

# The Washington State Board of Education

Governance | Accountability | Achievement | Oversight | Career & College Readiness

<b>Title:</b>	<b>Standard Setting for Alternative Assessments to Math End of Course Exams</b>	
<b>As Related To:</b>	<input type="checkbox"/> Goal One: Effective and accountable P-13 governance. <input checked="" type="checkbox"/> Goal Two: Comprehensive statewide K-12 accountability. <input type="checkbox"/> Goal Three: Closing achievement gap.	<input checked="" type="checkbox"/> Goal Four: Strategic oversight of the K-12 system. <input type="checkbox"/> Goal Five: Career and college readiness for all students. <input type="checkbox"/> Other
<b>Relevant To Board Roles:</b>	<input type="checkbox"/> Policy Leadership <input checked="" type="checkbox"/> System Oversight <input checked="" type="checkbox"/> Advocacy	<input type="checkbox"/> Communication <input type="checkbox"/> Convening and Facilitating
<b>Policy Considerations / Key Questions:</b>	<p>The Washington State Board of Education (SBE) is asked to consider approval of the process for developing cut scores for the Collection of Evidence alternative assessment to mathematics End of Course (EOC) exams. This alternative assessment is available for students who have been unsuccessful in passing a mathematics End of Course exam. The Classes of 2013 and 2014 must pass one mathematics End of Course exam to graduate. The standard setting process for Collections of Evidence alternative assessment for comprehensive assessments in reading and writing was approved by SBE in August 2007.</p> <p>The SBE is also asked to consider approval of scores for the ACT and SAT exams that are equivalent to passing the mathematics End of Course exams. The process for identifying equivalent ACT and SAT scores for the comprehensive assessments was presented to the SBE in November 2007.</p>	
<b>Possible Board Action:</b>	<input checked="" type="checkbox"/> Review <input checked="" type="checkbox"/> Adopt <input checked="" type="checkbox"/> Approve <input type="checkbox"/> Other	
<b>Materials Included in Packet:</b>	<input checked="" type="checkbox"/> Memo <input type="checkbox"/> Graphs / Graphics <input type="checkbox"/> Third-Party Materials <input checked="" type="checkbox"/> PowerPoint	
<b>Synopsis:</b>	<p>The State Board of Education is required, under RCW 28A.305.130(4)(b), to identify the scores high school students must achieve to meet standard in statewide student assessment and obtain a certificate of academic achievement. The SBE sets performance standards and levels in consultation with the Superintendent of Public Instruction. The Office of the Superintendent of Public Instruction will ask the SBE to consider approval of the ACT and SAT scores equivalent to the mathematics EOC exams. The Office of the Superintendent of Public Instruction will also ask the SBE to consider approval of the process of setting cut scores for the Collection of Evidence alternative assessment to the mathematics EOC exams.</p>	

## Standard Setting for the Mathematics Year 1 and Year 2 Collections of Evidence

### **Background**

The 2008 Mathematics Learning Standards were first assessed in 2011 with End of Course exams in Algebra/Integrated Mathematics One and Geometry/Integrated Mathematics Two. The State Board of Education set the cut scores for these exams in August 2011. Students who do not meet standard on these general assessments may use a Collection of Evidence in Mathematics Year One and/or Mathematics Year Two as a Certificate of Academic Achievement Option (available for students in the class of 2013 and beyond).

OSPI will present the plan for conducting the standard setting process for these Mathematics Collections of Evidence for the Board's approval. The standard setting process will include a committee of content and grade-level experts and will make use of all available standard setting tools and data including examples of scored student work to develop a picture of proficient student performance. The committee's experience, knowledge, expertise, and expectations will be used to recommend the "cut score" (the number of points necessary to meet standard out of the total of points possible) that most closely aligns to "Meeting Standard" on the End of Course exams.

In March of 2013, the Washington State Board of Education, (SBE) will approve the scores students must achieve to meet performance standards. This briefing on the standard setting process will give SBE an opportunity to review and ask questions about that process. The process for standards setting for Collections of Evidence, for the comprehensive reading and writing assessments, were approved by SBE in August 2007.

### **Action**

The Board is asked to approve the standard setting plan. The Board will approve cut scores in March 2013, based on the recommendations of the standard setting panels.

## **Certificate of Academic Achievement Options: Determination of SAT/ACT Cut Scores for Mathematics Year One and Year Two**

### **Background**

The 2008 Mathematics Learning Standards were first assessed in 2011 with End of Course exams in Algebra/Integrated Mathematics One and Geometry/Integrated Mathematics Two. The State Board of Education set the cut scores for these exams in August 2011. Students who do not meet standard on these general assessments may use appropriate college admissions test (SAT/ACT) scores for mathematics as a Certificate of Academic Achievement Option (available for students in the class of 2013 and beyond).

The Office of Superintendent of Public Instruction (OSPI) will present the data, and the analysis of the data used to determine the SAT and ACT cut scores appropriate for demonstrating proficiency on the Algebra/Integrated Mathematics One and on the Geometry/Integrated Mathematics Two End of Course exams, for the Board's review and approval. The same process was used to determine the cut scores used to determine the SAT and ACT cut scores set for Reading and Writing in 2007. The data used at that time included 25,000 student cases with both tenth grade WASL and SAT scores at time of graduation. An equipercentile linking—that links the percentiles of two different tests to determine equivalent scores—was done between the percent meeting standard on WASL and that same percentile point in the SAT file.

This briefing will give SBE an opportunity to review and ask questions about the process and recommended cut scores. The process for equivalent scores for the SAT and ACT, for the comprehensive exams in reading and writing, was approved by SBE in November 2007.

### **Action**

The Board is asked to approve the SAT and ACT cut scores for Algebra/Integrated Mathematics One and on the Geometry/Integrated Mathematics Two End of Course exams.