



# Student Academic Outcomes and State of Access and Achievement Gaps

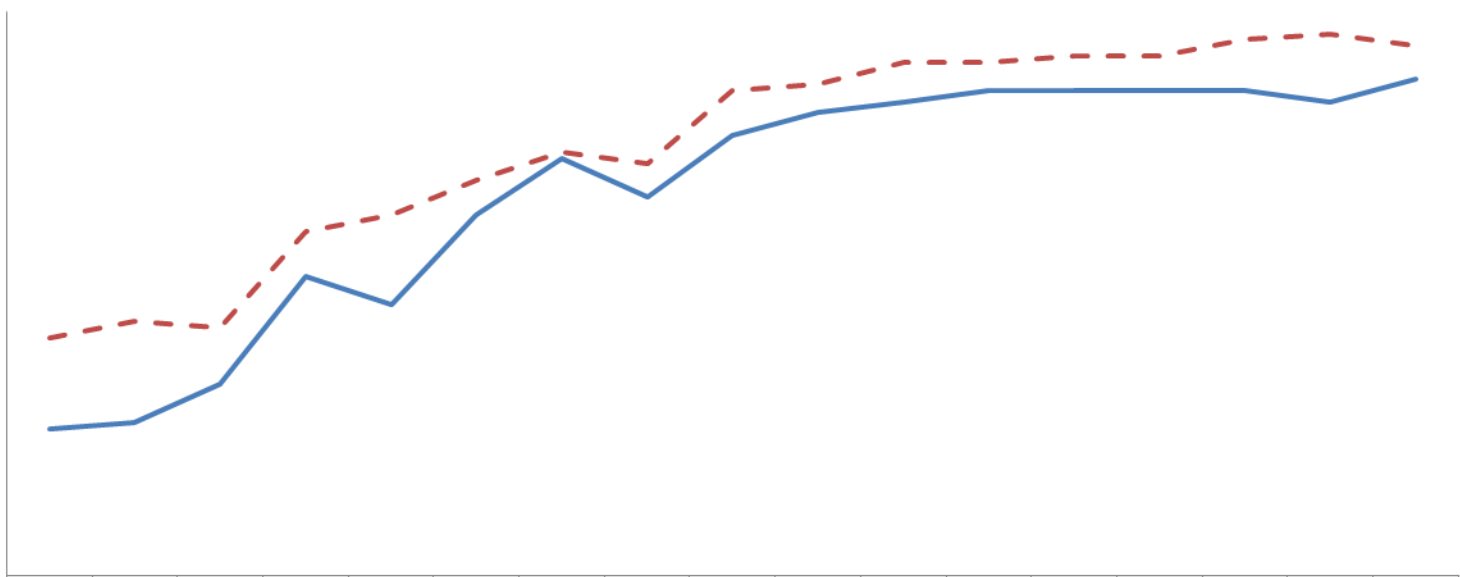
Presentation to School Committee  
May, 2015

# Student Achievement Outcomes



# MCAS Passing Rates in Grade 10 1998-2014

100%  
90%  
80%  
70%  
60%  
50%  
40%  
30%  
20%  
10%  
0%



	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
--- Grade 10 ELA	42%	45%	44%	61%	64%	70%	75%	73%	86%	87%	91%	91%	92%	92%	95%	96%	94%
— Grade 10 Math	26%	27%	34%	53%	48%	64%	74%	67%	78%	82%	84%	86%	86%	86%	86%	84%	88%

➤ In 1998, about one in four high school students earned passing grades on state math exams. Today, 88% pass on their first attempt

➤ 94% of 10th graders pass the MCAS on their first attempt



# Proficiency Rates: English Language Arts

English Language Arts % Proficient & Advanced												
	BPS									State		
	2008	2009	2010	2011	2012	2013	2014	2014-2013 Difference	7-Year Trends	2014	2014-2013 Difference	7-Year Trends
Grade 3	29%	31%	37%	35%	34%	32%	36%	4	7	57%	0	1
Grade 4	25%	30%	30%	30%	31%	29%	31%	2	6	54%	1	5
Grade 5	37%	38%	41%	43%	38%	45%	41%	-4	4	64%	-2	3
Grade 6	43%	43%	44%	42%	38%	42%	44%	2	1	68%	1	1
Grade 7	48%	48%	52%	54%	50%	52%	52%	0	4	72%	0	3
Grade 8	57%	59%	58%	60%	64%	58%	63%	5	6	79%	1	4
Grade 10	58%	64%	60%	67%	73%	79%	76%	-3	18	90%	-1	16
All Grades	42%	45%	46%	47%	46%	47%	49%	2	7	69%	0	5

Exceed or equal State gains

- Gains in Grade 3 for the first time since 2010
- Gains in grades 4,6, and 8 as well
- 7-year trend: gains across all grades, and in all cases, BPS gains exceed state gains, except Grade 6 where both jurisdictions saw a 1-point gain.



