

MCAS Presentation to the School Committee
October 7, 2014
Cambridge, MA

Agenda

- ▶ **MCAS in context**
 - ▶ Purpose of MCAS
 - ▶ CPS in relation to state: All grades and subgroups combined
- ▶ **Digging Deeper**
 - ▶ Variation by grade
 - ▶ Variation by student group
 - ▶ Performance Levels
 - ▶ Levels 1 and 2 Schools
 - ▶ Level 3 Schools – deeper analysis
- ▶ **Summary and Questions Raised**



Purpose of MCAS

- ▶ To determine the progress the district, schools, and individual students have made in acquiring the knowledge and skills as outlined in the Massachusetts Curriculum Frameworks.
- ▶ This testing is a snapshot of a school, grade, subgroup, and individual student's progress to date as measured by one assessment.



MCAS in Context

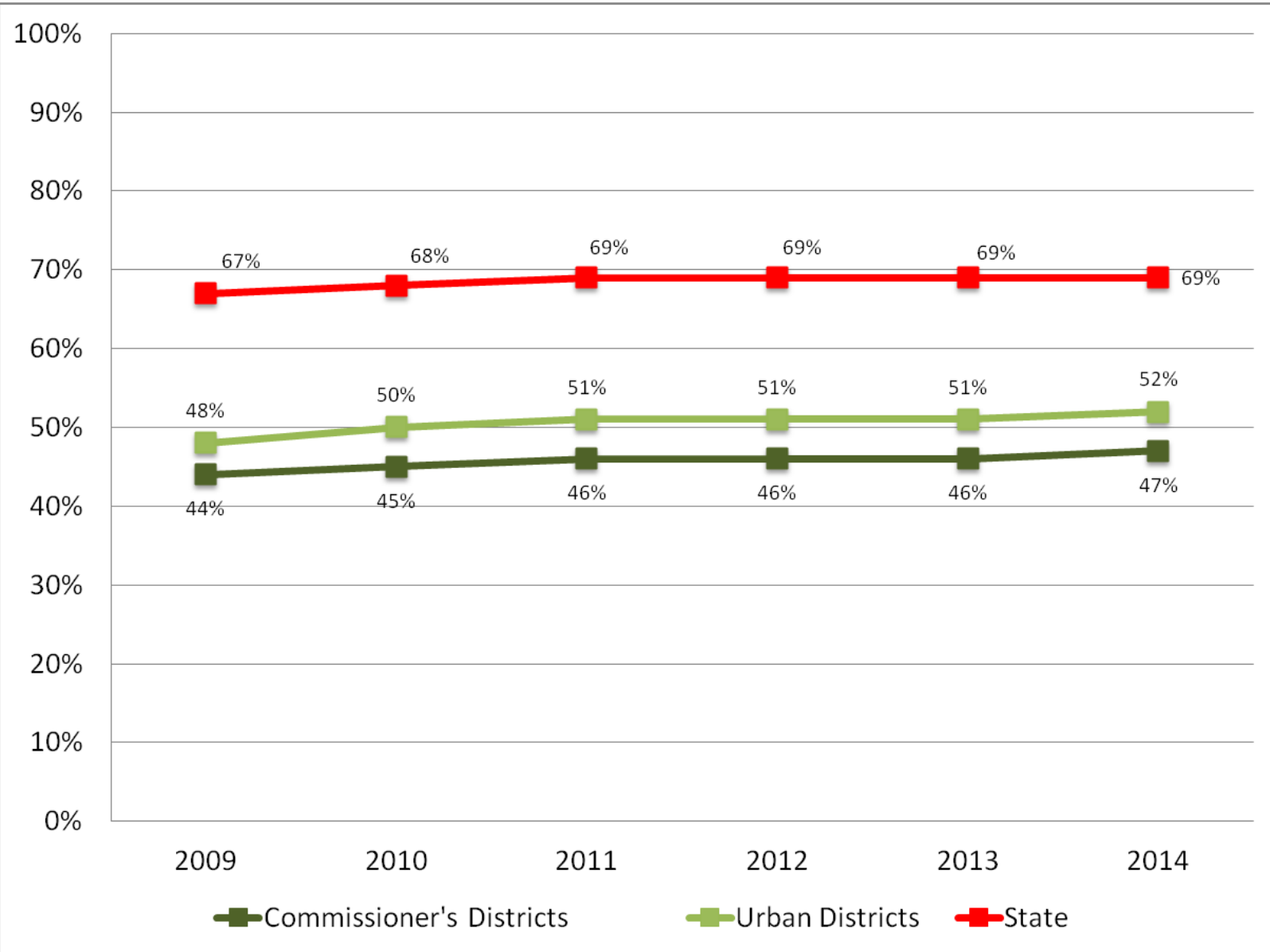
CPS and the State of Massachusetts

Putting MCAS in Context

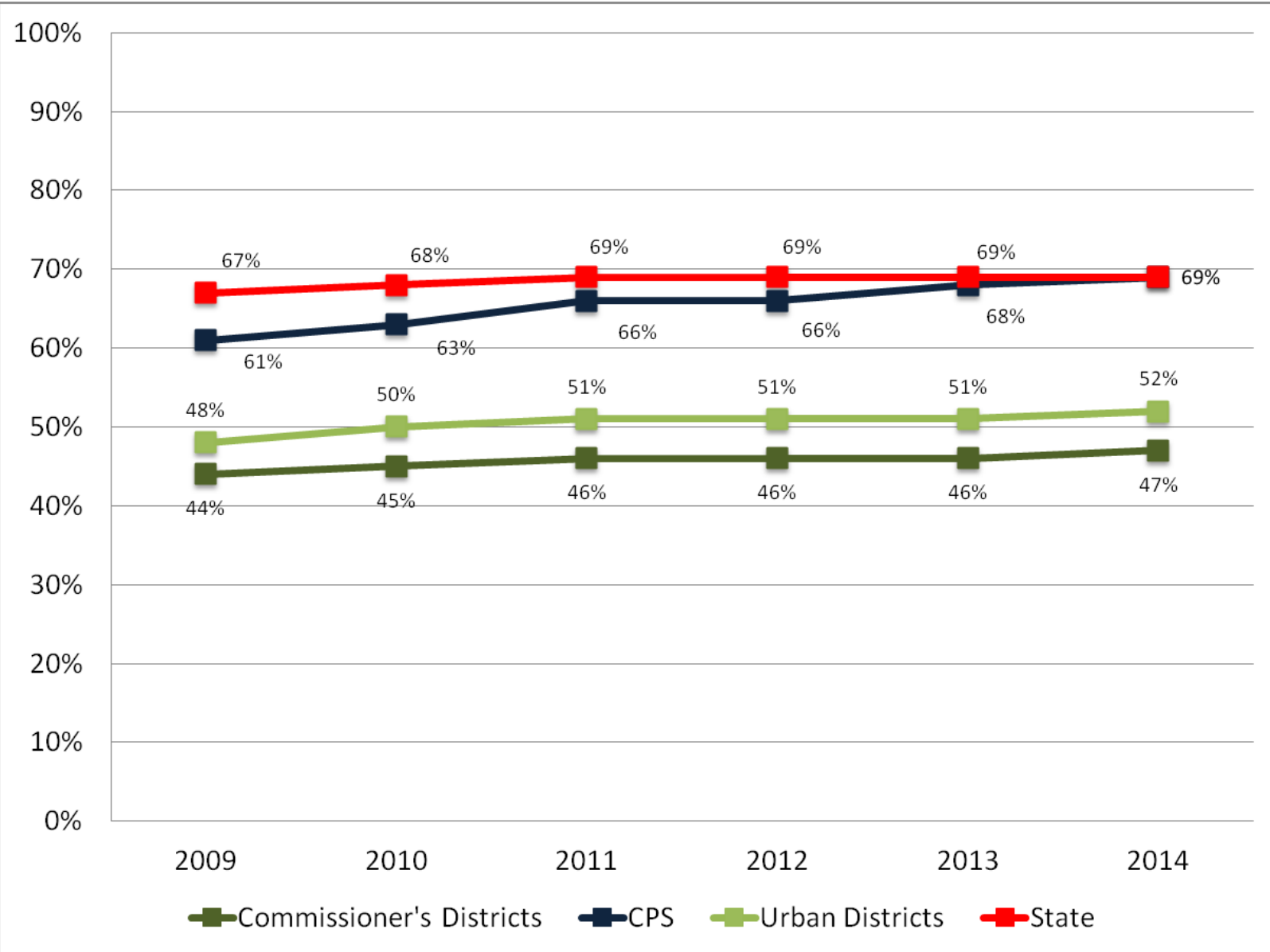
- ▶ What is happening across the state?
- ▶ How does CPS compare?
- ▶ Key Takeaways:
 - ▶ CPS has made greater gains overall relative to the state.
 - ▶ We have closed the performance gap between CPS and the state in ELA and Math.
 - ▶ CPS outperforms urban and Commissioner's districts.
 - ▶ We have made roughly twice as much progress as urban and Commissioner's districts in both ELA and math.
 - ▶ Although we have made twice the progress of the state in science, we are still 3% below the state in science.



