

Performance Standards Setting for High School Exit Exams and WA-AIM

**Special Meeting of the State Board of Education
August 5, 2015**



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

Transition to New Standards

	Old Standards	New Standards	
		Accountability	Exit Exam
English Language Arts	HSPE - Rdg	Smarter Balanced HS ELA	<i>Smarter Balanced HS ELA</i>
	HSPE - Wrtg		
Mathematics	EOC – Year 1	Smarter Balanced HS Math	<i>EOC – Yr 1 Exit Exam</i>
	EOC – Year 2		<i>EOC – Yr 2 Exit Exam</i>
ELA, Math, Science	WAAS -Portfolio	WA-AIM	WA-AIM

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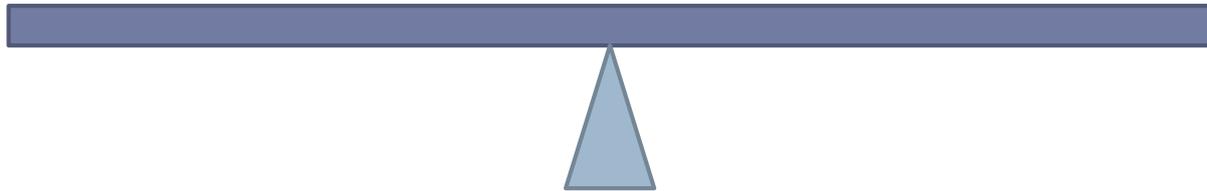
New Standards, New Tests, New Baselines

- ▶ Should not compare proficiency rates to previous tests
 - ▶ Increased rigor in learning standards
 - ▶ Increased rigor of tests
- ▶ **BUT**, looking back is necessary for assessment graduation requirements
 - ▶ Legislature gave SBE authority to set lower performance standards on exit exams
 - ▶ SBE position is to find cut scores that yield ‘equal impact’ initially

Your Task is a Balancing Act

**Ensuring College
and Career
Readiness**

**Same Proportion of
Students Meeting
Threshold**





(WA - AIM)

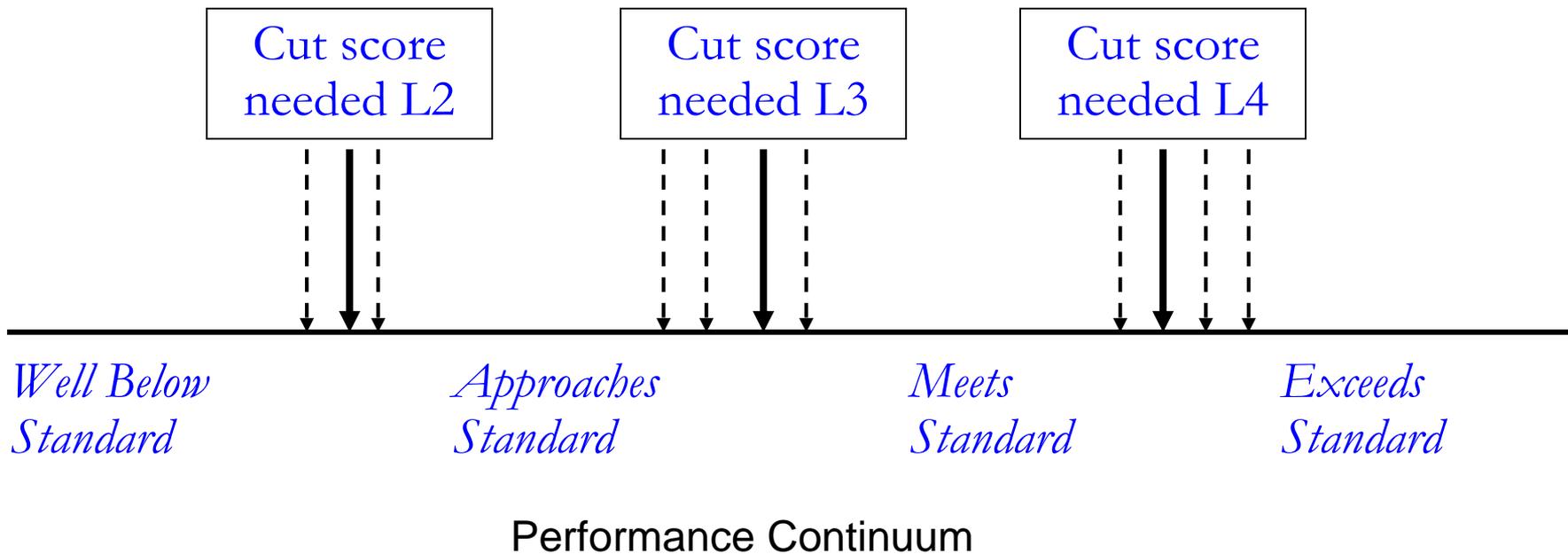
Background of **WA**ashington **A**ccess to **I**nstruction & **M**easurement – WA-AIM

- Designed for students with **significant cognitive challenges** (~1% of students) for whom the general assessments, even with accommodations, are not accessible.
- WA-AIM is based on learning standards adapted from the state content standards.
- Performance tasks linked to the adapted learning standards are used by educators to assess student knowledge and skills in a pre and post format.

