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

## Date: April 25, 2019

### Title: First Review of Recommended Cut Scores for Substitute Tests for Verified Credit in Mathematics

#### 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:

## The current list of substitute tests approved by the Board of Education may be found at [Link:http://www.doe.virginia.gov/testing/substitute\_tests/index.shtml](http://www.doe.virginia.gov/testing/substitute_tests/index.shtml). The substitute tests are used to award verified credit for students and are included in the accreditation calculations for schools. At the time that these tests were approved as substitute tests, they were judged to measure content that incorporated or exceeded the Standards of Learning (SOL) in effect.

In 2018-2019 new SOL tests measuring the 2016 mathematics content standards will be administered. Because new SOL tests measuring the 2016 mathematics SOL have been implemented, the current substitute tests must be reviewed to ensure that they still incorporate or exceed the content of the current SOL and that the adopted cut scores for proficient and advanced were still appropriate.

A committee of educators was convened to review the tests and evaluate the previously adopted cut scores. In some cases committee members verified the current cut scores. In other cases they recommended revisions to the cut scores. Recommended revisions to the list of approved substitute tests appear in strikethrough version of the current list in Attachment A.

## Action Requested:

Other. Specify below:

The Board is asked to waive first review and adopt the cut scores for the substitute tests for verified credit for mathematics at the April 25, 2019 meeting.

## Superintendent’s Recommendation:

The Superintendent of Public Instruction recommends that the Board of Education adopt the proposed cut score revisions for the following substitute tests for verified credit in mathematics.

Algebra I

* ACT: Mathematics Subtest: 16 for pass/proficient and 25 for pass/advanced
* CLEP College Algebra: 28 for pass/proficient and 38 for pass/advanced
* SAT Math Test (Version of the test administered beginning March 2016): 530 for pass/advanced
* SAT II Math IIC or SAT Subject Test in Mathematics Level 2: 540 for pass/proficient

Algebra II

* SAT II Math IIC or SAT Subject Test in Mathematics Level 2: 580 for pass/proficient

Geometry

* ACT: Mathematics Subtest: 19 for pass/proficient and 26 for pass/advanced

## Rationale for Action:

Approving cut scores for the substitute tests for verified credit in mathematics at this meeting will allow their implementation with tests administered in the 2018-2019 test administration.

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

The Standards for Accrediting Public Schools at 8VAC20-131-110 permit the Virginia Board of Education to approve additional substitute tests for the purpose of awarding verified credit.

*8VAC20-131-110 Standard and verified units of credit.*

*C. The Board of Education may from time to time approve additional tests for the purpose of awarding verified credit. Such additional tests, which enable students to earn verified units of credit, must, at a minimum, meet the following criteria:*

*1. The test must be standardized and graded independently of the school or school division in which the test is given;*

*2. The test must be knowledge based;*

*3. The test must be administered on a multistate or international basis, or administered as part of another state's accountability assessment program; and*

*4. To be counted in a specific academic area, the test must measure content that incorporates or exceeds the SOL content in the course for which verified credit is given.*

*The Board of Education will set the score that must be achieved to earn a verified unit of credit on the additional test options.*

## The current list of substitute tests approved by the Board of Education may be found at [Link:http://www.doe.virginia.gov/testing/substitute\_tests/index.shtml](http://www.doe.virginia.gov/testing/substitute_tests/index.shtml). The substitute tests are used to award verified credit for students and are included in the accreditation calculations for schools. At the time that these tests were approved as substitute tests, they were judged to measure content that incorporated or exceeded the Standards of Learning (SOL) in effect.

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## Previous Review or Action:

No previous review or action.

## **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 to convene the committees to review the substitute tests were covered with existing resources.