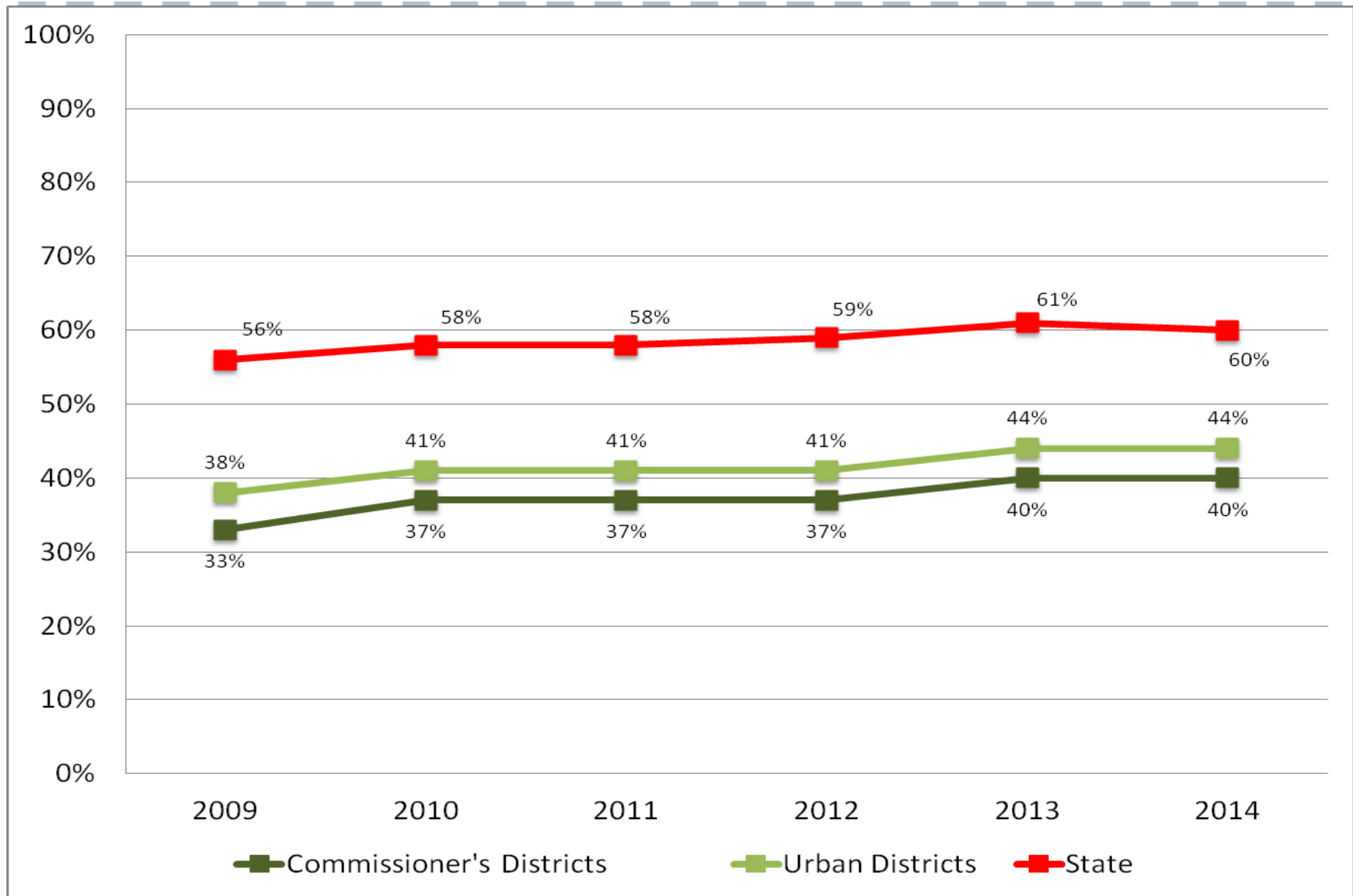
ELA MCAS Results 2009-14



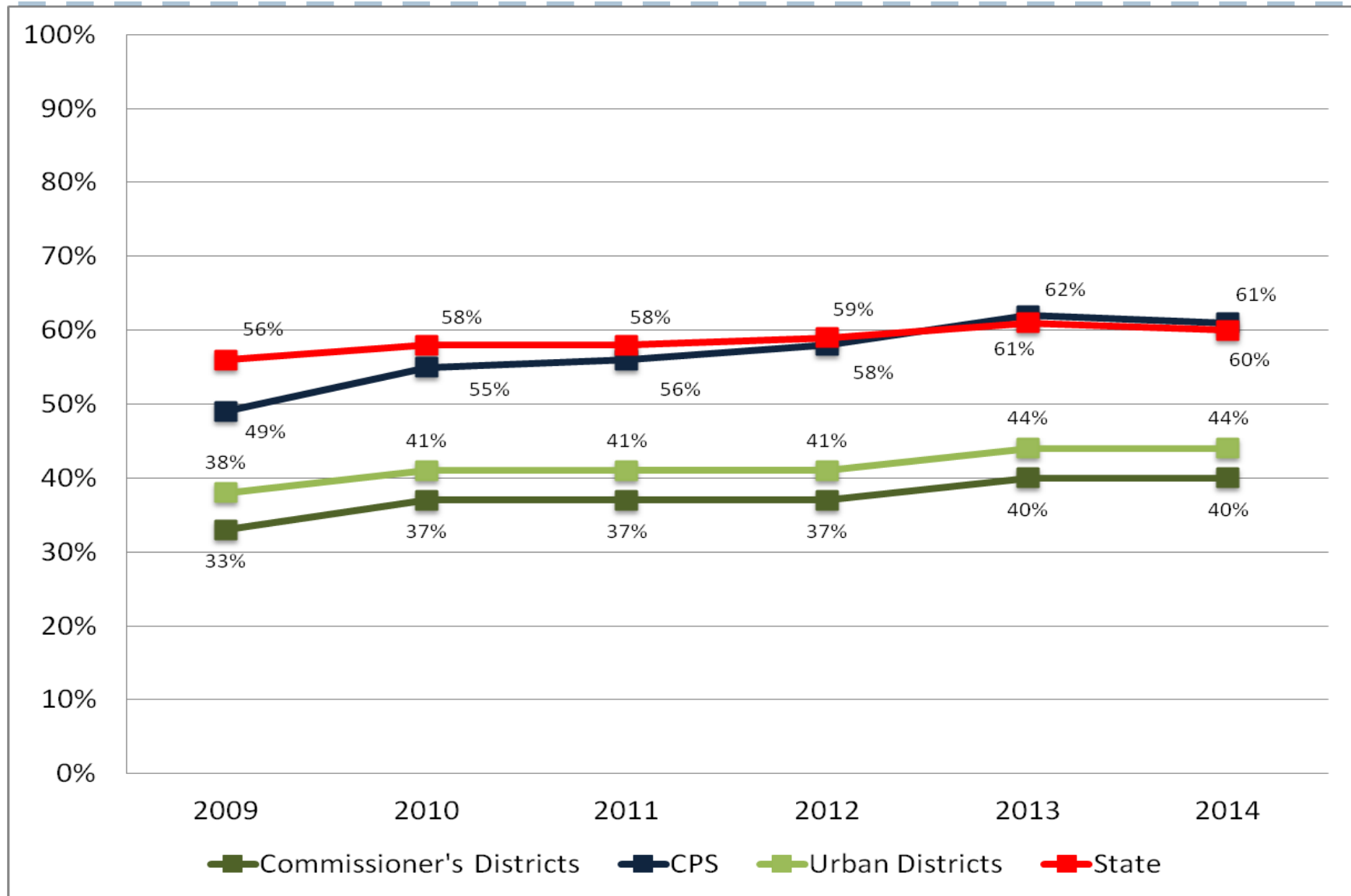
ELA MCAS Results 2009-14



