

# 2015 State PARCC Results

A webinar for school and district leaders

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October 30, and Nov. 2, 2015

MASSACHUSETTS DEPARTMENT OF  
ELEMENTARY AND SECONDARY  
**EDUCATION**

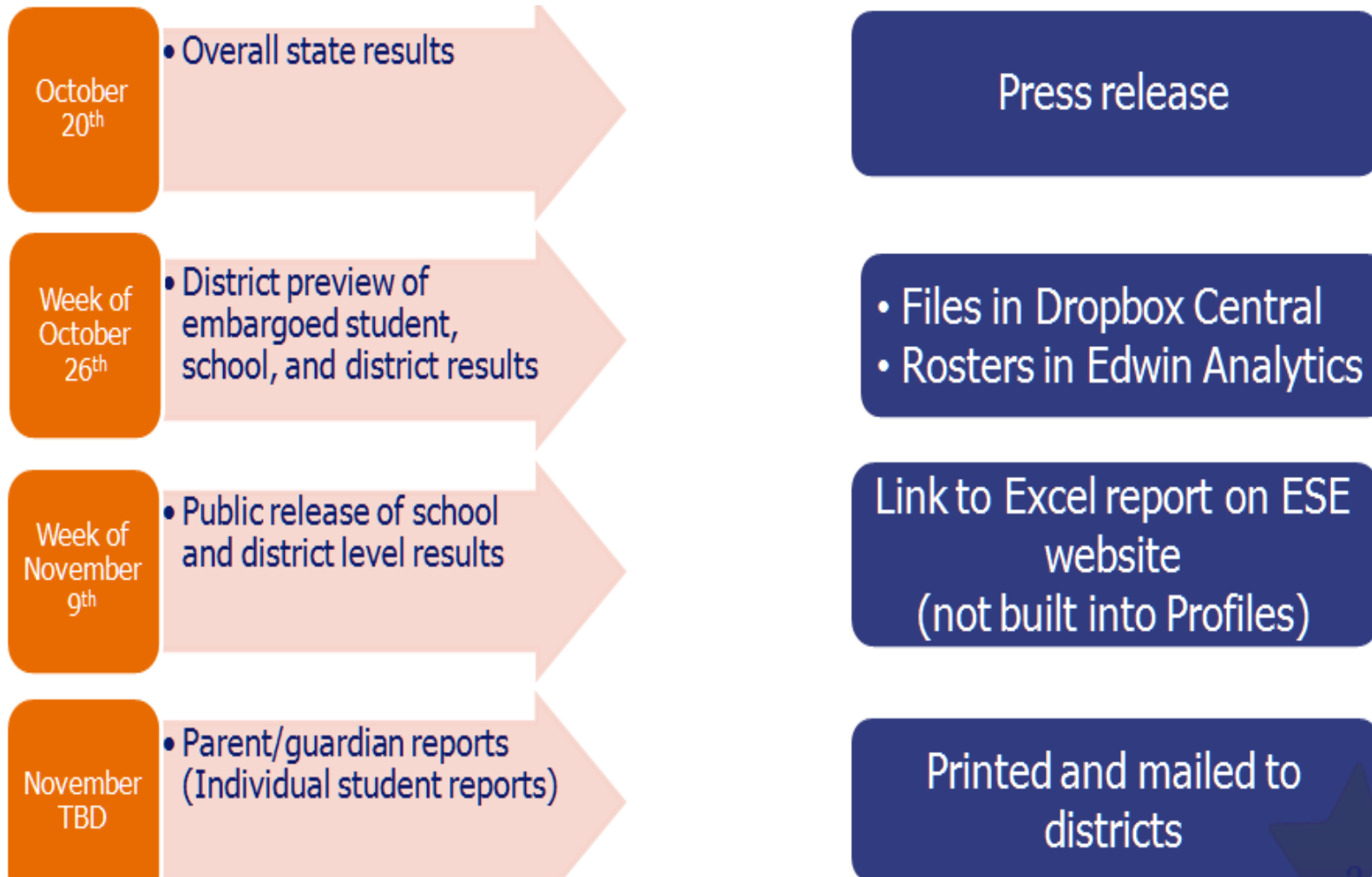


# Topics

- ★ A review of the outcomes of the 2015 MCAS/PARCC choice and participation
  - ★ A reminder about representative samples and PARCC participation policies in 2015
- ★ 2015 state PARCC results: combined online and paper
- ★ A comparison of MCAS and PARCC across the grades
- ★ Comparisons of PARCC, MCAS and NAEP results
- ★ Commissioner's remarks to the Board regarding MCAS/PARCC decision
- ★ Reporting PARCC results to districts, schools, parents
- ★ PARCC Edwin Analytics Reports