Purposes of WA-AIM

- WA-AIM serves as the alternate assessment, in grades 3-8 and I I, for accountability purposes in ELA, mathematics, and science.
- In high school, students must display a minimum level of competency in ELA and math in order to earn a certificate of individual achievement/high school diploma.

Based on Alternate Achievement Level Descriptors, panelists recommended 3 cut scores...



Recommendations

- ▶ National Technical Advisory Committee reviewed processes & outcomes on July 29, 2015.
 - ▶ Gave approval to the standard setting recommendations
- ▶ Superintendent Dorn reviewed outcomes with staff and presents the following as recommendations to SBE for adoption as the WA-AIM cut-scores.

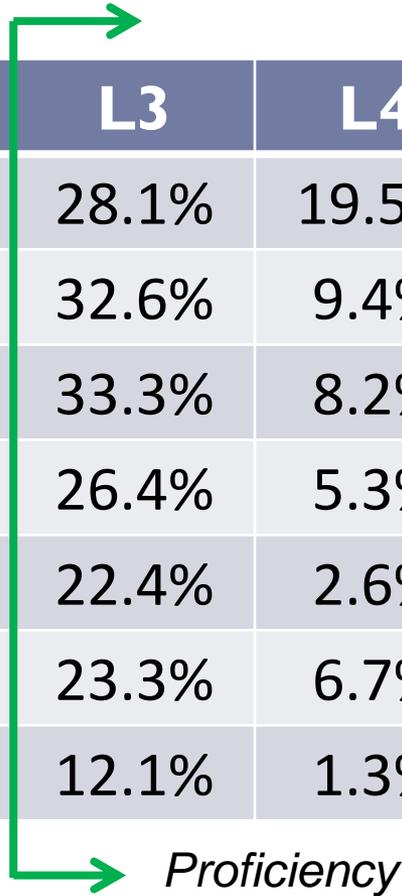
WA-AIM ELA Proposed Cut Scores

ELA	Level 2	Level 3	Level 4
Grade 3	109	124	150
Grade 4	107	125	158
Grade 5	108	129	162
Grade 6	110	125	159
Grade 7	108	123	154
Grade 8	110	123	150
HS	109	123	151



WA-AIM ELA Cut Scores - Impact

ELA	L1	L2	L3	L4	L3 & Above
Grade 3	15.3%	37.1%	28.1%	19.5%	47.6%
Grade 4	10.9%	47.1%	32.6%	9.4%	42.0%
Grade 5	10.0%	48.6%	33.3%	8.2%	41.4%
Grade 6	25.9%	42.4%	26.4%	5.3%	31.7%
Grade 7	24.7%	50.3%	22.4%	2.6%	25.0%
Grade 8	32.4%	37.6%	23.3%	6.7%	30.0%
HS	42.0%	44.6%	12.1%	1.3%	13.4%

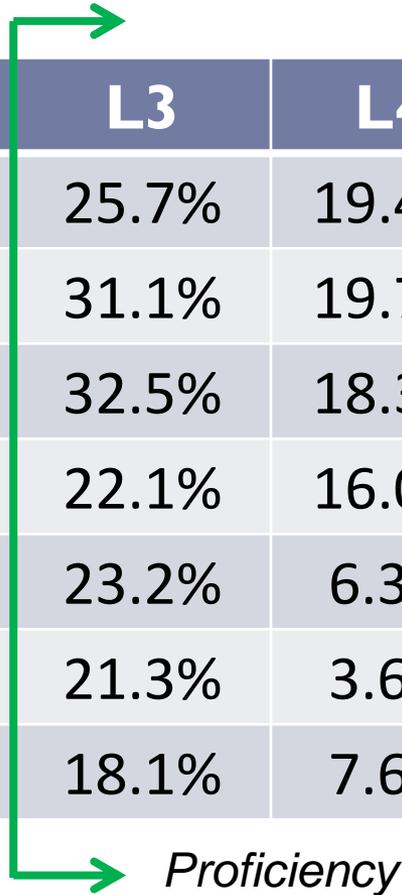


WA-AIM Math Proposed Cut Scores

Math	Level 2	Level 3	Level 4
Grade 3	108	129	161
Grade 4	106	126	161
Grade 5	106	120	153
Grade 6	109	131	160
Grade 7	109	124	163
Grade 8	112	133	162
HS	108	120	146