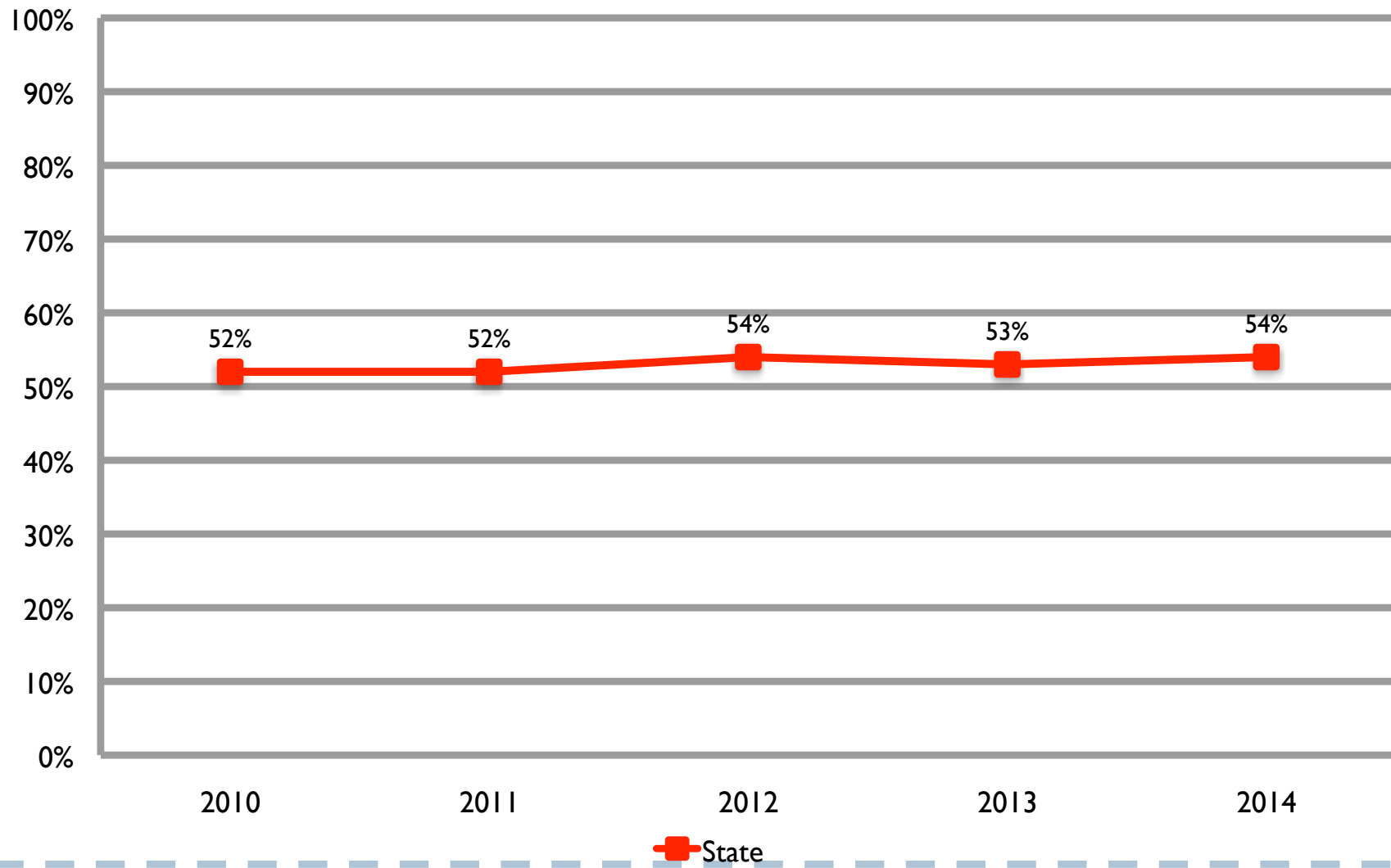
Math MCAS Results 2009-14



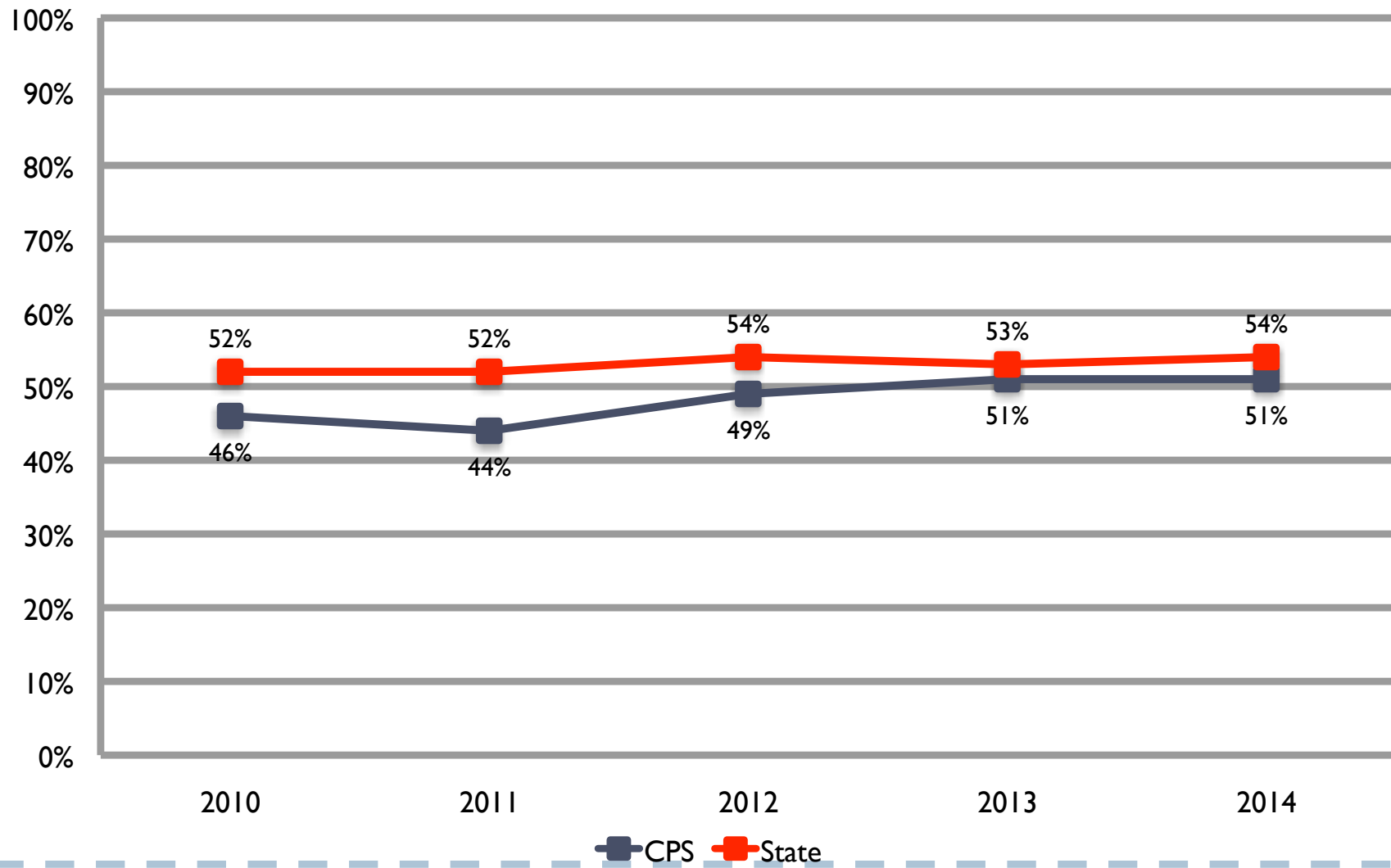
Math MCAS Results 2009-14



Science MCAS Results 2010-14