# Proficiency Rates: Math

Mathematics % Proficient & Advanced												
	BPS								State			
	2008	2009	2010	2011	2012	2013	2014	2014-2013 Difference	7-Year Trends	2014	2014-2013 Difference	7-Year Trends
Grade 3	36%	33%	43%	41%	39%	47%	53%	6	17	68%	2	7
Grade 4	30%	27%	28%	29%	30%	31%	38%	7	8	52%	0	3
Grade 5	33%	33%	39%	42%	39%	42%	41%	-1	8	61%	0	9
Grade 6	32%	33%	38%	36%	43%	43%	38%	-5	6	60%	-1	4
Grade 7	28%	28%	38%	33%	34%	36%	34%	-2	6	50%	-2	3
Grade 8	34%	28%	34%	34%	35%	37%	37%	0	3	52%	-3	3
Grade 10	59%	62%	60%	62%	65%	64%	64%	0	5	79%	-1	7
All Grades	36%	35%	40%	39%	40%	42%	44%	2	8	60%	1	5

 Exceed or equal State gains

- For the first time, a majority (53%) of 3<sup>rd</sup> graders are proficient in Math.
- Students in grade 4 also made progress.
- In all other grades however, the rate remained unchanged or declined.
- 7-year trends show progress greater than the state in grades 3,4, 6 and 7



# More Students are “On-Track” to Graduate by the End of Grade 10

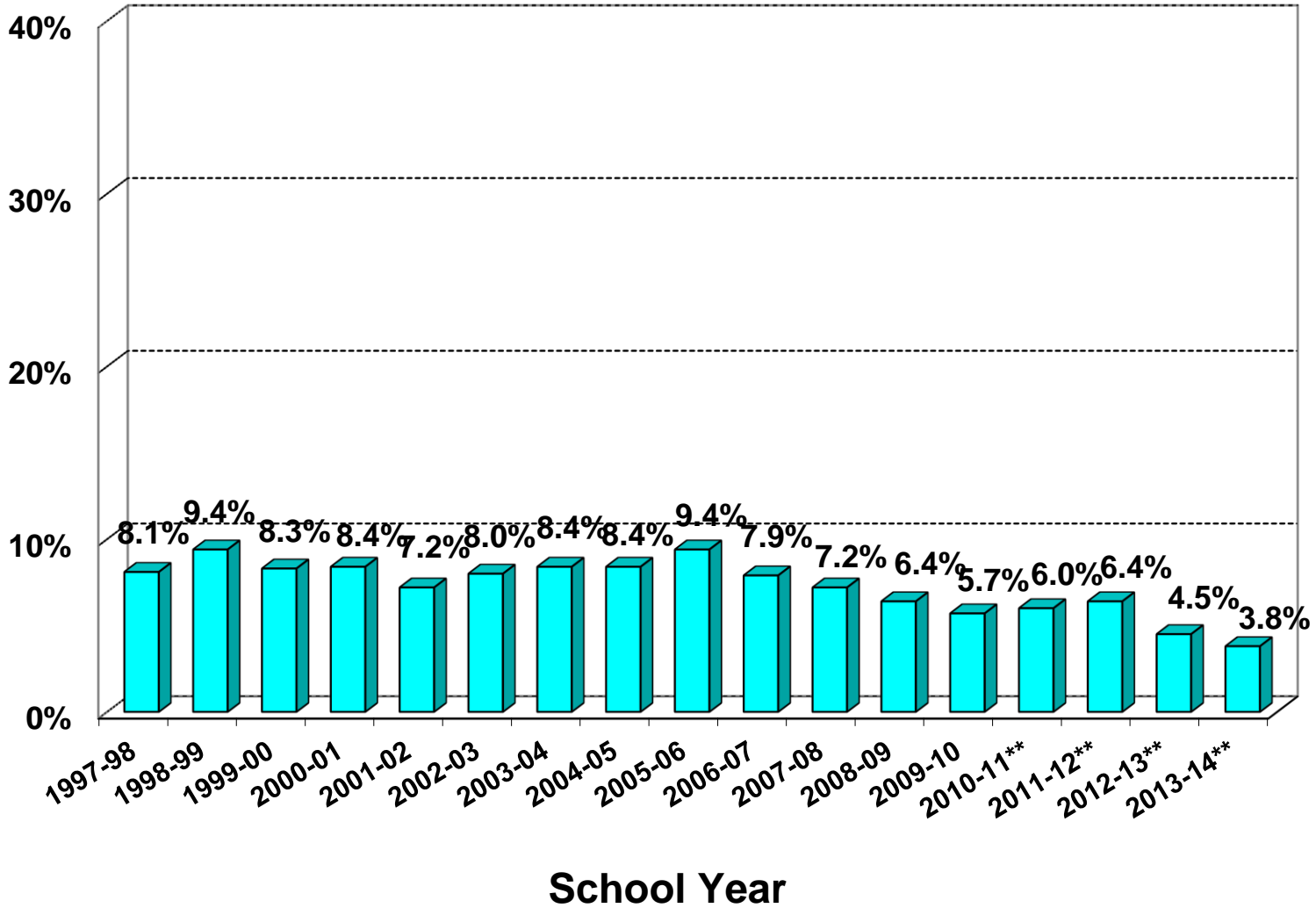
Subgroup	Class of 2016 (N=3920 )					Class of 2015*	Class of 2014*	Class of 2013*	Class of 2012*	Class of 2011*	Class of 2010*
	ELA	Math	ELA and Math	STE	All Three Tests	All Three Tests	All Three Tests	All Three Tests	All Three Tests	All Three Tests	All Three Tests
<b>All Students</b>	90%	83%	81%	83%	<b><u>75%</u></b>	72%	73%	70%	66%	65%	57%
<b>Race/Ethnicity</b>											
AA/Black	90%	81%	77%	80%	<b><u>71%</u></b>	67%	69%	65%	61%	59%	49%
Asian	94%	94%	92%	95%	<b><u>91%</u></b>	89%	91%	87%	85%	89%	86%
Latino/Hispanic	87%	80%	76%	78%	<b><u>70%</u></b>	66%	67%	63%	61%	60%	50%
White	96%	91%	90%	92%	<b><u>88%</u></b>	87%	82%	85%	81%	82%	75%
<b>Other Student Groups</b>											
Students w/ Disab	74%	60%	55%	61%	<b><u>46%</u></b>	42%	42%	37%	35%	31%	22%
ELL/Former ELL	81%	74%	68%	72%	<b><u>60%</u></b>	52%	55%	54%	42%	43%	34%
Low Income	90%	82%	79%	82%	<b><u>73%</u></b>	70%	71%	66%	63%	63%	56%

