

**Reporting Categories and Content Standards**

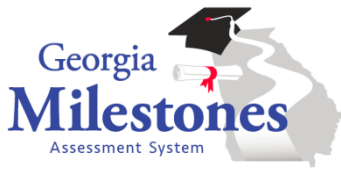
| Reporting Category/Domain                                | Content Standards Assessed                      | Approximate # of Points | Approximate % of Test |
|--|---|-------------------------|-----------------------|
| <b>Equations</b>   | N-Q<br>(1, 2, 3)                                | 17                      | 30%                   |
|  | A-CED<br>(1, 2, 3, 4)                           |                         |                       |
|  | A-REI<br>(1, 3, 4, 4a, 4b, 5, 6, 10, 11, 12)    |                         |                       |
| <b>Expressions</b>                                       | N-RN<br>(2, 3)                                  | 12                      | 20%                   |
|  | A-SSE<br>(1, 1a, 1b, 2, 3, 3a, 3b)              |                         |                       |
|  | A-APR<br>(1)                                    |                         |                       |
| <b>Functions</b>   | F-IF<br>(1, 2, 3, 4, 5, 6, 7, 7a, 7e, 8, 8a, 9) | 20                      | 35%                   |
|  | F-BF<br>(1, 1a, 2, 3)                           |                         |                       |
|  | F-LE<br>(1, 1a, 1b, 1c, 2, 3, 5)                |                         |                       |
| <b>Algebra Connections to Statistics and Probability</b> | S-ID<br>(1, 2, 3, 5, 6, 6a, 6c, 7, 8, 9)        | 9                       | 15%                   |
| <b>Total</b>   |   | <b>58</b>               | <b>100%</b>           |

The Standards for Mathematical Practice (1-8) will be embedded within items aligned to the mathematical content standards.

**Depth of Knowledge**

Depth of Knowledge (DOK) is measured on a scale of 1 to 4 and refers to the level of cognitive demand (different kinds of thinking) required to complete an assessment item. The following table shows the expectations of the four DOK levels on the End-of-Course Algebra I exam.

| Depth of Knowledge | Approximate # of Points | Approximate % of Test |
|--------------------|-------------------------|-----------------------|
| <b>Level 1</b>     | 15 to 20                | 25% to 35%            |
| <b>Level 2</b>     | 26 to 32                | 45% to 55%            |
| <b>Level 3</b>     | 9 to 15                 | 15% to 25%            |
| <b>Level 4</b>     | N/A                     | N/A                   |



# Georgia Milestones Assessment System

## Algebra I

### ASSESSMENT BLUEPRINT

#### Assessment Design

| Item Type   | # of Items | # of Points |
|---|------------|-------------|
| 1-point Selected-Response and Technology-Enhanced Items <sup>1, 2</sup> | 42         | 42          |
| 2-point Technology-Enhanced Items <sup>1</sup>                          | 8          | 16          |
| Field Test Items <sup>3</sup>   | 5          | 0           |
| <b>Total<sup>4</sup></b>  | <b>55</b>  | <b>58</b>   |

<sup>1</sup> **Technology-Enhanced:** Possible variants of the technology-enhanced item types used for Algebra I include multiple-part selected-response, multiple-select, drag-and-drop, drop-down, graphing, and keypad-input.

<sup>2</sup> **1-point Selected-Response and Technology-Enhanced Items:** The ratio of selected-response to technology-enhanced items may vary. The target range of 1-point technology-enhanced items is 0 to 5.

<sup>3</sup> **Field Test Items:** Field test items may include 1-point selected-response, 1-point technology-enhanced, and 2-point technology-enhanced items.

<sup>4</sup> **Total:** Of the total 55 items, 50 contribute to the student's Algebra I score.