Science MCAS Results 2010-14



Summary

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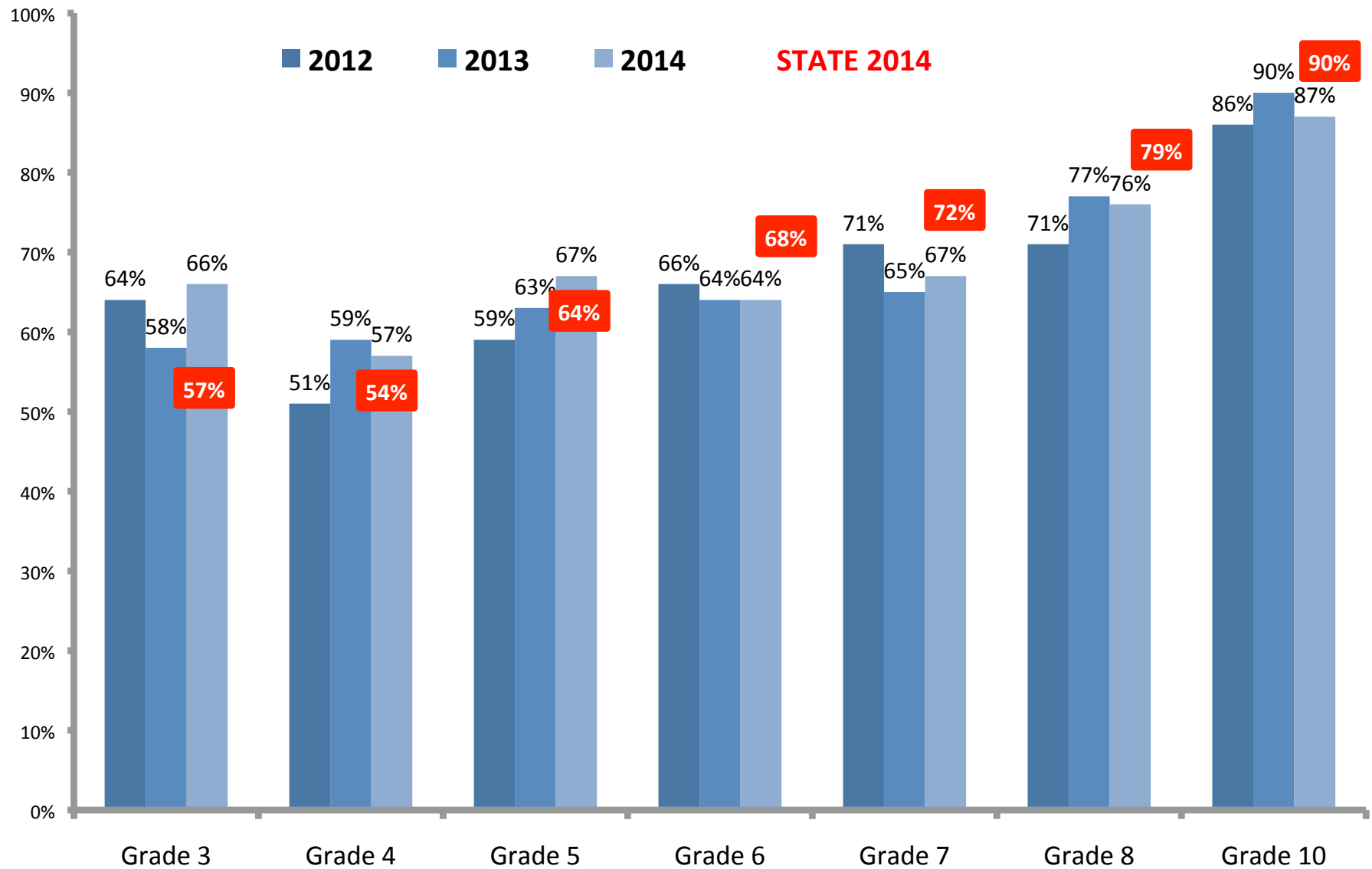
MCAS performance