Percentage of students passing all three MCAS subjects in grade 10 is up substantially (18 points) since 2008 when Class of 2010 students were first required to take the Science test

# College and Career Readiness



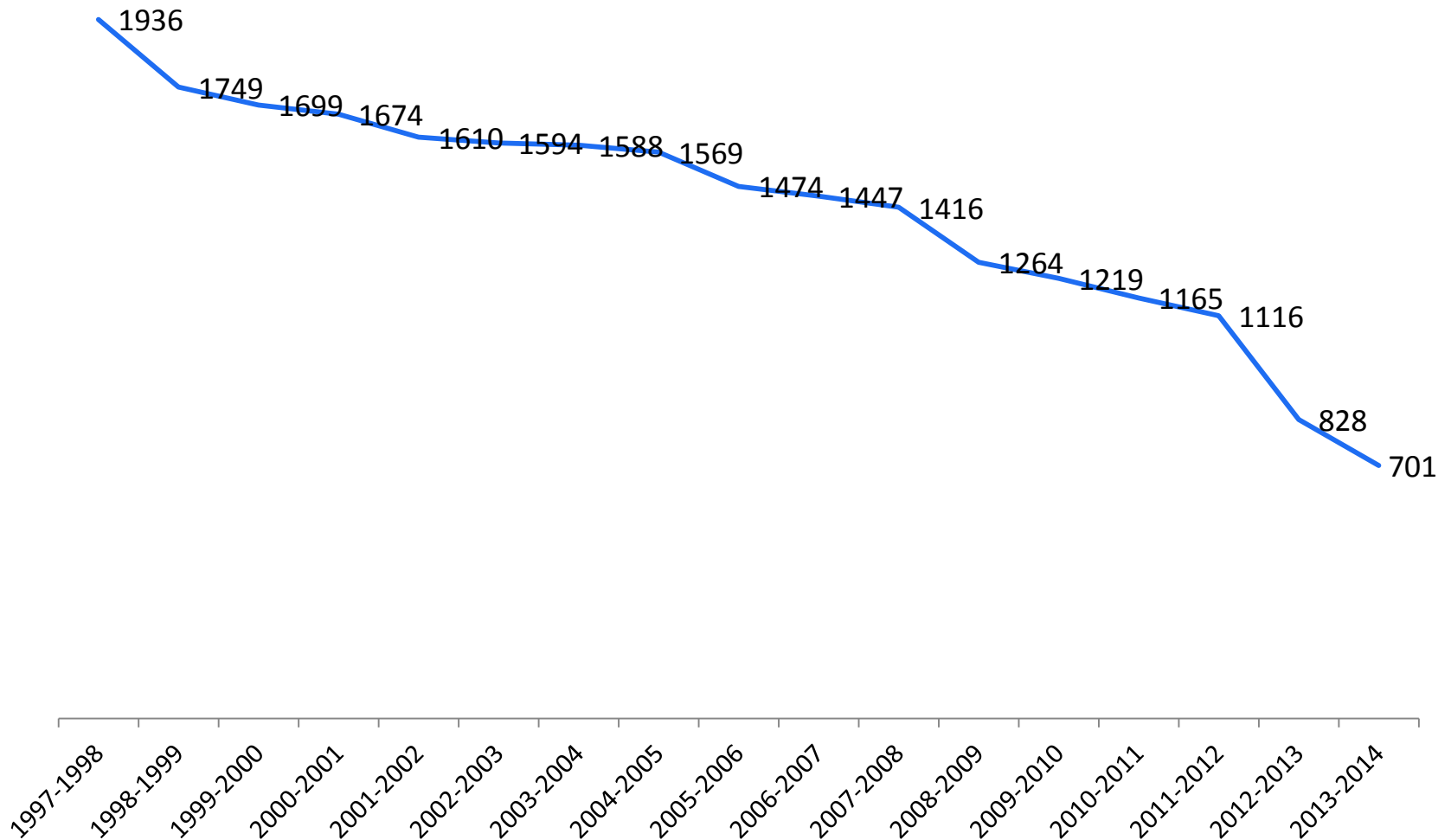
## Annual Dropout Rates\* Systemwide: Grades 9-12