# How will results be delivered?



# Assessment Choices for Spring 2015

Spring 2015	Number of public districts	MCAS			PARCC		
		# of districts	% of districts	# of students	# of districts	% of districts	# of students
Grades 3-8	359	165	46%	202,000	194	54%	229,500
PARCC for Grade 9 and/or 11 (optional)	295	N/A	N/A	N/A	69	23%	22,500

## 2015 Participation Rates

Spring 2015	Enrolled	Tested	Part. Rate
MCAS Grades 3-8	202,000	200,000	99%
PARCC Grades 3-8	229,500	223,500	98%
MCAS Grade 10	71,500	70,000	98%



# What are the Representative Samples?

- ★ Large groups (71% to 75%) of the students who took PARCC or MCAS in grades 3-8 in 2015
- ★ Selected statistically to match the state population
  - ★ On achievement variables
  - ★ Demographically (race/ethnicity, income and special needs)
- ★ Identified in spring **before** 2015 test scores were available



# Why use Representative Samples?

- 1. Because the districts choosing MCAS were different from the districts choosing PARCC.** In particular, MCAS districts had 10% fewer low income students than PARCC students.
- 2. To estimate “state” results** when showing trends and on summaries given to parents and the public.
- 3. To make other calculations for the accountability system;** such as measures of growth and progress toward closing the achievement gap. PARCC schools will receive accountability ratings in 2015 but will be “held harmless.”



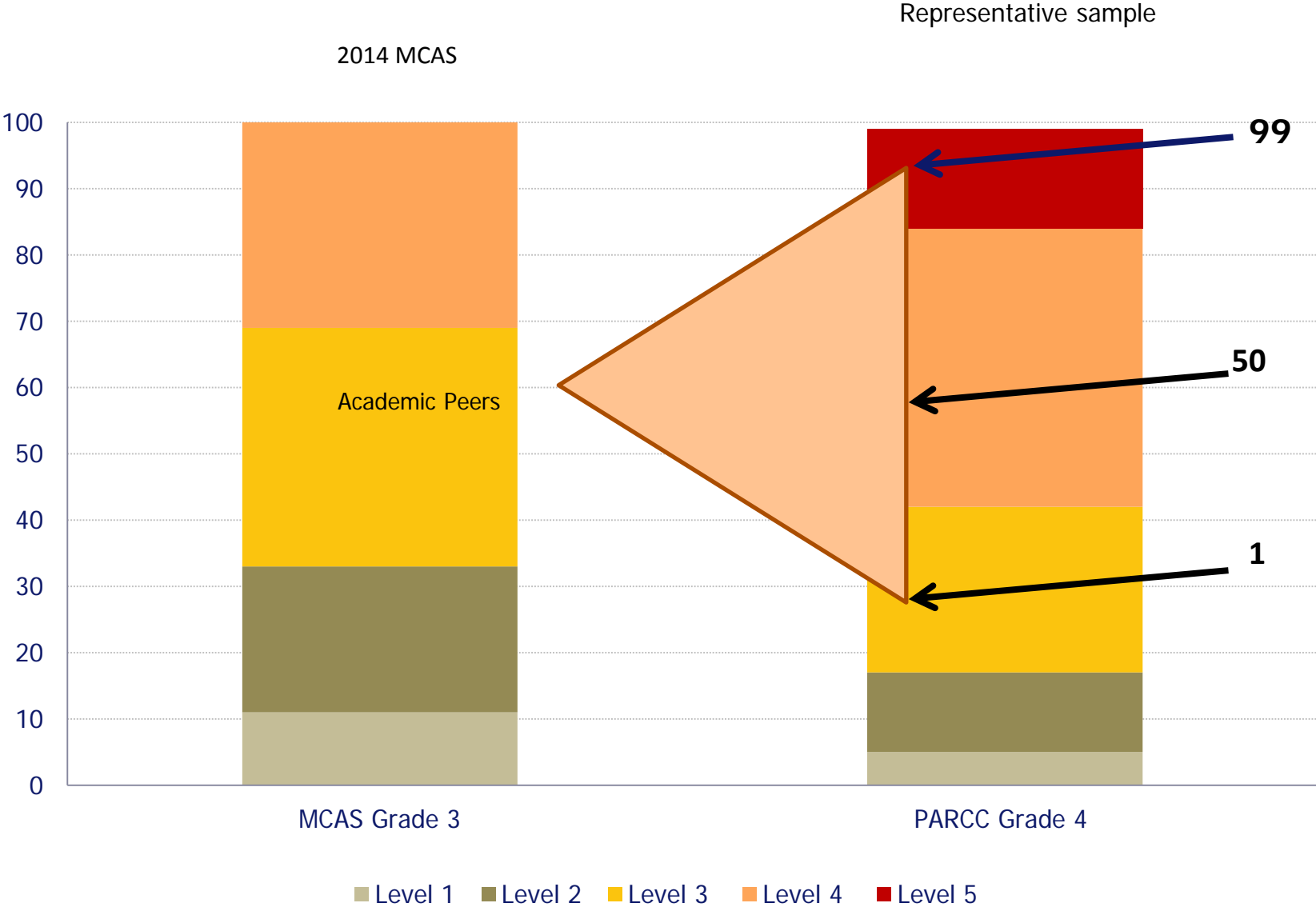
# Different Scales and Achievement Levels