Grade and Grade band

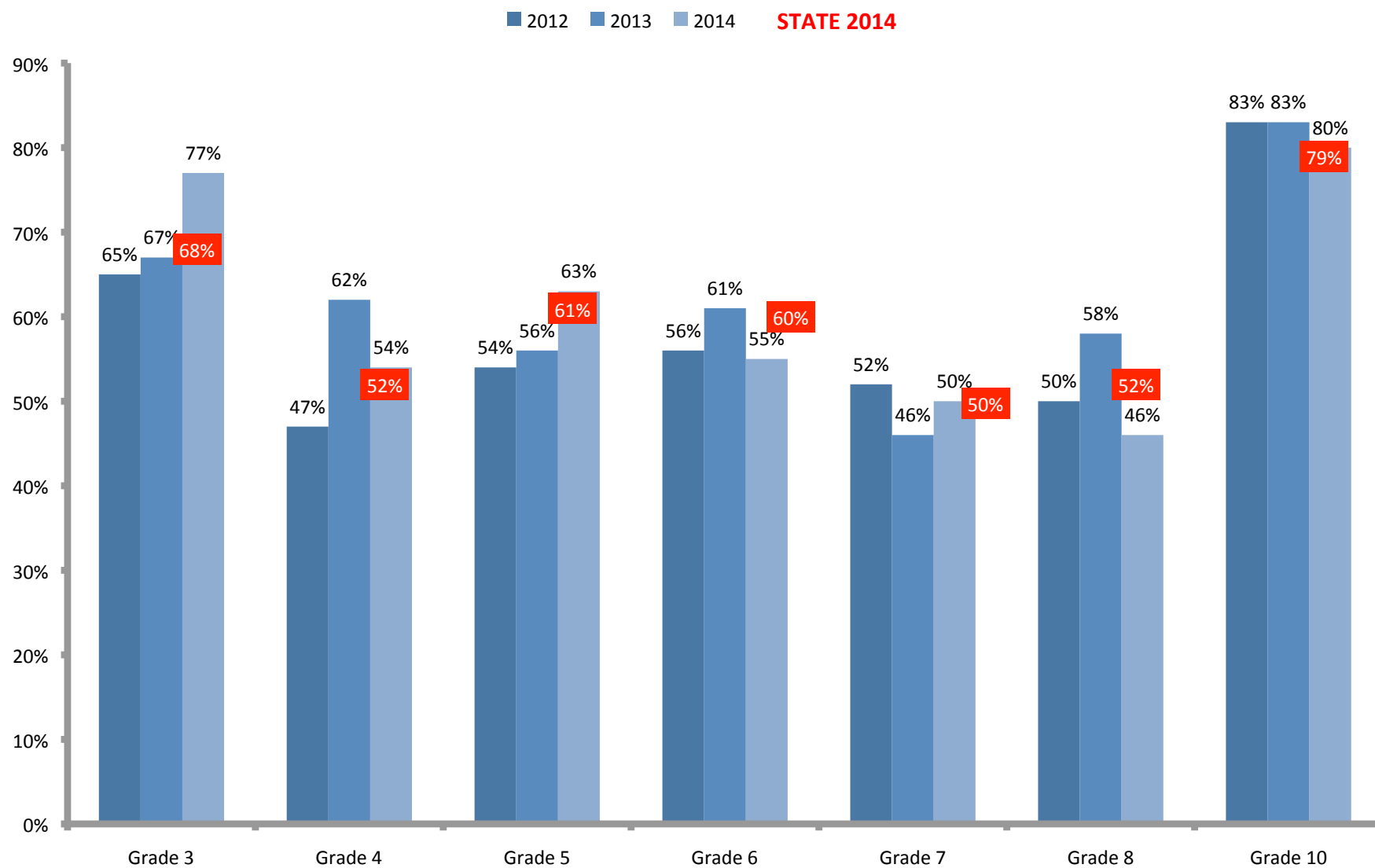
Digging Deeper

- ▶ How does MCAS performance vary by grade and grade band?
- ▶ Key Takeaways:
 - ▶ Elementary Schools
 - ▶ CPS outperforms the state at grades 3, 4, 5 ELA and math and has made greater growth than the state in every subject since 2009.
 - ▶ Upper Schools
 - ▶ The state outperforms CPS in grades 6 – 8 ELA and math
 - ▶ There has been a decrease in performance in math and science from 2013 to 2014, while ELA scores have remained flat.
 - ▶ CRLS
 - ▶ Since 2009, we have seen an overall upward trend in proficient/advanced at CRLS in every subject.
 - ▶ Overall
 - ▶ The state outperforms CPS at every grade level tested in science.

