



# THE WASHINGTON STATE BOARD OF EDUCATION

*A high-quality education system that prepares all students for college, career, and life.*

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## Title: Update on High School Assessments—10<sup>th</sup> Grade Career- and College-ready Level and 2017

### Participation Information

<b>As related to:</b>	<input type="checkbox"/> <b>Goal One:</b> Develop and support policies to close the achievement and opportunity gaps.	<input checked="" type="checkbox"/> <b>Goal Three:</b> Ensure that every student has the opportunity to meet career and college ready standards.
	<input type="checkbox"/> <b>Goal Two:</b> Develop comprehensive accountability, recognition, and supports for students, schools, and districts.	<input type="checkbox"/> <b>Goal Four:</b> Provide effective oversight of the K-12 system.
		<input type="checkbox"/> <b>Other</b>
<b>Relevant to Board roles:</b>	<input type="checkbox"/> Policy leadership	<input type="checkbox"/> Communication
	<input checked="" type="checkbox"/> System oversight	<input type="checkbox"/> Convening and facilitating
	<input type="checkbox"/> Advocacy	

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**Policy considerations / Key questions:** Information shared with the Board during this agenda item may inform the Board regarding the Board's directive by the Legislature to identify, in consultation with OSPI, career- and college-readiness scores and high school graduation scores on high school assessments.

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**Relevant to business item:** No business item is associated with this agenda item.

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**Materials included in packet:** OPSI presentation (included in Additional Materials).

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**Synopsis:** The Board will hear a brief introduction by staff, followed by a presentation by Dr. Deb Came, Assistant Superintendent, OSPI.

This update is to keep the Board informed of work OSPI is doing in partnership with the Smarter Balanced Consortium to prepare to make a recommendation about the 10<sup>th</sup> grade on-track for career- and college-readiness score. As directed in HB 2224, the State Board of Education (SBE), in consultation with the Office of the Superintendent of Public Instruction (OSPI), must report to the Legislature on identifying the performance standard for 10<sup>th</sup> graders to be on-track for career and college readiness by December 1, 2018.

In addition, OSPI will report on 2017 assessment participation and results. The Board identified scores for high school graduation on the high school Smarter Balanced assessments in July 2015. Participation and results data from 2017, and eventually 2018, may be used in reviewing and possibly revisiting the high school graduation scores. This report is a follow-up to discussion between OSPI and the SBE in September 2017.

OSPI will also include an introduction to the Board on the proposed process for standard setting on the Washington Comprehensive Assessment of Science.

Members may wish to review the September 2017 Board meeting materials:

- [The Board packet memo that summarizes HB 2224](#)
- [Introduction PowerPoint that summarizes the Board's responsibilities regarding HB 2224 and assessments](#)
- [OSPI PowerPoint on the 10<sup>th</sup> Grade on-track to college- and career-ready score](#)

# Update on High School Assessments

PRESENTATION TO THE WASHINGTON STATE BOARD OF EDUCATION  
NOVEMBER 8, 2017

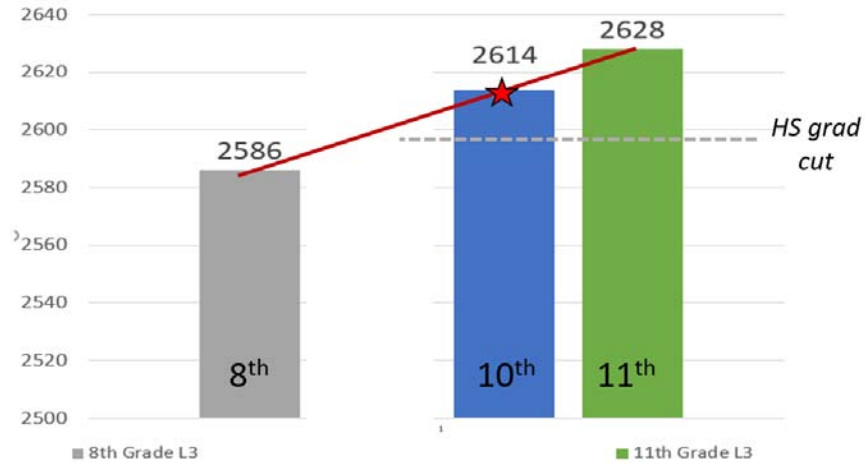


## Topics

- 10<sup>th</sup> Grade Assessments: On Track to Career and College Ready – update
- 2017 Participation rate information
- 2018 plan for Washington Comprehensive Assessment of Science (with Next Generation Science Standards)