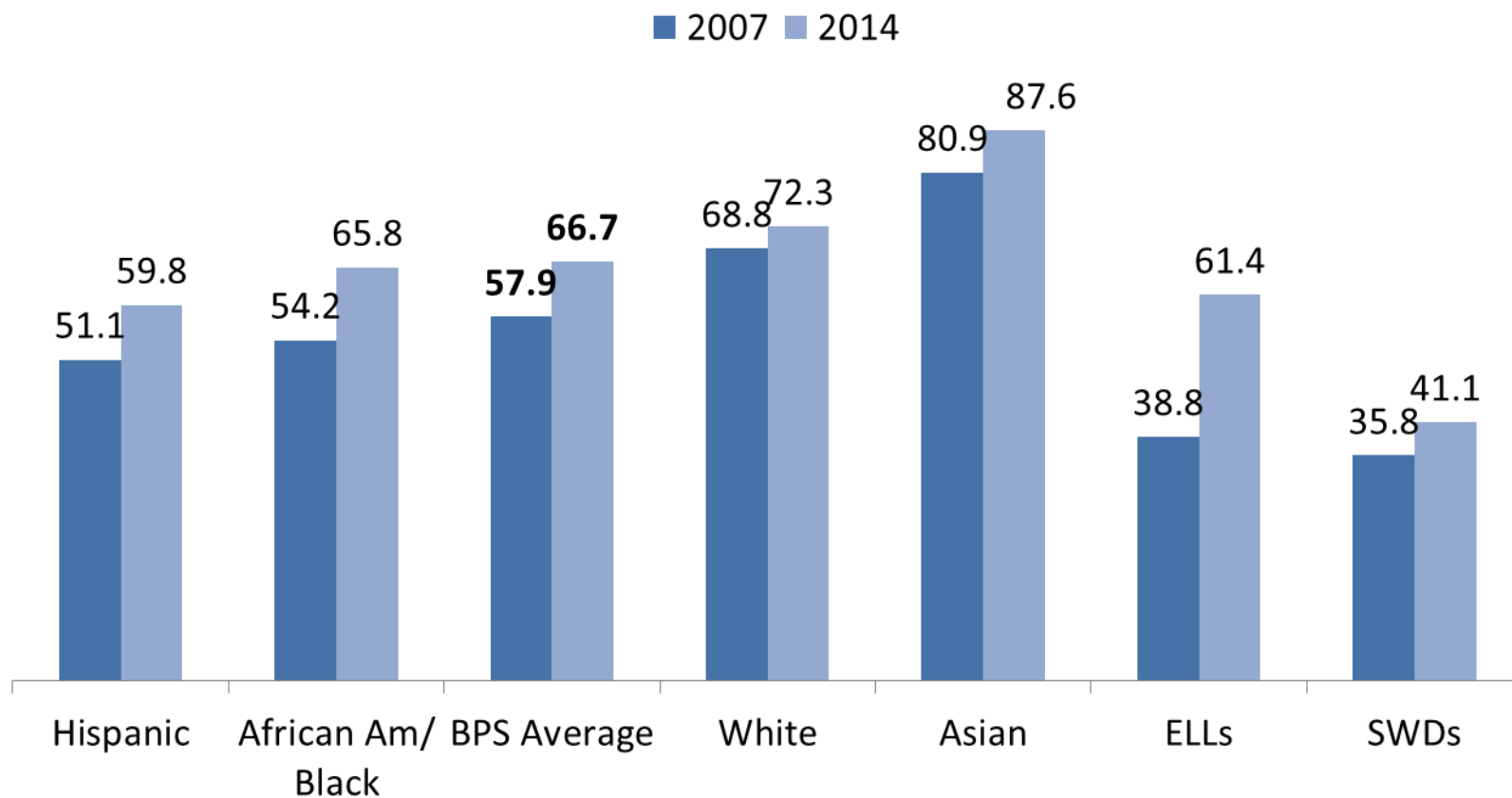


# Annual Number of Dropouts





# 4-year Graduation Rates, 2007 vs 2014

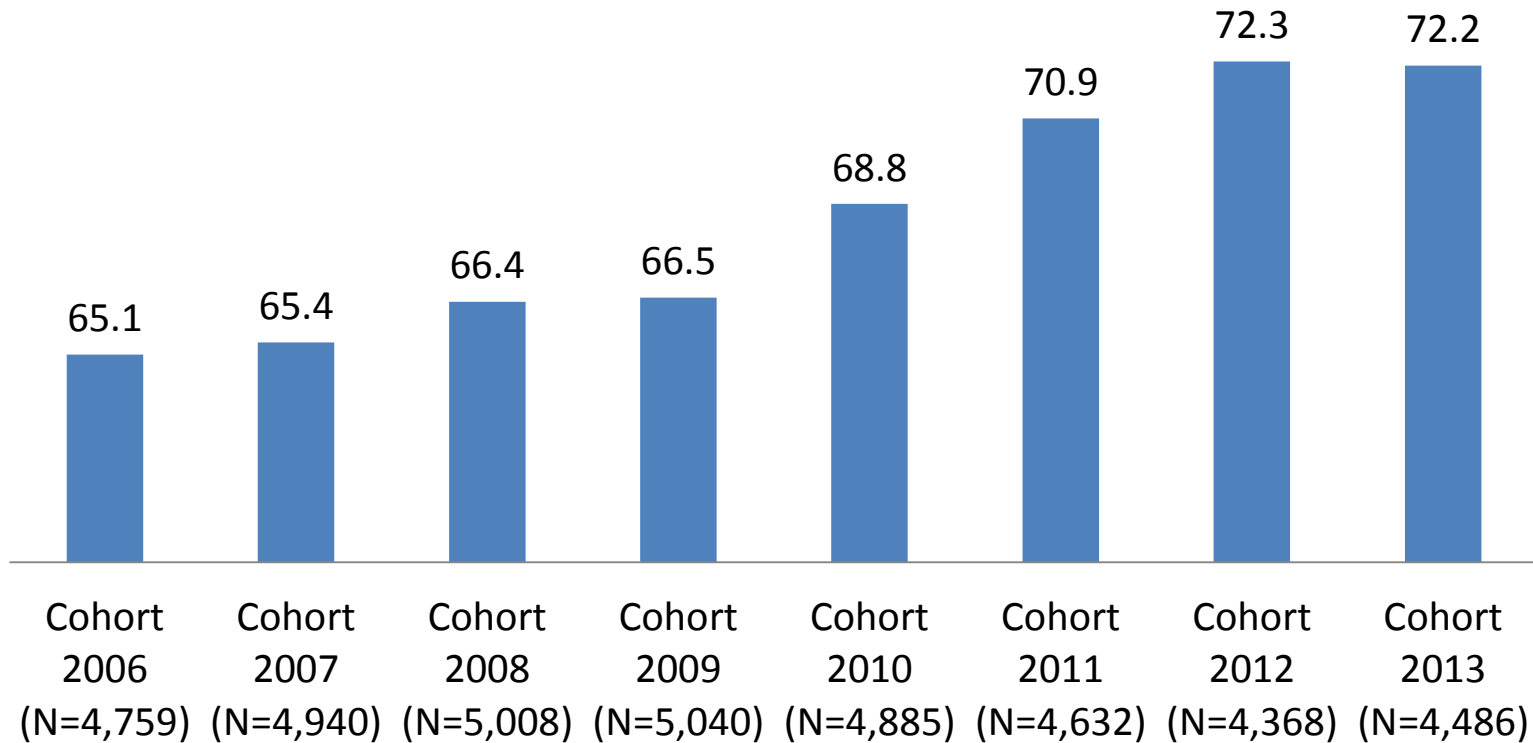


**Graduation rates are at the highest level ever recorded**

**The rate has gone up by almost 12 points for AfAm students; and almost 9 points for Hispanic students**

**For English Language Learners, the rate is up 22.6 points**

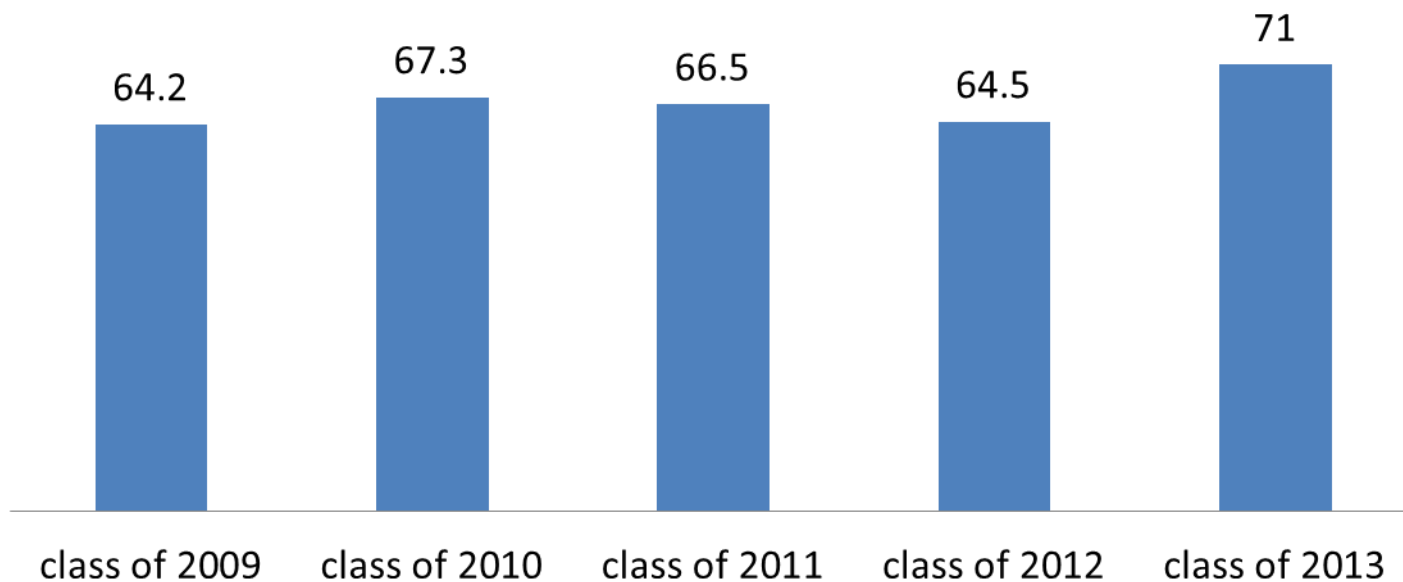
# 5-year Graduation Rates, 2006 - 2013



**5-year graduation rates are above 70%**

With an additional year, the graduation rate for students who entered high school as freshmen in 2009 increased 6.3 points, from 65.9% (4-year rate) to 72.2% (5-year rate). The increase represents an additional 283 students graduating from BPS after an extra year in school

# College Enrollment Rates of BPS Grads 16 months after Graduation



Post-secondary enrollment rates in 2 and 4-year colleges 16 months within graduation are now above 70%