# Attachment A

**Substitute Tests for Verified Credit in Mathematics**

**Recommendations for Revisions**

**April 2019**

**Substitute Tests Approved for Awarding Verified Credit**

| **Recommended Changes to Mathematics Substitute Tests** | | | | |
| --- | --- | --- | --- | --- |
| **SOL Test** | **Substitute Test** | **Pass/ Proficient** | **Pass/ Advanced** | **Comment** |
| Algebra I | **ACT: Mathematics Subtest** | **~~18~~ 16** | **~~26~~ 25** | **Revised scores reflect changes in the 2016 Algebra I SOL** |
| Algebra I | AP Calculus ++++ | 2 | 3 |  |
| Algebra I | Cambridge International Examinations: IGCSE Mathematics | E | D |  |
| Algebra I | Cambridge International Examinations: IGCSE Additional Mathematics | E | D |  |
| Algebra I | Cambridge International Examinations: IGCSE Extended Mathematics | D | C |  |
| Algebra I | Cambridge International Examinations: Mathematics (A Level) | E | D |  |
| Algebra I | Cambridge International Examinations: Further Mathematics (A Level) | E | D |  |
| Algebra I | **CLEP College Algebra** | **~~30~~ 28** | **~~40~~ 38** | **Revised scores reflect changes in the 2016 Algebra I SOL** |
| Algebra I | IB Math Studies (Standard Level)++++ | 3 | 4 |  |
| Algebra I | IB Mathematics (Standard Level)++++ | 3 | 4 |  |
| Algebra I | IB Mathematics (Higher Level)++++ | 3 | 4 |  |
| Algebra I | *PSAT/NMSQT or PSAT 10* Math Test (administered beginning March 2016) | 460 | 550 |  |
| Algebra I | SAT I Mathematics Subtest(Must have beenadministered prior to March 2016.) | 440 | 520 |  |
| Algebra I | **SAT Math Test (administered beginning March 2016)** | 440 | **~~520~~ 530** | **Revised scores reflect the rigorous expectations for advanced achievement** |
| Algebra I | SAT II Math IC or SAT Subject Test in Mathematics Level 1 | 500 | 570 |  |
| Algebra I | **SAT II Math IIC or SAT Subject Test in Mathematics Level 2** | **~~590~~ 540** | 660 | **Revised scores reflect changes in the 2016 Algebra I SOL** |
| Algebra II | AP Calculus++++ | 2 | 3 |  |
| Algebra II | Cambridge International Examinations: IGCSE Additional Mathematics | E | D |  |
| Algebra II | Cambridge International Examinations: Mathematics (A Level) | E | D |  |
| Algebra II | Cambridge International Examinations: Further Mathematics (A Level) | E | D |  |
| Algebra II | CLEP College Algebra | 50 | 63 |  |
| Algebra II | IB Math Studies (Standard Level)++++ | 3 | 4 |  |
| Algebra II | IB Mathematics (Standard Level)++++ | 3 | 4 |  |
| Algebra II | IB Mathematics (Higher Level)++++ | 3 | 4 |  |
| Algebra II | SAT II Math IC or SAT Subject Test in Mathematics Level 1 | 500 | 570 |  |
| Algebra II | **SAT II Math IIC or SAT Subject Test in Mathematics Level 2** | **~~590~~ 580** | 660 | **Revised scores reflect changes in the 2016 Algebra II SOL** |
| Geometry | **ACT: Mathematics Subtest** | **~~20~~ 19** | **~~27~~ 26** | **Revised scores reflect changes in the 2016 Geometry SOL** |
| Geometry | AP Calculus++++ | 2 | 3 |  |
| Geometry | Cambridge International Examinations: IGSCE Mathematics | E | C |  |
| Geometry | Cambridge International Examinations: IGCSE Extended Mathematics | D | C |  |
| Geometry | IB Math Studies (Standard Level)++++ | 3 | 4 |  |
| Geometry | IB Mathematics (Standard Level)++++ | 3 | 4 |  |
| Geometry | IB Mathematics (Higher Level)++++ | 3 | 4 |  |
| Geometry | SAT II Math IC or SAT Subject Test in Mathematics Level 1 | 500 | 570 |  |
| Geometry | SAT II Math IIC or SAT Subject Test in Mathematics Level 2 | 590 | 660 |  |

++++ Students may use this test to earn two verified credits in mathematics.