students select one correct answer from among several answer options.</i> | 1 |
| Multiple Select <i>Students select more than one correct answer from among several answer options.</i> | 1 |
| Technology Enhanced <i>Students taking the computer-based tests answer questions using technology such as drag-and-drop and hot spot.</i> | 1 or 2 |
| Short Answer/Fill-in-the-Blank <i>Students construct a short written response, typically only a word or a number.</i> | 1 |
| Constructed Response <i>Students write a response to a multi-part item that includes calculations and explanations to a problem or set of problems.</i> | 4 |

Test Design

The test includes both common and matrix questions. Common questions count toward a student's score, while matrix questions consist of both field-test and equating questions and do not count toward a student's score.

Common Questions

Students will complete a range of question types as described above. Information about the number of questions by points is in the table below.

| Number of 1- Point Questions | Number of 2-point Questions | Number of Constructed Response Questions | Total Points on Test |
|-------------------------------------|------------------------------------|---|-----------------------------|
| 32 | 6 | 4 | 60 |

The percentages and number of points for each reporting category are in the table below.

| Reporting Category | Percentage (+/-5%) | Total Number of Points |
|-------------------------------------|---------------------------|-------------------------------|
| Number & Quantity | 15% | 9 |
| Algebra & Functions | 35% | 21 |
| Geometry | 35% | 21 |
| Statistics & Probability | 15% | 9 |

Matrix Questions

In addition to common questions, students will answer matrix (field test and equating) questions.

- Students will answer six additional 1- or 2-point questions and four additional constructed-response questions.