# Closing Access Gaps



# Closing Access Gaps: Investments in Early Childhood are Paying Off

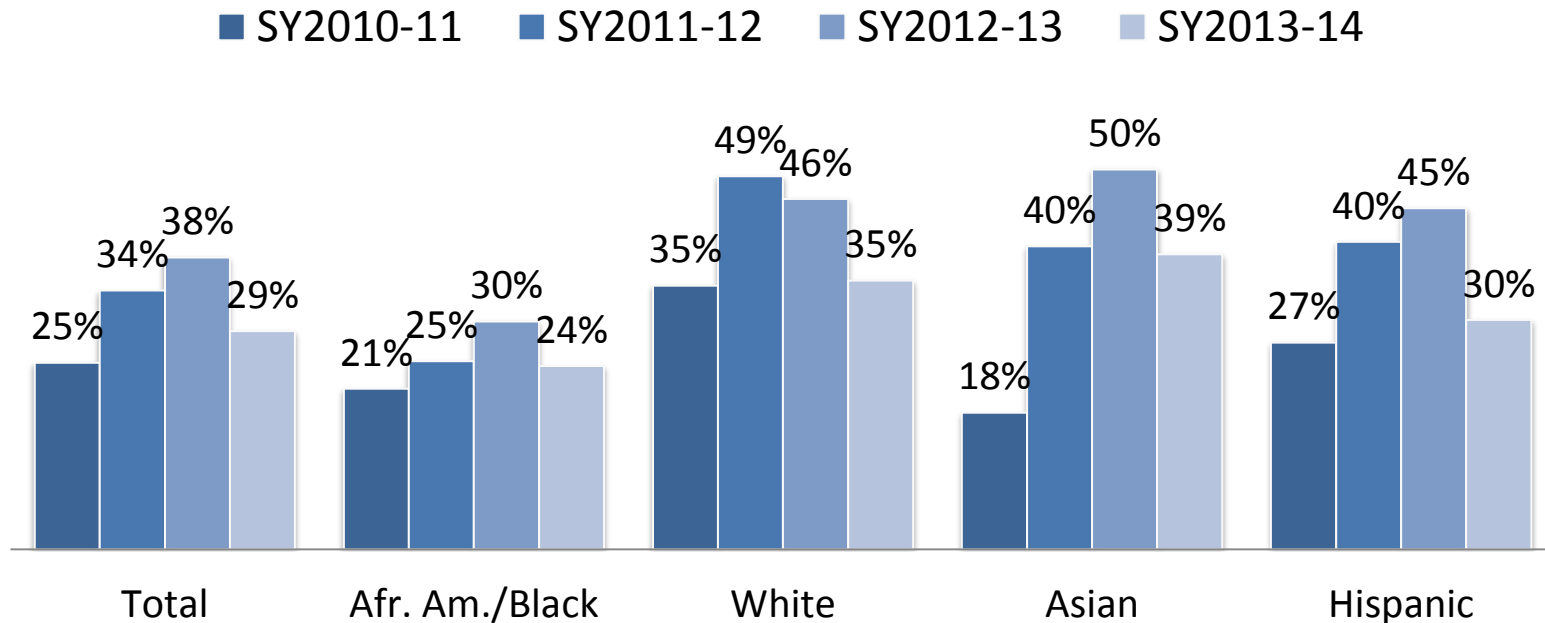
	BPS K1 Last YR			Not in BPS K1 Last YR		
All Students	Benchmark	Below Benchmark	Well Below Benchmark	Benchmark	Below Benchmark	Well Below Benchmark
	76.2% (1,260)	13.5% (223)	10.3% (170)	50.0% (963)	19.6% (377)	30.5% (587)

	All Students	BPS K1 Last Year	Not BPS K1
	Benchmark	Benchmark	Benchmark
Af Am	66.4%	79.7%	56.6%
White	79.3%	86.4%	69.9%
Asian	66.4%	72.5%	57.3%
Hispanic	49.7%	68.6%	34.8%

Students who attend K1 have better reading skills at the beginning of K2



# Closing Access Gaps: Algebra I in 8<sup>th</sup> Grade



In 2007-2008, only 1% of non-exam school students were taking Algebra I in 8<sup>th</sup> grade. Today, 29% are enrolled. The most recent year decrease corresponds with a more rigorous Math curriculum for all 8<sup>th</sup> graders, as part of our shift to the new standards.



# Closing Access Gaps: More Students are Taking AP Courses

	Pct Enrolled in AP Grades 11 &12			Total AP courses Offered		
	District	Non-exam	Exam	District	Non-exam	Exam
SY13-14	<b>31%</b>	19%	77%	<b>152</b>	<b>98</b>	54
SY 12-13	<b>31%</b>	20%	77%	<b>150</b>	<b>98</b>	52
SY 11-12	<b>29%</b>	17%	76%	<b>147</b>	<b>94</b>	53
SY 10-11	<b>27%</b>	16%	70%	<b>152</b>	<b>104</b>	48
SY 09-10	<b>27%</b>	15%	71%	<b>136</b>	<b>92</b>	44
SY 08-09	<b>24%</b>	15%	63%	<b>138</b>	<b>87</b>	51
SY 07-08	<b>22%</b>	12%	61%	<b>119</b>	<b>71</b>	48
SY 06-07	<b>20%</b>	10%	62%	<b>115</b>	<b>67</b>	48
SY 05-06	<b>20%</b>	10%	61%	<b>108</b>	<b>61</b>	47
SY 04-05	<b>19%</b>	10%	56%	<b>99</b>	<b>55</b>	44

In 10 years, we have doubled the percentage of students taking AP courses in non-exam schools. We have also increased the number of AP courses offered across the district, especially in non-exam schools