PARCC Achievement Levels		Scaled Score Range
Level 5	Exceeded expectations	Varies by grade - 850
Level 4	Met expectations	750- varies by grade
Level 3	Approached expectations	725-749
Level 2	Partially met expectations	700-724
Level 1	Did not yet meet expectations	650-699

MCAS Achievement Levels	Scaled Score Range
Advanced	260-280
Proficient	240-258
Needs Improvement	220-238
Warning (3-8) Failing (HS)	200-218

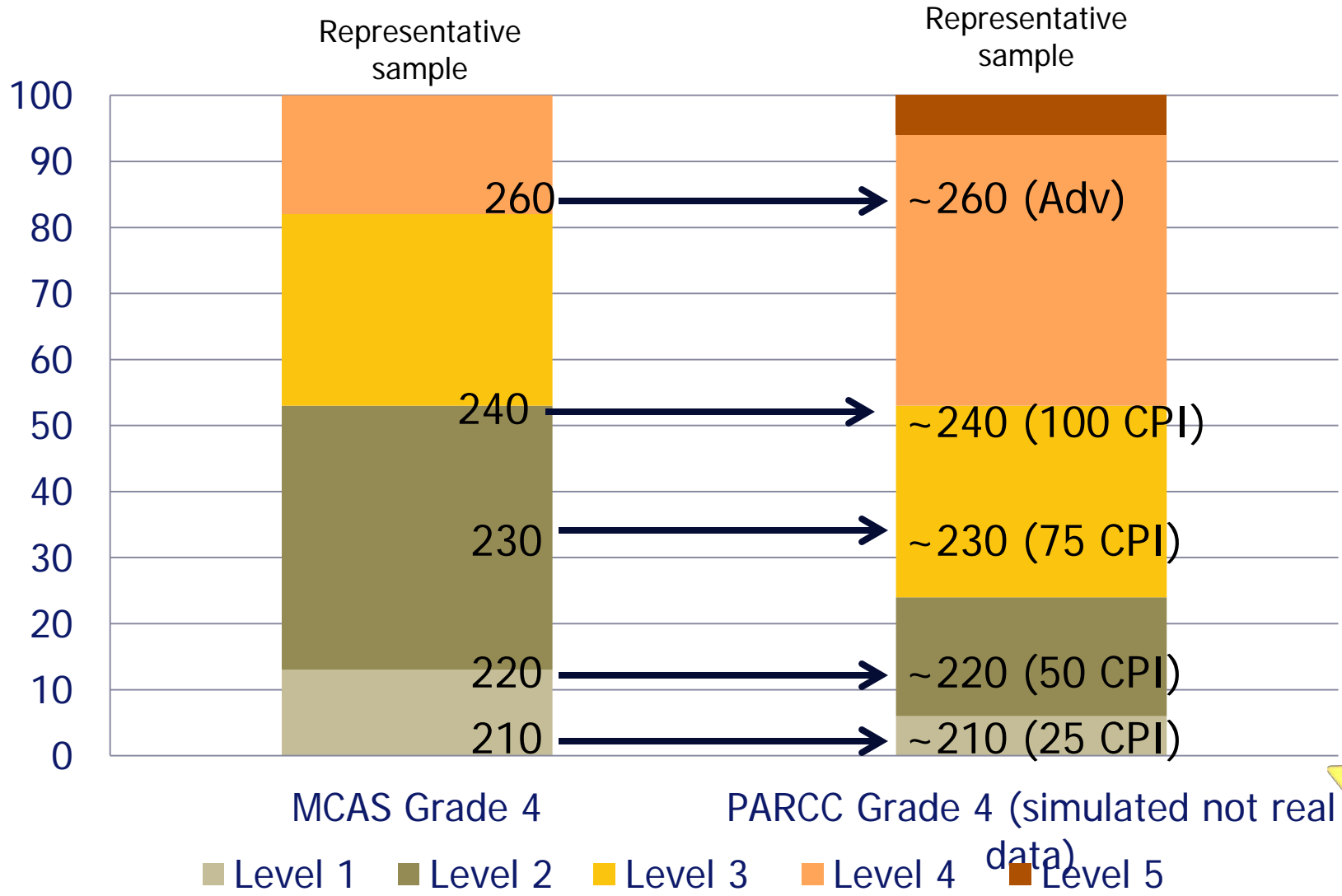


# 2015 PARCC Transitional Student Growth Percentiles





# Equipercntile Linking



# About the PARCC Data

- ★ Results embargoed until November 9
- ★ MCAS-Alt results are **not** included in school and district CPI calculations. They will be included in the public release.
- ★ Students who did not attempt one or more units are not included in achievement or SGP results; they are counted as non-participants if enrolled in the same school during the testing window.
- ★ First-year ELL students are not included in achievement and SGP results even if they are fully tested.



# About the PARCC Data (cont.)

- ★ ELL students who did not participate in ACCESS for ELLs are counted as non-participants even if they are fully tested.