WA-AIM Math Cut Scores - Impact

Math	L1	L2	L3	L4	L3 & Above
Grade 3	12.6%	42.3%	25.7%	19.4%	45.1%
Grade 4	8.4%	40.7%	31.1%	19.7%	50.8%
Grade 5	8.3%	40.9%	32.5%	18.3%	50.8%
Grade 6	21.0%	40.9%	22.1%	16.0%	38.2%
Grade 7	35.9%	34.6%	23.2%	6.3%	29.4%
Grade 8	34.2%	40.9%	21.3%	3.6%	24.9%
HS	38.2%	36.1%	18.1%	7.6%	25.7%



WA-AIM Science Proposed Cut Scores

Science	Level 2	Level 3	Level 4
Grade 5	110	127	166
Grade 8	107	128	158
HS	<i>Note 1</i>		

Note 1: HS Science not administered due to accountability testing completed the previous school year

WA-AIM Science Cut Scores - Impact

	Level 1	Level 2	Level 3	Level 4	Level 3 and Above
Grade 5	26.8%	40.2%	30.0%	3.0%	33.0%
Grade 8	20.4%	48.1%	26.5%	5.0%	31.5%

Proficiency

WA-AIM Proposed Exit Exam Cut Scores and Impact

ELA	Target Rate	Cut Score
Grade 11 – using 3 yr avg	83.8% (16.2%)	104 Level I

Math	Target Rate	Cut Score
Grade 11 – using 3 yr avg	86.6% (13.4%)	103 Level I

WA-AIM High School Cut Scores	Level 2	Level 3	Level 4
ELA	109	123	151
Math	108	120	146



Questions & Discussion



Math End of Course Tests, Year 1 and Year 2 Math

Background of the EOC Assessments

- Two EOCs assess what is in common, or in the overlap, of Algebra I/Integrated Mathematics I and of Geometry/Integrated Mathematics II for purposes of satisfying the graduation requirement.
- Students must meet standard on one or the other EOC, or an alternative, in order to earn a certificate of academic achievement/high school diploma.
- New tests were needed because of new math standards.
- These tests are **not** used for accountability.
- First administration was Spring 2015; last administration likely Spring 2018.

Determination of the EOC Cut Scores

- ▶ Equal impact cut scores would yield comparable “passing” rates on the new tests as the former tests.
- ▶ The target impact percentage will be equal to the average of the last three years.

Algebra/Integrated I 2012-14	
Level	Percent Met
1	23
2	20
3	30
4	27

57%

Geometry/Integrated I 2012-14	
Level	Percent Met
1	12
2	19
3	32
4	37

69%

Proposed EOC Cut Scores

	Math Year 1		Math Year 2	
	Raw Score	Impact	Raw Score	Impact
Level 1	NA	24.1%	NA	12.1%
Level 2	15	18.8%	9	20.1%
Level 3	19	29.5%	12	29.3%
Level 4	24	27.6%	16	38.5%
Meeting Exit Exam L3 & L4	57%		68%	



Questions & Discussion





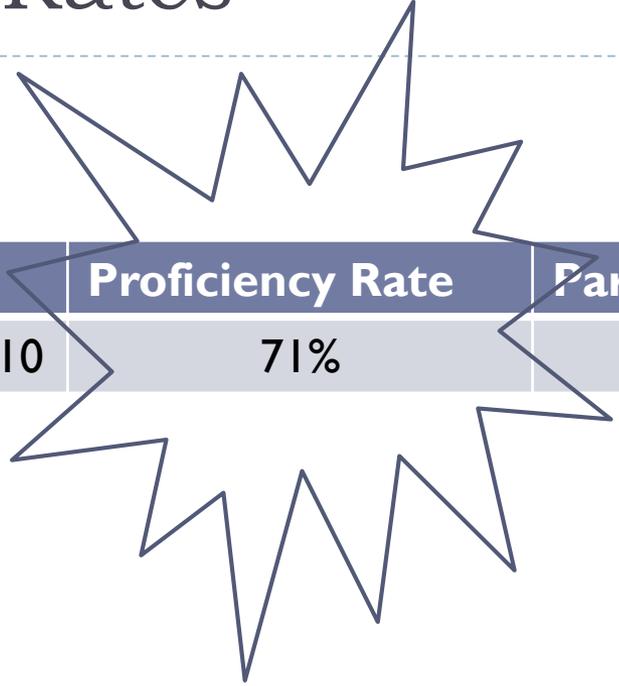
Smarter Balanced English Language Arts Test

ELA College and Career Ready Proficiency Rates

	Proficiency Rate	Participation
HS – Sneak peek	62%	NA
HS – Updated	64%	NA
Grade 10	71%	90-95%
Grade 11	51%	~50%



ELA College and Career Ready Proficiency Rates



	Proficiency Rate	Participation
Grade 10	71%	90-95%

Who do we have in our data?