## Level 3 (Meeting standard) cut-scores



### 10<sup>th</sup> Grade On Track to College and Career Ready: Timeline of Steps

Conversations with Smarter Balanced	July 2017–Oct. 2017
OSPI Internal Test Review: <ul style="list-style-type: none"> <li>• Item Specifications</li> <li>• Standards</li> <li>• Test Blueprint</li> </ul>	July 2017– Oct. 2017
OSPI’s Assessment National Technical Advisory Committee	Sept. 7–8, 2017
SBE meeting	Sept. 14, 2017
<i>Online advisory panel of WA educators and content experts</i>	<i>Sept. 2017– Oct. 2017</i>
<i>In-person advisory workgroup of WA educators</i>	<i>Oct. 17–18, 2017</i>
<i>In-person Smarter Balanced grade 10 cut-score validation</i> <ul style="list-style-type: none"> <li>• <i>Includes educators from multiple Smarter Balanced consortium states</i></li> </ul>	<i>Nov. 2–3, 2017</i>
SBE meeting	Nov. 8–9, 2017

Placeholder for recap of Smarter Balanced  
cut-score validation meeting  
(week of October 30 – November 3)

## 2017 High School Assessment Participation Rate Information

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## Participation Rates - MSP, HSPE, EOC

	2012		2013		2014	
	Math	ELA	Math	ELA	Math	ELA
3 <sup>rd</sup>	99.8	99.8	99.8	99.8	98.1	98.1
4 <sup>th</sup>	99.9	99.8	99.8	99.9	98.2	98.3
5 <sup>th</sup>	99.9	99.9	99.9	99.9	98.1	98.3
6 <sup>th</sup>	99.9	99.8	99.8	99.8	97.5	97.4
7 <sup>th</sup>	99.7	99.7	99.7	99.6	97.5	97.6
8 <sup>th</sup>	97.7	99.6	99.6	99.5	96.4	97.1
10 <sup>th</sup>	97.8	<i>Class of 2014</i> 95.8	98.3	<i>Class of 2015</i> 96.2	93.4	<i>Class of 2016</i> 94.6

## Participation Rates - Smarter Balanced

	2015		2016		2017	
	Math	ELA	Math	ELA	Math	ELA
3 <sup>rd</sup>	97.9	98.0	98.1	98.1	98.3	98.3
4 <sup>th</sup>	97.8	98.0	98.2	98.2	98.3	98.2
5 <sup>th</sup>	97.8	98.0	98.1	98.1	98.3	98.3
6 <sup>th</sup>	97.5	97.7	98.0	98.1	98.1	98.2
7 <sup>th</sup>	96.8	97.1	97.4	97.5	97.8	97.9
8 <sup>th</sup>	96.0	96.4	96.7	97.1	97.1	97.4
11 <sup>th</sup>	45.5	<i>Class of 2016</i> 49.7	61.4	<i>Class of 2017</i> 88.0	61.8	<i>Class of 2018</i> 86.7

## 2017 High School Test Participation Rate

	Math	ELA		Math	ELA
Amer Indian-Alaskan Nat.	64	75	Low income	65	82
Asian	57	92	Special education	53	57
Black-African American	59	80	English learners	73	77
Hispanic-Latino	68	84			
Pacific Islander	67	79			
White	60	88			
Two or More Races	61	88	<b>ALL STUDENTS</b>	<b>62</b>	<b>87</b>



## Accountability Testing by Cohort

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Class of 2013	11	12								
Class of 2014	10	11	12							
Class of 2015	9	10	11	12						
Class of 2016	8	9	10	11	12					
Class of 2017		8	9	10	11	12				
Class of 2018			8	9	10	11	12			
Class of 2019					9	10	11	12		
Class of 2020						9	10	11	12	
Class of 2021							9	10	11	12
	EOC Math, HSPE ELA			Smarter Balanced 11th			Smarter Balanced 10th			

accountability testing grade

may have taken different test to count toward graduation (that wouldn't have 'banked' toward accountability)



## Smarter Balanced Testing by Grade

ELA	Class of 2016		Class of 2017		Class of 2018		Class of 2019	
	#	Pass %	#	Pass %	#	Pass %	#	Pass %
10 <sup>th</sup>	n/a	n/a	73,757	72.4	76,181	72.2	73,973	73.9
11 <sup>th</sup>	39,439	50.4	16,824	32.5	16,498	28.5	In 2018	
12 <sup>th</sup>	2,170	23.1	3,229	23.9	In 2018		In 2019	

Math	Class of 2016		Class of 2017		Class of 2018		Class of 2019	
	#	Pass %	#	Pass %	#	Pass %	#	Pass %
10 <sup>th</sup>	n/a	n/a	1,140	35.4	19,222	57.9	30,018	68.1
11 <sup>th</sup>	36,254	28.9	49,100	34.5	39,016	26.0	In 2018	
12 <sup>th</sup>	2,226	14.3	2,552	9.8	In 2018		In 2019	

## ELA results in 2017

10 <sup>th</sup> graders (Class of 2019)	%	N	11 <sup>th</sup> graders (Class of 2018)	%	N
Level 1	9.3	6,904	Level 1	35.3	5,292
Level 2 (below grad cut)	8.2	6,092	Level 2 (below grad cut)	21.0	3,151
Level 2 (meeting grad cut)	8.5	6,287	Level 2 (meeting grad cut)	14.8	2,215
Level 3	39.0	28,860	Level 3	24.0	3,589
Level 4	34.9	<u>25,800</u>	Level 4	4.9	<u>733</u>
		73,943			14,980