- ★ School achievement results only include students enrolled in the school since October, 2014.
- ★ District results include all tested students including outplacements.
- ★ District and school SGP results only include students enrolled in the school since October, 2014.



# School and District Results

- ★ 752 Schools participated in 3-8 testing; 113 in Grades 9-11
- ★ School level results ranged widely from 0% reaching levels 4&5 to 95% in our top achieving school
- ★ Math results were about 8 percentage points lower than ELA results
- ★ Only grade 3-8 schools receive transitional CPIs



# Mass. PARCC State\* Results: **ELA**

	Meeting Expectations				
	Level 1	Level 2	Level 3	Level 4	Level 5
Grade 3	10%	14%	22%	47%	7%
Grade 4	5%	12%	25%	42%	15%
Grade 5	4%	10%	23%	55%	8%
Grade 6	4%	11%	25%	48%	12%
Grade 7	6%	11%	22%	40%	21%
Grade 8	5%	10%	20%	48%	16%
All (3-8)	6%	12%	23%	47%	13%



\*State Representative Sample

Massachusetts Department of Elementary and Secondary Education

# Mass. PARCC State\* Results: **ELA**

	Not Meeting Expectations (Levels 1-3)	Meeting Expectations (Levels 4 & 5)
Grade 3	46%	54%
Grade 4	43%	57%
Grade 5	37%	63%
Grade 6	40%	60%
Grade 7	40%	60%
Grade 8	36%	64%
All (3-8)	40%	60%

