| **Virginia Board of Education Agenda Item** | **Seal of the Commonwealth of Virginia** |
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# Agenda Item: G

## Date: January 24, 2019

### Title: Final Review of Recommended Cut Scores for the End-of-Course Standards of Learning Tests in Algebra I, Geometry, and Algebra II Based on the 2016 Mathematics Standards

#### Presenter: Mrs. Shelley Loving-Ryder, Assistant Superintendent for Student Assessment and ESEA Programs

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## Purpose of Presentation:

Action required by state or federal law or regulation.

## Executive Summary:

In 2018-2019 new Standards of Learning (SOL) tests measuring the 2016 mathematics content standards will be administered. Because of the changes in the content measured by these tests, the Virginia Board of Education must adopt new passing scores. Consistent with the process used in 1998 and in 2011-2012, committees of educators were convened in November 2018 to recommend to the Board of Education (BOE) minimum "cut" scores for the achievement levels of *pass/proficient* and *pass/advanced* for the Algebra I, Geometry, and Algebra II SOL tests.

## Action Requested:

Final review: Action requested at this meeting.

## Superintendent’s Recommendation:

The Superintendent of Public Instruction recommends that the Board of Education adopt scaled scores of at least 400 for *pass/proficient* and at least 500 for *pass/advanced* for the end-of-course Algebra I, Geometry, and Algebra II SOL tests based on the 2016 Mathematics SOL. These scaled scores shall be equivalent to the following number of items correct on the test forms reviewed by the educator committees convened for standard setting:

* Algebra I: 20 for *pass/proficient* and 40 for *pass/advanced*
* Geometry: 20 for *pass/proficient* and 40 for *pass/advanced*
* Algebra II: 24 for *pass/proficient* and 40 for *pass/advanced*

## Rationale for Action:

Approving cut scores for the end-of-course Algebra I, Geometry, and Algebra II SOL tests at this meeting will allow their application to tests administered in the spring 2019 test administration.

## **Background Information and Statutory Authority:**

In 2018-2019 new Standards of Learning (SOL) tests measuring the 2016 mathematics content standards will be administered. Because of the changes in the content measured by these tests, new passing scores must be adopted by the Virginia Board of Education. Consistent with the process used in 1998 and in 2011- 2012, committees of educators were convened in November 2018 to recommend to the Board of Education (BOE) minimum "cut" scores for the achievement levels of *pass/proficient* and *pass/advanced* for the Algebra I , Geometry, and Algebra II tests. Information about the range of cut scores recommended by the committees for the achievement levels of *pass/proficient* and *pass/advanced* for the Algebra I, Geometry, and Algebra II tests is contained in Attachment A.

## Previous Review or Action:

Previous review and action. Specify date and action taken below:

Date: November 15, 2018

Action: The Board received on first review cut scores for the Algebra I, Geometry, and Algebra II tests based on the 2016 mathematics Standards of Learning

## **Timetable for Further Review/Action:**

Upon approval by the Board of Education, this information will be disseminated to school divisions via a Superintendent’s Memorandum.

## Impact on Fiscal and Human Resources:

Costs associated with the implementation of new cut scores for the Algebra I, Geometry, and Algebra II tests will be covered by existing funds.

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# Attachment A

## Summary and Background Information on Proposed Cut Scores for the End-of-Course Mathematics Tests Based on the 2016 Standards of Learning

|  | **Pass/Proficient** | | | | **Pass/Advanced** | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Background**  **Information** | | **Standard Setting  Summary** | | **Background**  **Information** | | **Standard Setting  Summary** | |
| **Test**  **Name \*** | Pass/Proficient Cut Score  for  Previous Mathematics Test**\*\*** | Pass/Proficient Cut Score for New Test to Maintain Previous Level  of Rigor\* | Round 3  Median  for  Proficient\* | Articulation Committee  Recommendation\* | Pass/Advanced  Cut Score for  Previous Mathematics Test\*\* | Pass/Advanced Cut Score for New Test to Maintain Previous Level of Rigor\* | Round 3  Median  for  Advanced\* | Articulation Committee  Recommendation\* |
| Algebra I | 25 out of 50 | 21 out of 45 | 20 out of 45 | 20 out of 45 | 45 out of 50 | 41 out of 45 | 40 out of 45 | 40 out of 45 |
| Geometry | 25 out of 50 | 23 out of 45 | 20 out of 45 | 20 out of 45 | 44 out of 50 | 40 out of 45 | 40 out of 45 | 40 out of 45 |
| Algebra II | 27 out of 50 | 23 out of 45 | 24 out of 45 | 24 out of 45 | 43 out of 50 | 37 out of 45 | 40 out of 45 | 40 out of 45 |

**\*** Tests based on the 2016 Mathematics Standards of Learning have 45 items

**\*\*** Tests based on the 2009 Mathematics Standards of Learning have 50 items