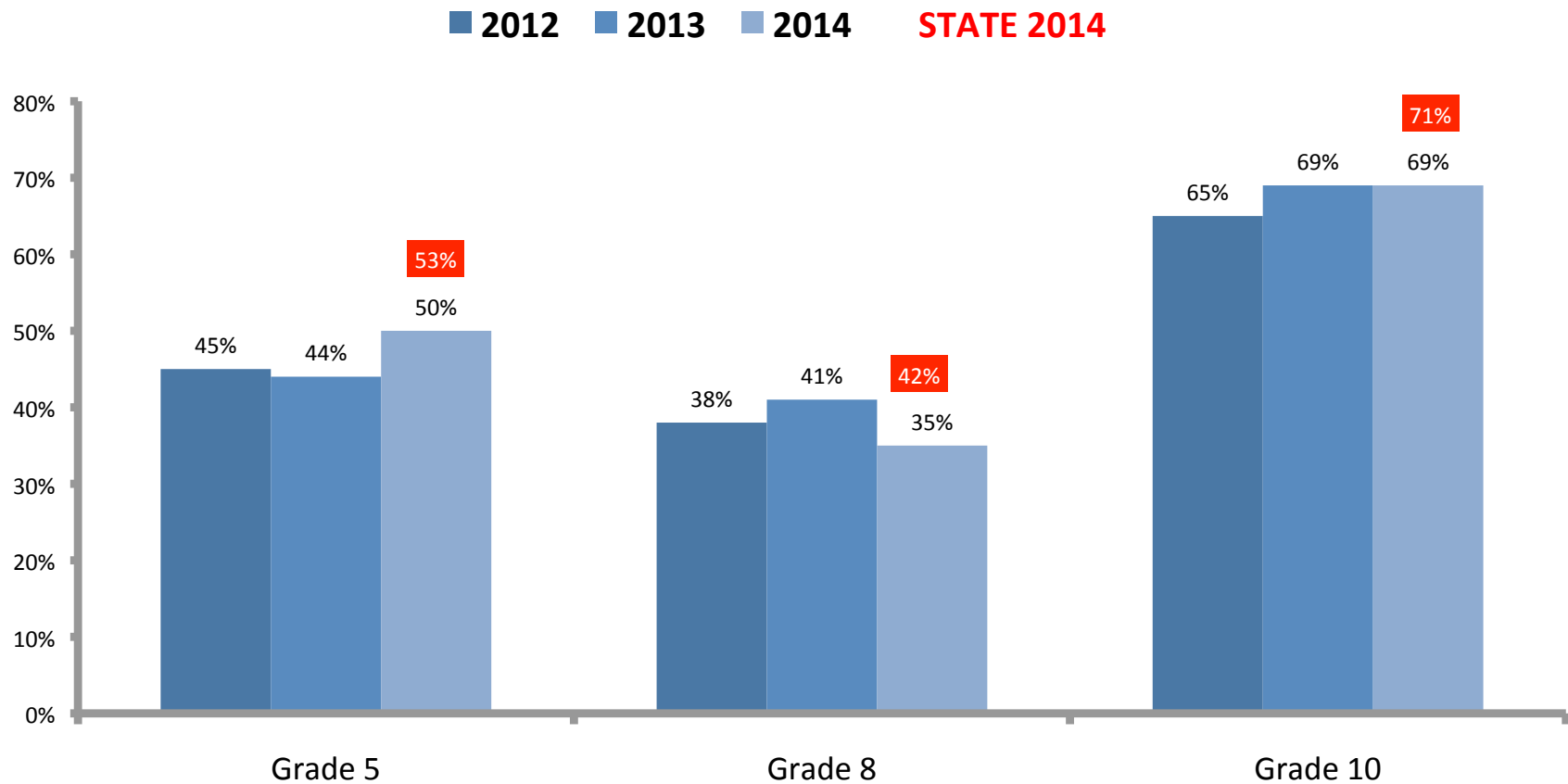
ELA - % Proficient/Advanced by Grade



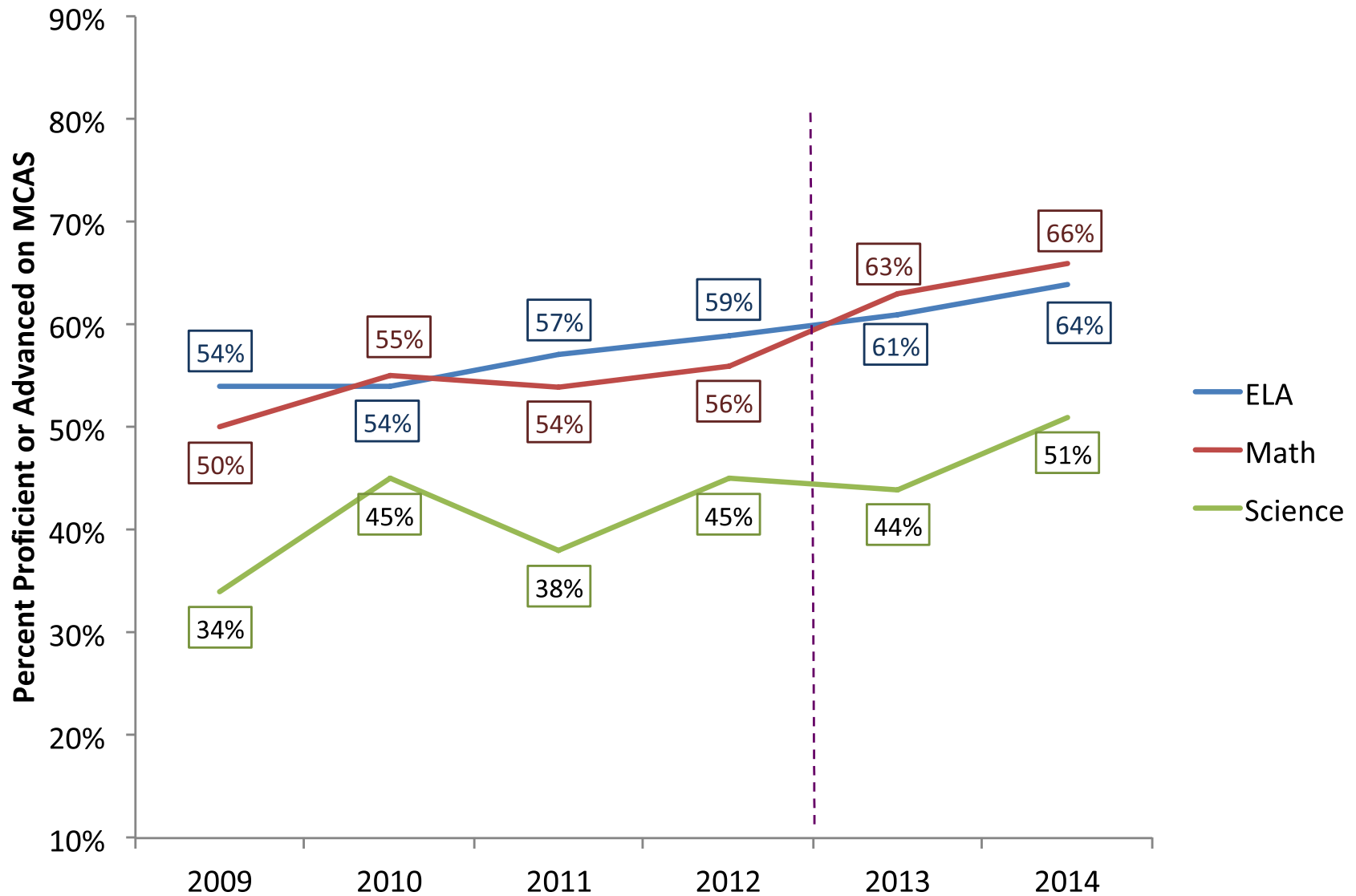