\*State Representative Sample

Massachusetts Department of Elementary and Secondary Education



# Mass. PARCC State\* Results: **Math**

	Meeting Expectations				
	Level 1	Level 2	Level 3	Level 4	Level 5
Grade 3	6%	14%	25%	43%	12%
Grade 4	6%	18%	29%	41%	6%
Grade 5	5%	15%	26%	44%	11%
Grade 6	5%	14%	28%	44%	10%
Grade 7	5%	18%	32%	37%	8%
Grade 8	10%	15%	22%	43%	10%
Grade 8 Algebra I	1%	4%	15%	66%	14%
All (3-8)	6%	16%	27%	42%	10%



\*State Representative Sample

Massachusetts Department of Elementary and Secondary Education

# Mass. PARCC State\* Results: **Math**

	Not Meeting Expectations (Levels 1-3)	Meeting Expectations (Levels 4 & 5)
Grade 3	45%	55%
Grade 4	53%	47%
Grade 5	45%	55%
Grade 6	47%	53%
Grade 7	55%	45%
Grade 8	47%	53%
Gr. 8 Alg. I	20%	80%
All (3-8)	48%	52%

\*State Representative Sample

Massachusetts Department of Elementary and Secondary Education





# Mass. PARCC State Results:

## Grades 9, 11

		Level 1	Level 2	Level 3	College and Career Ready	
					Level 4	Level 5
ELA/L	Grade 9*	17%	19%	25%	31%	8%
	Grade 11*	19%	19%	22%	29%	10%
Math End of Course Tests	Algebra I – HS*	17%	33%	28%	21%	1%
	Geometry*	5%	23%	36%	34%	2%
	Algebra II*	45%	25%	17%	12%	1%
	Int. Math I*	11%	18%	22%	37%	12%
	Int. Math III*	34%	26%	30%	9%	1%



\*No Representative Sample could be drawn;  
participation was voluntary

# PARCC and MCAS High School Results

	PARCC Tests	Level 1	Level 2	Level 3	College and Career Ready	
					Level 4	Level 5
ELA/L	Grade 9*		61%		39%	
	Grade 11*		61%		39%	
Math End of Course Tests	Algebra I – HS*		78%		22%	
	Geometry*		64%		36%	
	Algebra II*		87%		13%	
	Int. Math I*		51%		49%	
	Int. Math III*		89%		11%	

MCAS Tests	Failing	Needs Imp.	Prof.	Adv.
Gr. 10 ELA		9%		91%
Grade 10 Math		21%		79%

\*No Representative Sample could be drawn;  
participation was voluntary



# 2015 PARCC and MCAS Results—Statewide

Percent of Students Scoring <i>Proficient</i> or Higher on MCAS or <i>Meeting Expectations</i> on PARCC						
	English Language Arts			Mathematics		
	PARCC*	MCAS*	Difference	PARCC*	MCAS*	Difference
Grade 3	54%	60%	-6	55%	70%	-15
Grade 4	57%	53%	+4	47%	47%	0
Grade 5	63%	71%	-8	55%	67%	-12
Grade 6	60%	71%	-11	53%	62%	-9
Grade 7	60%	70%	-10	45%	51%	-6
Grade 8	64%	80%	-16	53%	60%	-7
Grade 8 Algebra I	NA	NA	NA	80%	NA	NA
All Grades	60%	68%	-8	52%	60%	-8

\* Statistically representative samples were used to report state trends in grades 3-8

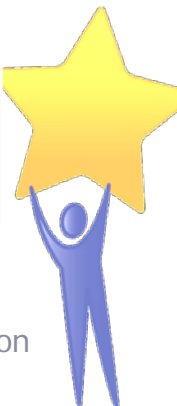


# 2015 PARCC performance by 2014 MCAS achievement level: **Grade 4 ELA** (N=27,120)

2014 MCAS Gr. 3 Level	2015 PARCC Achievement Level*				
	Level 1	Level 2	Level 3	Meeting Expectations Level 4      Level 5	
Advanced	0%	0%	2%	40%	<b>58%</b>
Proficient	0%	2%	17%	<b>62%</b>	20%
Needs Improvement	4%	21%	<b>45%</b>	29%	1%
Warning	33%	<b>43%</b>	21%	3%	0%
All Grade 4 ELA	5%	12%	25%	<b>42%</b>	15%