Among tested,  
Percent meeting standard: 73.9  
Percent meeting grad cut: 82.4

Among tested,  
Percent meeting standard: 28.9  
Percent meeting grad cut: 43.6



## Math results in 2017

10 <sup>th</sup> graders (Class of 2019)	%	N	11 <sup>th</sup> graders (Class of 2018)	%	N
Level 1	12.2	3,660	Level 1	43.3	16,857
Level 2 (below grad cut)	10.0	3,009	Level 2 (below grad cut)	19.4	7,570
Level 2 (meeting grad cut)	9.7	2,902	Level 2 (meeting grad cut)	11.2	4,374
Level 3	35.3	10,585	Level 3	18.9	7,338
Level 4	32.9	<u>9,862</u>	Level 4	7.2	2,799
		30,018			38,938

Among tested,  
 Percent meeting standard: 68.1  
 Percent meeting grad cut: 77.8

Among tested,  
 Percent meeting standard: 26.1  
 Percent meeting grad cut: 37.3



## 2018 plan for Washington Comprehensive Assessment of Science (Next Generation Science Standards)





## Next Generation Science Standards

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NGSS are based on the *Framework for K–12 Science Education* developed by the National Research Council.

Every NGSS standard has three dimensions:

- ❖ Disciplinary core ideas (content)
- ❖ Scientific and engineering practices
- ❖ Cross-cutting concepts

The NGSS are aligned, by grade level and cognitive demand with the English Language Arts and Mathematics Common Core State Standards.



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## Washington Comprehensive Assessment of Science (WCAS)

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Assessment to be administered for the first time in Spring 2018 and is based on Next Generation Science Standards

Grades 5, 8, and 11

Testing is all online

WCAS will reflect the three dimensions of the performance expectations. Each item on the test will be written to gather evidence of two to three dimensions.



## Dimensions of NGSS learning standards

Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts
1. Asking questions (for science) and defining problems (for engineering)	<b><u>Physical Sciences</u></b> PS1 Matter and Its Interactions PS2 Motion and Stability: Forces and Interactions PS3 Energy PS4 Waves and Their Applications in Technologies for Information Transfer	1. Patterns 2. Cause and effect 3. Scale, proportion, and quantity 4. Systems and system models
2. Developing and using models		5. Energy and matter
3. Planning and carrying out investigations		6. Structure and function
4. Analyzing and interpreting data	<b><u>Life Sciences</u></b> LS1 From Molecules to Organisms: Structures and Processes LS2 Ecosystems: Interactions, Energy, and Dynamics LS3 Heredity: Inheritance and Variation of Traits LS4 Biological Evolution: Unity and Diversity	7. Stability and change
5. Using mathematics and computational thinking		
6. Constructing explanations (for science) and designing solutions (for engineering)	<b><u>Earth and Space Sciences</u></b> ESS1 Earth's Place in the Universe / ESS2 Earth's Systems ESS3 Earth and Human Activity	
7. Engaging in argument from evidence	<b><u>Engineering, Technology, &amp; Application of Science</u></b> ETS1 Engineering Design	
8. Obtaining, evaluating, and communicating information		



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## WCAS: Events to Present Time

Date	Event
Oct 2013	NGSS Adopted
May 2015	NTAC Initial Review of WCAS and Assessment Challenges
Sept 2015	NTAC Review of SAIC Assessment Framework
Oct 2015	Item development begins
Jan 2016	NTAC Review of Proposed Test Structure, Measurement Model, & Reporting
Apr 2016	Limited pilot, grades 5 and 8
Sept 2016	NTAC Review of Reporting Claims & Test Design Meeting Plan
Nov 2016	Test Design Meeting: Analysis of assessable standards and prioritization
Apr – May 2017	Field test embedded, grades 5 and 8. Voluntary, online field test for high school
May 2017	NTAC Review of Paper/Pencil Form Considerations & Future Events
Sept 2017	NTAC Review & Approval of Achievement Level Setting Plan
Oct 2017	Training test and draft item specifications available

## WCAS: Upcoming Events

Date	Event
Nov 2017	SBE Briefed on WCAS & Achievement Level Setting Plan
Nov 2017	Draft Achievement Level Descriptors Developed
Jan 2018	SBE Approval of Achievement Level Setting Plan
Feb 2018	Alignment Study
Winter '17/'18	Teachers from across state trained on ALDs
Feb-Apr 2018	Contrasting Groups Study - Teachers use ALDs to provide ratings of students
Mar-Jun 2018	WCAS Operational Exam
Aug 2018	Achievement Level Setting <ul style="list-style-type: none"> <li>• Grade-level panels</li> <li>• Articulation panel</li> <li>• NTAC certifies process was followed</li> </ul>
Aug 2018	SBE adopts cut-scores

## Contact

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