

Collection of Evidence: Standard Setting for Biology and Revisiting the Standard for Mathematics Year One

State Board of Education
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Michael Middleton, Director of Alternative Assessments
Dr. Tom Hirsch, Assessment and Evaluation Services



OFFICE OF SUPERINTENDENT OF PUBLIC INSTRUCTION
Division of Assessment and Student Information

Legislatively Approved Alternatives: Background and History of CAA-Options

- Legislative action required “legislatively approved alternatives” to the state’s high school exit exams (RCW 28A.655.061 and RCW 28A.655.065).
- Options specified by law:
 - College entrance exams (SAT or ACT scores)
 - Advance Placement (AP) exams
 - GPA comparison
 - **Collection of Evidence**

Legislatively Approved Alternatives:

Today's Discussion

- New K-12 Learning Standards for Science (2009) and a new Biology End of Course exam (2012) require the implementation of a Collection of Evidence option for Biology.
 - State Board approval of proposed the standard setting process
- Changes in the bank of tasks available for the Mathematics Year One Collection of Evidence require revisiting the standard set in 2013.
 - State Board approval of proposed process for revisiting the cut scores for Mathematics Year One Collection of Evidence

Biology Collection of Evidence

Biology Collection of Evidence (COE): Background

- The first submission opportunity for Biology Collections of Evidence (COE) will occur in June 2014.
 - A collection of evidence (COE) is a set of work samples, consisting of six to eight performance tasks.
 - Two of the tasks must be “on-demand” - completed in a single sitting under supervision of a teacher. Other tasks may be completed in extended time.
 - The COE to be comparable to the EOC in terms of reporting strand representation and rigor.

Biology COE Standard Setting: Background

- The COE has **one** cut score, separating two levels of student performance:
 - The cut between “Basic” and “Proficient.”
- The Superintendent recommends a cut score to the State Board.
- With Board approval, cut scores will be used to report the 2014 and future results.
 - Used until such time as the standards are revised or revisited.

Biology COE Standard Setting: The Participants

- **Course-Level Panel**
 - 15 content and grade-level expert convened in August 2014
 - Implement standard setting activities across three days, resulting in a recommended cut score
- **Articulation Panel**
 - Reviews the process and the recommendation
- **Facilitator**
 - Dr. Tom Hirsch serves as lead facilitator
- **Additional Support**
 - OSPI & ESD staff – logistical support & process documentation

Biology COE Standard Setting: Description of Activities

Day 1

- Welcome/Orientation/Administrative Tasks
- Panel Selection Process
- Overview of Standard Setting Process
- Review of Assessment
 - Learning Standards
 - COE Development Process
 - EOC Test Blueprint and COE Blueprint
- Taking/Scoring the “Assessment” (Tasks)
- Review of Performance Level Descriptors or PLDs
- Review of Ordered Item Booklet

Biology COE Standard Setting: Description of Activities

Day 2

- Small Table Discussion of PLDs
- Total Group Discussion
- Summary of Standard Setting Procedure
- Sample Practice Standard Setting
- Round 1 Ratings – “Range Finding”
 - Identify “gray area” using approximately 25 collections

Biology COE Standard Setting: Description of Activities

Day 3

- Discussion of round 1 ratings
- Round 2 Ratings – “Pinpointing #1”
 - Provide an expanded “gray area” set of collections
- Discussion of round 2 ratings
- Presentation of Impact Data
- Round 3 Ratings – “Pinpointing #2”
- Discussion of results
- Recommendation to Articulation Committee
- Articulation Committee Discussion

Discussion & Questions





Mathematics Year One
Collection of Evidence

Mathematics Year 1 COEs: Background

- The first submission of the Mathematics COEs occurred in January 2013.
 - Subsequent submissions occurred in May and June of 2013.
- Standard setting occurred in March 2013.
- State Board of Education set cut scores March 29, 2013.

Mathematics COE	Points Possible	Cut Score	Augment
Year 1	32	24	22-23

Mathematics Year 1 COE: Inclusion Bank Issues

Area of Concern	Retired Tasks	New Tasks
Test Map Coverage	Some assessed only one standard with repeated questions	Assess a minimum of two different standards
Process Questions	Not embedded in content and not scorable	Embedded in content and scored
Course Specific Questions	Included but did not contribute to the student score	Not included in tasks
Scoring	Some did not allow for all score points (4-2-0)	Allow full range of score points (4-3-2-1-0)

Mathematics Year 1 COEs: Rationale for Revisiting Standard Setting

- The majority of inclusion bank tasks for Year 1 have been modified or replaced.
- The COE does not have the equivalent of anchor items.
 - No anchor items means no process to “link” scores between 2013 & 2014; OSPI needs to validate latest tasks fulfill same expectation committee set with original cut-score.
- It is necessary to reaffirm that the cut-score set in March 2013 is still reflected in collections composed of the new inclusion bank tasks.

Mathematics Year 1 COEs: Plan for Revisiting Standard Setting

- First collections containing significant numbers of “new” inclusion bank tasks will be submitted June 2014.
- After scoring occurs in July 2014, reconvene members of the standard setting panel from the Mathematics Year 1 COE standard setting in 2013.
- Provide the panel with a set of scored collections comprised of the new inclusion bank tasks.

Math Year 1 COE Revisiting Standard: Description of Activities

Day 1

- Welcome/Orientation/Administrative Tasks
- Panel Selection Process
- Overview of Standard Setting Process
- Review of Assessment
 - Learning Standards
 - COE Development Process
 - EOC Test Blueprint and COE Blueprint
- Taking/Scoring the “Assessment” (Tasks)
- Review of Performance Level Descriptors or PLDs
- Review of Ordered Item Booklet
- Small table discussion of PLDs and Ordered Item Booklet

Math Year 1 COE Revisiting Standard: Description of Activities

Day 2

- Total group discussion of PLDs
- Summary of Standard Setting Procedure
- Round 1 Ratings
- Discussion of round 1 ratings
- Presentation of Impact Data
- Round 2 Ratings
- Discussion of results
- Recommendation to Articulation Committee
- Articulation Committee Discussion

Discussion & Questions