\*State Representative Sample

Massachusetts Department of Elementary and Secondary Education

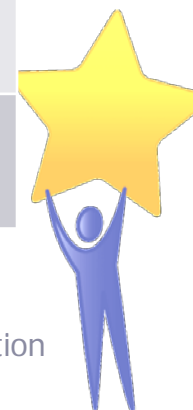


# 2015 PARCC performance by 2014 MCAS achievement level: **Grade 4 Math** (N=26,265)

2014 MCAS Gr. 3 Level	2015 PARCC Achievement Level*				
	Level 1	Level 2	Level 3	Meeting Expectations Level 4      Level 5	
Advanced	0%	1%	8%	<b>70%</b>	21%
Proficient	1%	9%	38%	<b>51%</b>	1%
Needs Improvement	6%	38%	<b>46%</b>	11%	0%
Warning	35%	<b>50%</b>	14%	2%	0%
All Grade 4 Math	6%	18%	29%	<b>41%</b>	6%

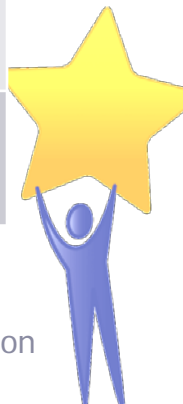
\*State Representative Sample

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# 2015 PARCC performance by 2014 MCAS achievement level: **Grade 8 ELA** (N=27,804)

2014 MCAS Gr. 7 Level	2015 PARCC Achievement Level*				
	Level 1	Level 2	Level 3	Meeting Expectations Level 4      Level 5	
Advanced	0%	0%	1%	36%	<b>63%</b>
Proficient	1%	3%	18%	<b>64%</b>	14%
Needs Improvement	12%	32%	<b>42%</b>	15%	0%
Warning	<b>50%</b>	39%	10%	1%	0%
All Grade 8 ELA	5%	10%	20%	<b>48%</b>	16%



\*State Representative Sample

# 2015 PARCC performance by 2014

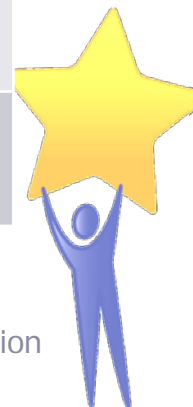
## MCAS achievement level: **Grade 8 Math**

(N=23,416)

2014 MCAS Gr. 7 Level	2015 PARCC Achievement Level*				
	Level 1	Level 2	Level 3	Meeting Expectations	
				Level 4	Level 5
Advanced	0%	0%	1%	<b>48%</b>	51%
Proficient	0%	3%	15%	<b>75%</b>	7%
Needs Improvement	5%	19%	<b>44%</b>	32%	0%
Warning	38%	<b>41%</b>	19%	2%	0%
All Grade 8 Math	10%	15%	22%	<b>43%</b>	10%

\*State Representative Sample

Massachusetts Department of Elementary and Secondary Education



# 2015 PARCC and MCAS Results in Grades 3–8 for Student Groups

- ★ English Language Learners
- ★ High Needs Groups
- ★ Race/Ethnicity Groups

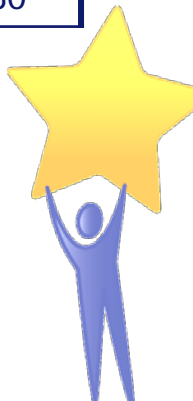




# PARCC and MCAS Results by Race/Ethnicity: English Language Arts

ELA	Afr. American/Black		Hispanic/Latino		Asian		White		All Students	
	PARCC 2015* Levels 4 & 5 (%)	MCAS 2015* P & A (%)	PARCC 2015* Levels 4 & 5 (%)	MCAS 2015* P & A (%)	PARCC 2015* Levels 4 & 5 (%)	MCAS 2015* P & A (%)	PARCC 2015* Levels 4 & 5 (%)	MCAS 2015* P & A (%)	PARCC 2015* Levels 4 & 5 (%)	MCAS 2015* P & A (%)
Grade 3	33	40	32	36	72	69	61	68	54	60
Grade 4	35	38	36	31	76	65	65	59	57	53
Grade 5	42	53	41	46	78	79	70	77	63	71
Grade 6	40	53	39	46	78	81	67	78	60	71
Grade 7	40	51	40	45	80	82	68	76	60	70
Grade 8	45	66	43	62	81	88	70	84	64	80