Math - % Proficient/Advanced by Grade



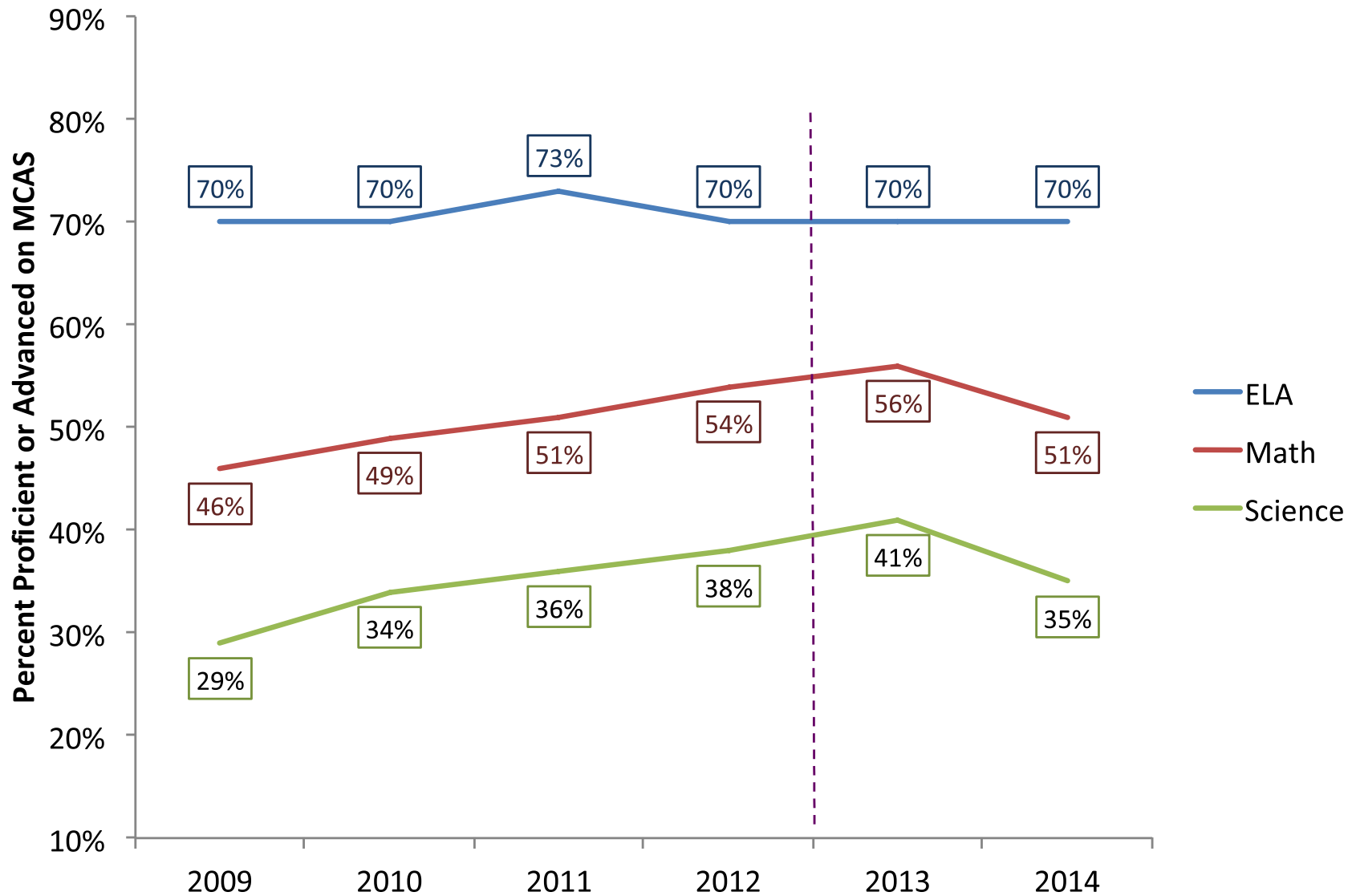
Science - % Proficient/Advanced by Grade



