

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

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# New Standards, New Tests, New Baselines

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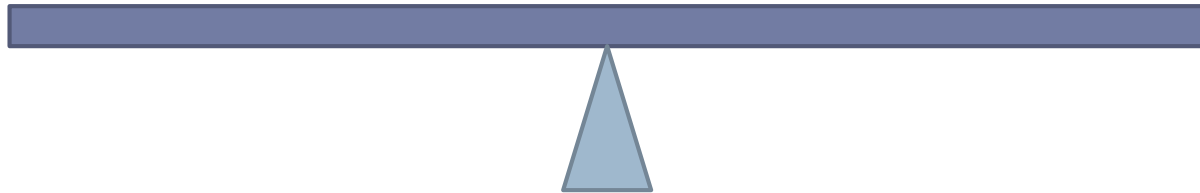
- ▶ Should not compare proficiency rates to previous tests
  - ▶ Increased rigor in learning standards
  - ▶ Increased rigor of tests
- ▶ **BUT**, looking back is necessary for assessment graduation requirements
  - ▶ Legislature gave SBE authority to set lower performance standards on exit exams
  -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

# Your Task is a Balancing Act

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**Ensuring College  
and Career  
Readiness**

**Same Proportion of  
Students Meeting  
Threshold**





(WA - AIM)

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

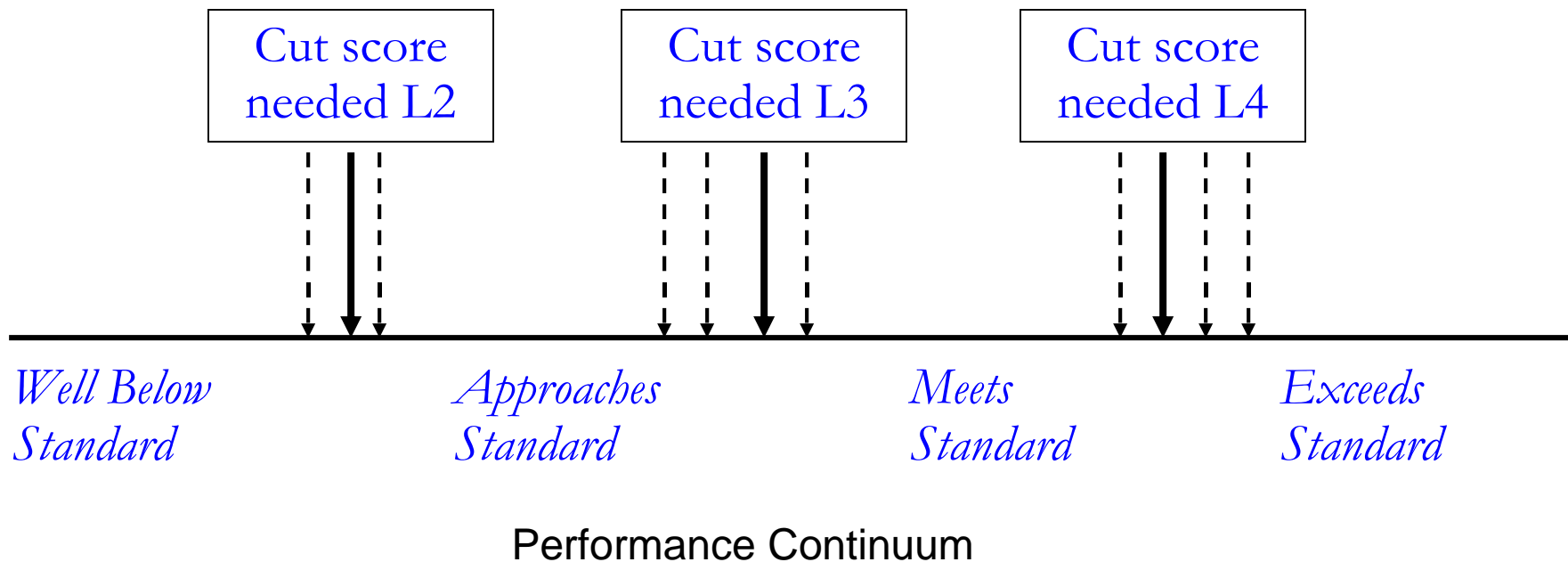
- Designed for students with **significant cognitive challenges** (~1% of students) for whom the general assessments, even with accommodations, are not accessible.
- WA-AIM is based on learning standards adapted from the state content standards.
- Performance tasks linked to the adapted learning standards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

# Purposes of WA-AIM

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- 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

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- ▶ 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

<b>ELA</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Level 4</b>
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%



*Proficiency*



# 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%



*Proficiency*



# 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%



# 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

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- 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
<b>Level 1</b>	NA	24.1%	NA	12.1%
<b>Level 2</b>	15	18.8%	9	20.1%
<b>Level 3</b>	19	29.5%	12	29.3%
<b>Level 4</b>	24	27.6%	16	38.5%
<b>Meeting Exit Exam L3 &amp; L4</b>	57%		68%	



# Questions & Discussion





Smarter Balanced  
English Language Arts Test

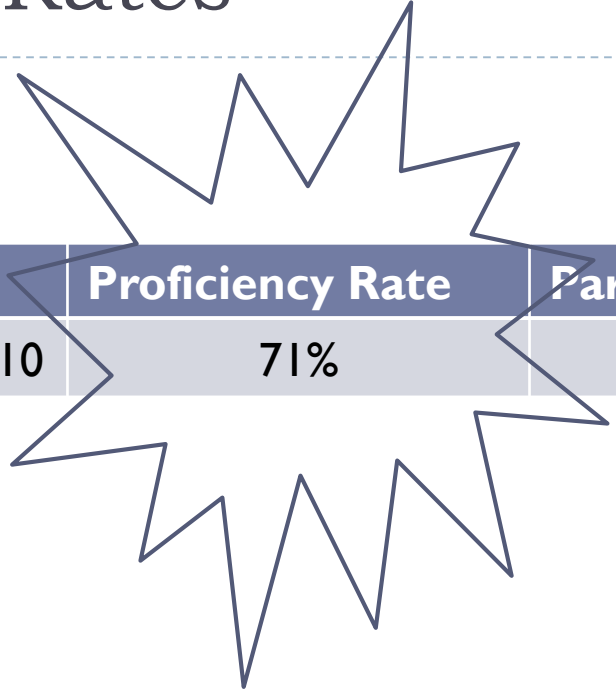
# ELA College and Career Ready Proficiency Rates

	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 <sup>th</sup> graders enrolled in 2014 – 2015	81,225	81,225
11 <sup>th</sup> graders who took Smarter Balanced	38,113	35,248
11 <sup>th</sup> graders who took Smarter Balanced and have prior scores	33,567	31,957
10 <sup>th</sup> graders enrolled in 2014 - 2015	81,934	81,934
10 <sup>th</sup> 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

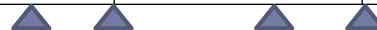




# Math Exit Exam Options and Impact

	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





Thank you!