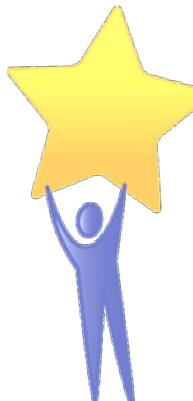
\* Statistically representative samples were used to report state trends in grades 3-8 for ELA and Mathematics



# PARCC and MCAS Results for High Need Groups: English Language Arts

<b>ELA</b>	Economically Disadvantaged		Students With Disabilities		Current and Former English Language Learners		All Students	
	PARCC 2015* 4 & 5 (%)	MCAS 2015* P & A (%)	PARCC 2015* 4 & 5 (%)	MCAS 2015* P & A (%)	PARCC 2015* 4 & 5 (%)	MCAS 2015* P & A (%)	PARCC 2015* 4 & 5 (%)	MCAS 2015* P & A (%)
Grade 3	34	40	20	22	31	33	54	60
Grade 4	39	34	23	16	33	30	57	53
Grade 5	44	51	22	28	34	39	63	71
Grade 6	41	52	18	30	30	39	60	71
Grade 7	42	50	21	29	27	33	60	70
Grade 8	46	65	23	41	26	44	64	80

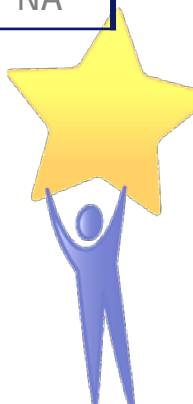
\* Statistically representative samples were used to report state trends in grades 3-8 for ELA and Mathematics



# PARCC and MCAS Results by Race/Ethnicity: **Mathematics**

<b>Math</b>	Afr. American/Black		Hispanic/Latino		Asian		White		All Students	
	PARCC 2015* Levels 4 & 5 (%)	MCAS 2015* P & A (%)	PARCC 2015* Levels 4 & 5 (%)	MCAS 2015* P & A (%)	PARCC 2015* Levels 4 & 5 (%)	MCAS 2015* P & A (%)	PARCC 2015* Levels 4 & 5 (%)	MCAS 2015* P & A (%)	PARCC 2015* Levels 4 & 5 (%)	MCAS 2015* P & A (%)
Grade 3	35	51	34	54	79	83	61	76	55	70
Grade 4	25	29	29	29	78	67	54	53	47	47
Grade 5	36	43	34	43	81	80	61	74	55	67
Grade 6	31	41	32	39	79	79	60	68	53	62
Grade 7	23	25	25	26	74	75	52	56	45	51
Grade 8	33	36	34	38	79	81	59	65	53	60
Gr. 8 Alg I	65	NA	56	NA	92	NA	84	NA	80	NA

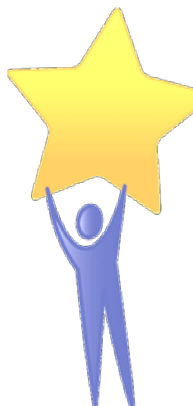
\* Statistically representative samples were used to report state trends in grades 3-8 for ELA and Mathematics



# PARCC and MCAS Results for High Need Groups: **Mathematics**

<b>Math</b>	Economically Disadvantaged		Students With Disabilities		Current and Former English Language Learners		All Students	
	PARCC 2015* 4 & 5 (%)	MCAS 2015* P & A (%)	PARCC 2015* 4 & 5 (%)	MCAS 2015* P & A (%)	PARCC 2015* 4 & 5 (%)	MCAS 2015* P & A (%)	PARCC 2015* 4 & 5 (%)	MCAS 2015* P & A (%)
Grade 3	35	55	23	36	37	53	55	70
Grade 4	29	29	18	16	30	29	47	47
Grade 5	37	46	18	24	33	39	55	67
Grade 6	33	41	15	21	28	33	53	62
Grade 7	54	29	12	13	18	23	45	51
Grade 8	37	40	16	18	25	29	53	60
Gr 8 Alg I	67	NA	54	NA	47	NA	80	NA