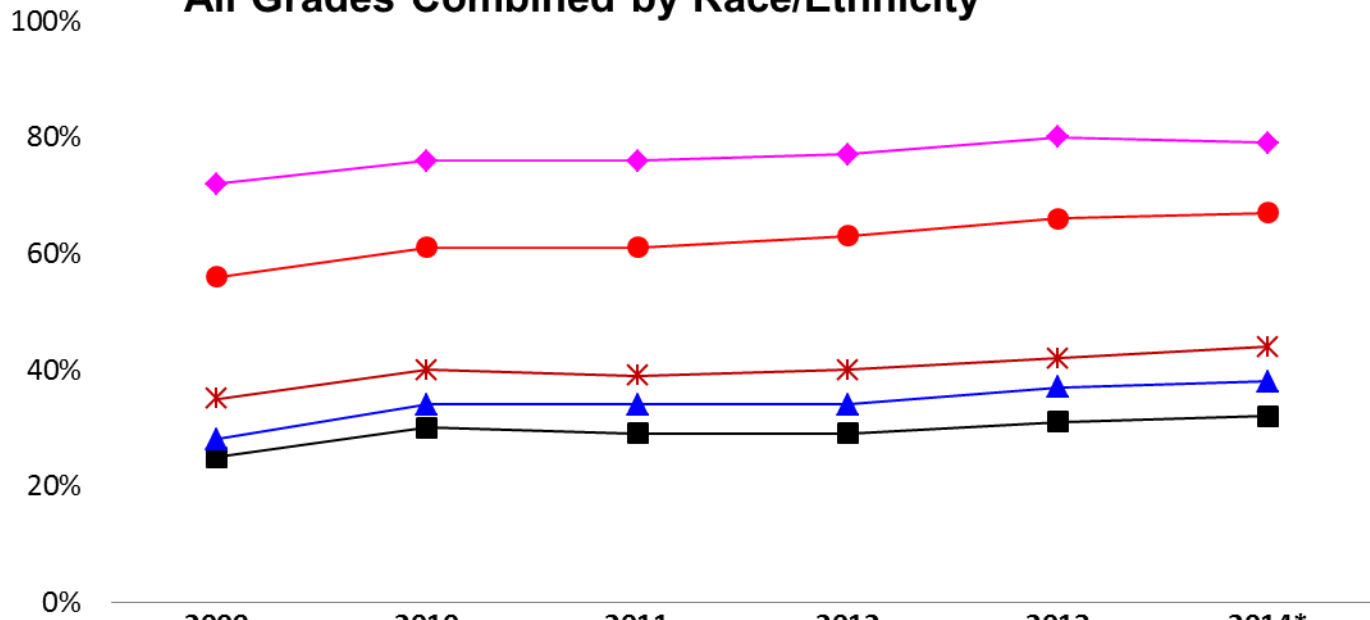


# State of Achievement Gaps



# Achievement Gaps:

**MCAS MATH Proficiency Rates: 2009 - 2014\***  
**All Grades Combined by Race/Ethnicity**



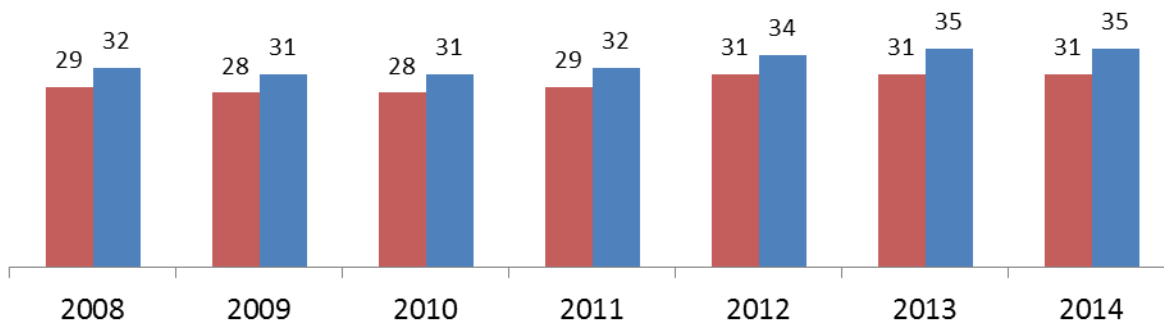
- ✱ DISTRICT
- AA/Black
- ◆ Asian
- ▲ Latino/Hispanic
- White

	2009	2010	2011	2012	2013	2014*
✱ DISTRICT	35%	40%	39%	40%	42%	44%
■ AA/Black	25%	30%	29%	29%	31%	32%
◆ Asian	72%	76%	76%	77%	80%	79%
▲ Latino/Hispanic	28%	34%	34%	34%	37%	38%
● White	56%	61%	61%	63%	66%	67%

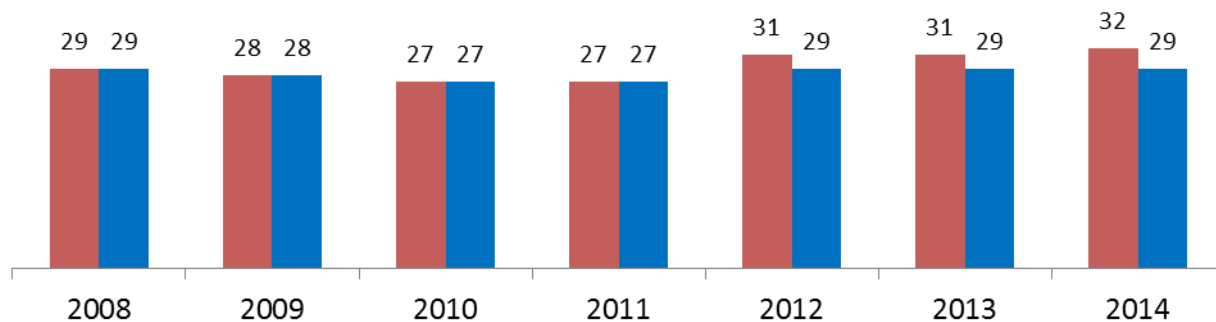
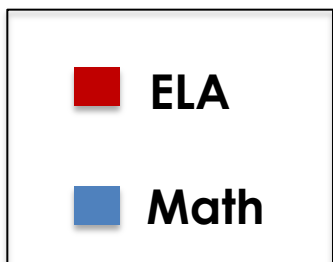