	ELA	Math
11 th graders enrolled in 2014 – 2015	81,225	81,225
11 th graders who took Smarter Balanced	38,113	35,248
11 th graders who took Smarter Balanced and have prior scores	33,567	31,957
10 th graders enrolled in 2014 - 2015	81,934	81,934
10 th graders who took Smarter Balanced	65,464	NA



Is the Gr 11 Matched Cohort Skewed?

	Prior Test Performance (% meeting standard)	
	Grade 11 Smarter Balanced Testers in Matched Cohort	All Grade 11 Students
Reading HSPE	84.1%	85.7%
Writing HSPE	87.2%	88.9%
Year 1 Math EOC	72.3%	74.3%
Year 2 Math EOC	72.8%	77.8%



ELA Exit Exam Options and Impact

	Target Rate	Cut Score	Grade 11 Matched	Grade 11 All	Grade 10 All
Grade 11 – using matched cohort	79.0% (21.0%)	2487 Level 1	79%	77.6%	91.1%

Smarter Balanced ELA	Level 1	Level 2	Level 3	Level 4
High school Score Ranges	2299-2492	2493-2582	2583-2681	2682-2795



ELA Exit Exam Options and Impact

	Target Rate	Cut Score	Grade 11 Matched	Grade 11 All	Grade 10 All
Grade 11 – using matched cohort	79.0% (21.0%)	2487 Level 1	79%	77.6%	91.1%
Grade 10 – using 3 year avg	80.1% (19.9%)	2548 Level 2	NA	61.2%	80.1%

Smarter Balanced ELA	Level 1	Level 2	Level 3	Level 4
High school Score Ranges	2299-2492	2493-2582	2583-2681	2682-2795



ELA Exit Exam Options and Impact

	Target Rate	Cut Score	Grade 11 Matched	Grade 11 All	Grade 10 All
Grade 11 – using matched cohort	79.0% (21.0%)	2487 Level 1	79%	77.6%	91.1%
Grade 10 – using 3 year avg	80.1% 19.9%	2548 Level 2	NA	61.2%	80.1%
Level 2 CCR	NA	2493 Level 2	NA	76.2%	90.3%
Level 3 CCR	NA	2583 Level 3	NA	50.6%	71%

Smarter Balanced ELA	Level 1	Level 2	Level 3	Level 4
High school Score Ranges	2299-2492	2493-2582	2583-2681	2682-2795



Math Exit Exam Options and Impact

	Target Rate	Cut Score	Grade 11 Matched	Grade 11 All	Grade 10 All
Grade 11 – using matched cohort	75.6% (24.4%)	2469 Level 1	75.6%	74.5%	NA

Smarter Balanced Math	Level 1	Level 2	Level 3	Level 4
High school Score Ranges	2280-2542	2543-2627	2628-2717	2718-2862



Math Exit Exam Options and Impact

	Target Rate	Cut Score	Grade 11 Matched	Grade 11 All	Grade 10 All
Grade 11 – using matched cohort	75.6% (24.4%)	2469 Level 1	75.6%	74.5%	NA
Between 2 and 3, equivalent to ELA		2595 Level 2	38.9%	37.8%	NA

Smarter Balanced Math	Level 1	Level 2	Level 3	Level 4
High school Score Ranges	2280-2542	2543-2627	2628-2717	2718-2862



Math Exit Exam Options and Impact

	Target Rate	Cut Score	Grade 11 Matched	Grade 11 All	Grade 10 All
Grade 11 – using matched cohort	75.6% (24.4%)	2469 Level 1	75.6%	74.5%	NA
Between 2 and 3, equivalent to ELA		2595 Level 2	38.9%	37.8%	NA
Level 2 CCR	NA	2543 Level 2	54.8%	53.6%	NA
Level 3 CCR	NA	2628 Level 3	29.5%	28.6%	NA

Smarter Balanced Math	Level 1	Level 2	Level 3	Level 4
High school Score Ranges	2280-2542	2543-2627	2628-2717	2718-2862



Questions & Discussion