\* Statistically representative samples were used to report state trends in grades 3-8 for ELA and Mathematics



# 2015 PARCC performance by 2014 MCAS achievement level: **Grade 9 ELA** (N=7,758)

2014 MCAS Gr. 8 Level		2015 PARCC Achievement Level*				
		Level 1	Level 2	Level 3	Meeting Expectations	
					Level 4	Level 5
Advanced	<b>11%</b>	1%	2%	10%	47%	40%
Proficient	<b>69%</b>	9%	17%	30%	39%	5%
Needs Impr.	<b>14%</b>	38%	39%	20%	3%	0%
Warning	<b>6%</b>	73%	20%	6%	0%	0%
<b>All Grade 9 ELA</b>		<b>16%</b>	<b>19%</b>	<b>25%</b>	<b>32%</b>	<b>8%</b>

\*All students included; Participation was voluntary – no representative sample



# 2015 PARCC performance by 2014 MCAS achievement level: **Algebra II** (N=3,527)

2014 MCAS Gr. 10 Level		2015 PARCC Achievement Level*				
		Level 1	Level 2	Level 3	Meeting Expectations	
					Level 4	Level 5
Advanced	<b>46%</b>	23%	26%	28%	22%	2%
Proficient	<b>33%</b>	60%	32%	8%	1%	0%
Needs Impr.	<b>17%</b>	81%	17%	1%	0%	0%
Failing	<b>4%</b>	90%	10%	0%	0%	0%
<b>All Algebra II</b>		<b>45%</b>	<b>25%</b>	<b>17%</b>	<b>12%</b>	<b>1%</b>

\*All students included; Participation was voluntary –  
no representative sample



# Comparing Massachusetts MCAS, PARCC and NAEP State Results:

## Grade 4

	Percent Meeting Expectations* in Grade 4		
	MCAS (2015)	PARCC (2015)	NAEP (2015)
ELA (Reading for NAEP)	53%	57%	50%
Math	47%	47%	54%

\*Defined as Proficient or higher for MCAS and NAEP, Level 4 or higher for PARCC



# Comparing Massachusetts MCAS, PARCC and NAEP State Results: Grade 8

	Percent Meeting Expectations* in Grade 8		
	MCAS (2015)	PARCC (2015)	NAEP (2015)
ELA (Reading for NAEP)	80%	64%	46%
Math	60%	53%	51%

\*Defined as Proficient or higher for MCAS and NAEP, Level 4 or higher for PARCC





# Commissioner Chester's Remarks Regarding MCAS/PARCC Decision

- ★ "We have upgraded our learning expectations (curriculum frameworks and content standards); it is time to upgrade our assessments to a new generation."
- ★ "In important ways, PARCC sets a higher bar than MCAS for student performance."
- ★ "Any path forward that includes PARCC must be a direction over which we have control."



# Reporting Results to Districts and Schools

- ★ October 29: Preliminary embargoed school and district results (student rosters and .csv files) available in DropBoxes; interactive school and district reports and student rosters available in Edwin Analytics
- ★ October 30: Preliminary embargoed PARCC Excel Workbook available in DropBoxes (ESE-generated)
- ★ Week of November 9: Official school and district results released to the public.



# Released Items, Assessment Resources, and Interpretive Materials

- ★ Released items located at:  
[prc.parcconline.org/assessments/parcc-released-items](http://prc.parcconline.org/assessments/parcc-released-items)
- ★ Resources for Educators at:  
[parconline.org/resources/educator-resources](http://parconline.org/resources/educator-resources)
- ★ Resources for Parents at:
  - ★ [parconline.org/resources/parent-resources](http://parconline.org/resources/parent-resources) (sample tests; score report guides; performance levels)
  - ★ [understandthescore.org/](http://understandthescore.org/) (interpretive and parent engagement materials)
- ★ Resources for Students at:  
[parconline.org/resources/student-resources](http://parconline.org/resources/student-resources)



# Reporting Results to Parents

- ★ Week of November 23: Printed ISR for all grades shipped to district offices
- ★ November TBD: ISR for all grades available electronically in PearsonAccess<sup>next</sup>



Questions?

Student Assessment Services

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781-338-3625

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