# Proficiency gaps persist between Black and Hispanic students and White students

**Gap in % Proficient/Advanced between Black and White Students**



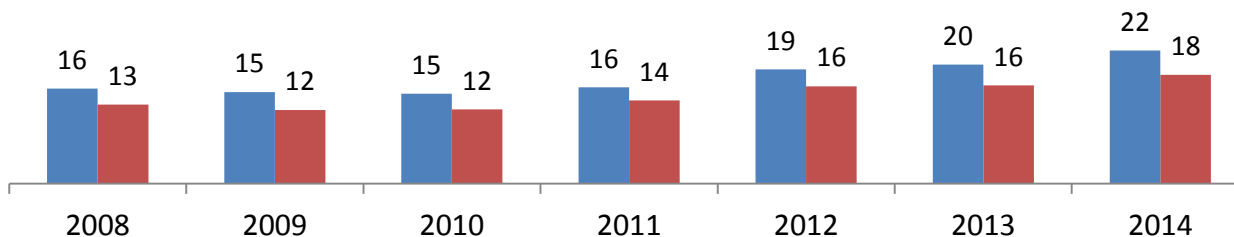
**Gap in % Proficient/Advanced in ELA between Hispanic and White Students**



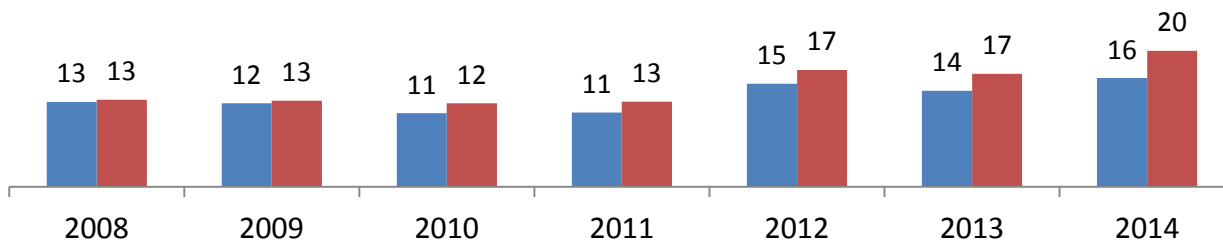
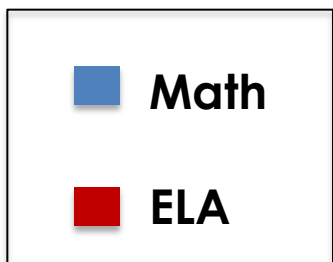


# These gaps are smaller for students from the same socio-economic background, but they still remain

**Gap in % Proficient/Advanced between AfAm and White Students- Low Income Students Only**



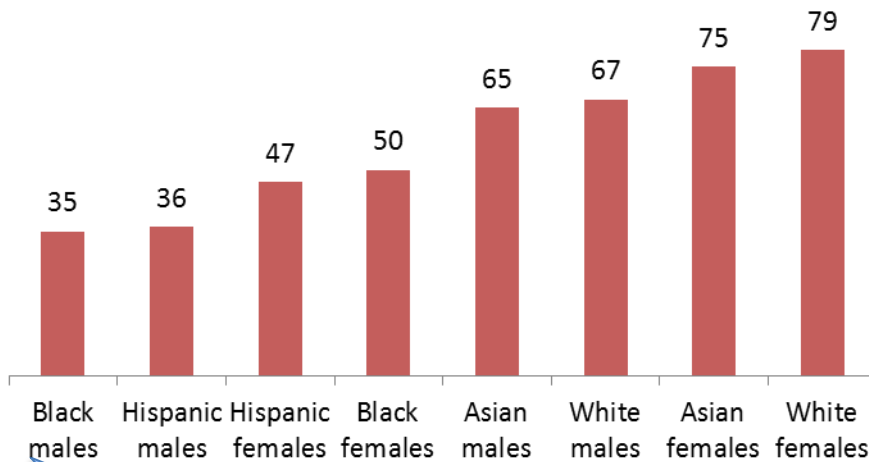
**Gap in % Proficient/Advanced between Hispanic and White Students- Low Income Students Only**



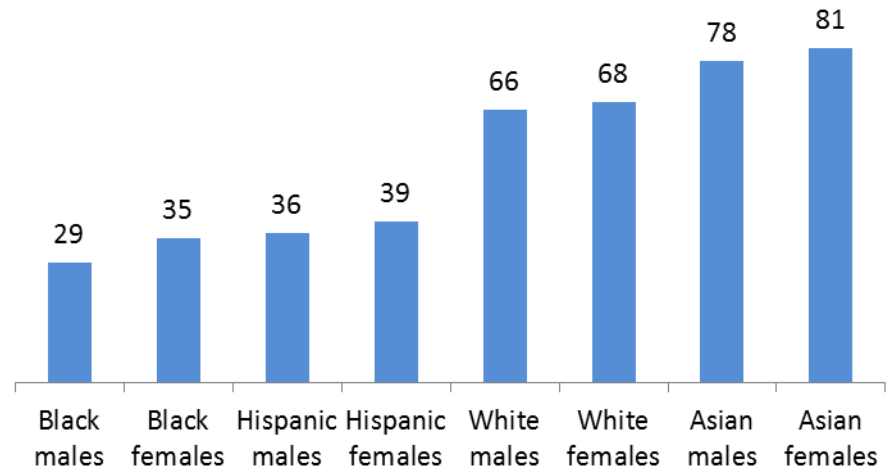


# Achievement gaps for Black and Hispanic male students

ELA proficiency rates by race and gender



Math proficiency rates by race and gender



Proficiency rates for Black males are the lowest of any race/gender group

Proficiency rates for Black males are less than half the rates for White and Asian females



# Gaps are also evident in the growth rates of students in different racial/ethnic groups

**MCAS ELA Median Student Growth Percentile (SGP): 2009 - 2014**  
**All Grades Combined by Race/Ethnicity**