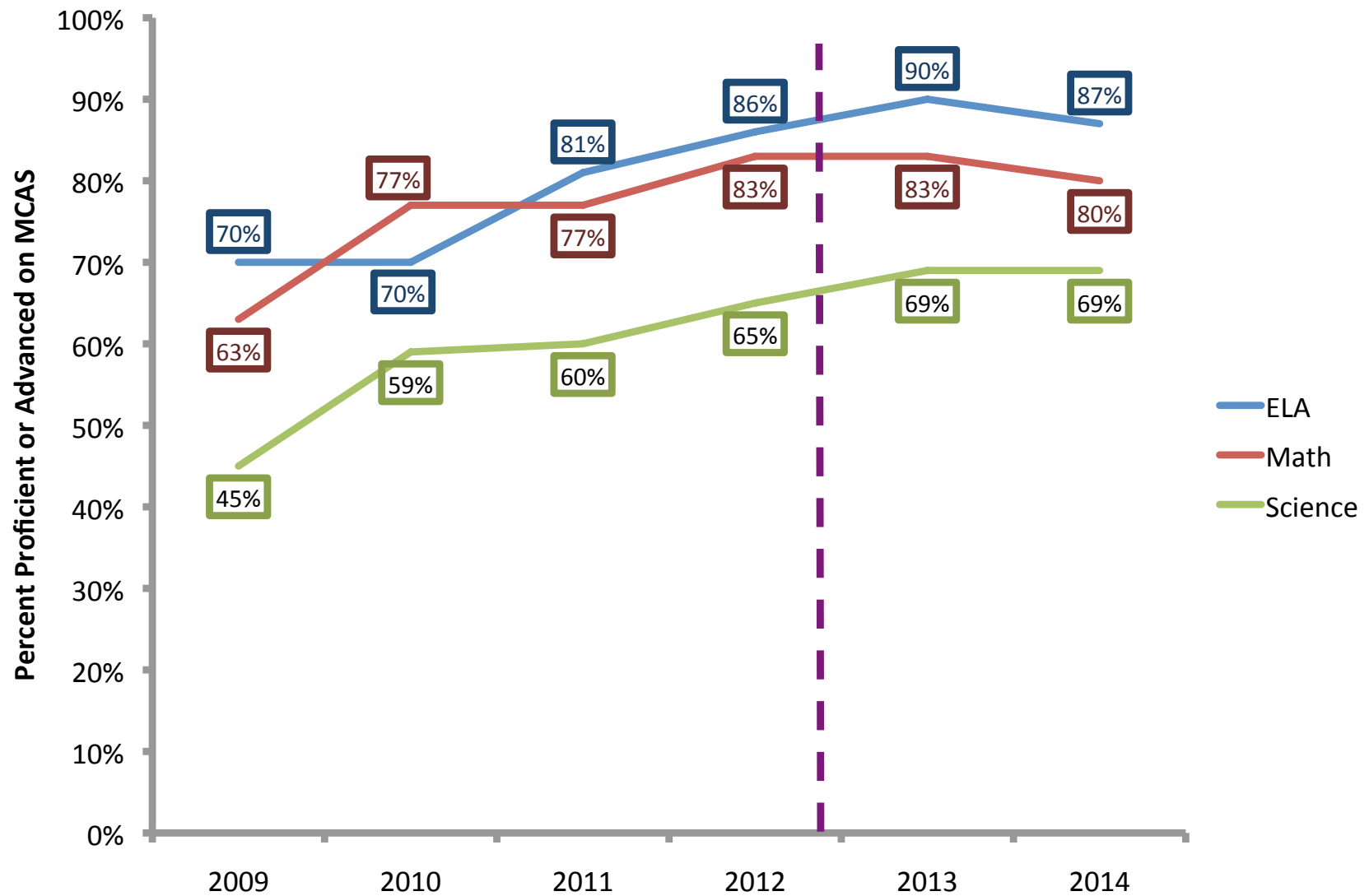
Elementary Schools - % Prof/Adv 2009-2014



Upper Schools - % Prof/Adv 2009-2014



Grade 10 - % Prof/Adv 2009-2014



Summary

▶ Elementary Schools

- ▶ CPS outperforms the state at grades 3, 4, 5 ELA and math and has made greater growth than the state in every subject since 2009.

▶ Upper Schools

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▶ CRLS

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▶ Overall

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MCAS Performance

Student Groups and Gap Narrowing Progress

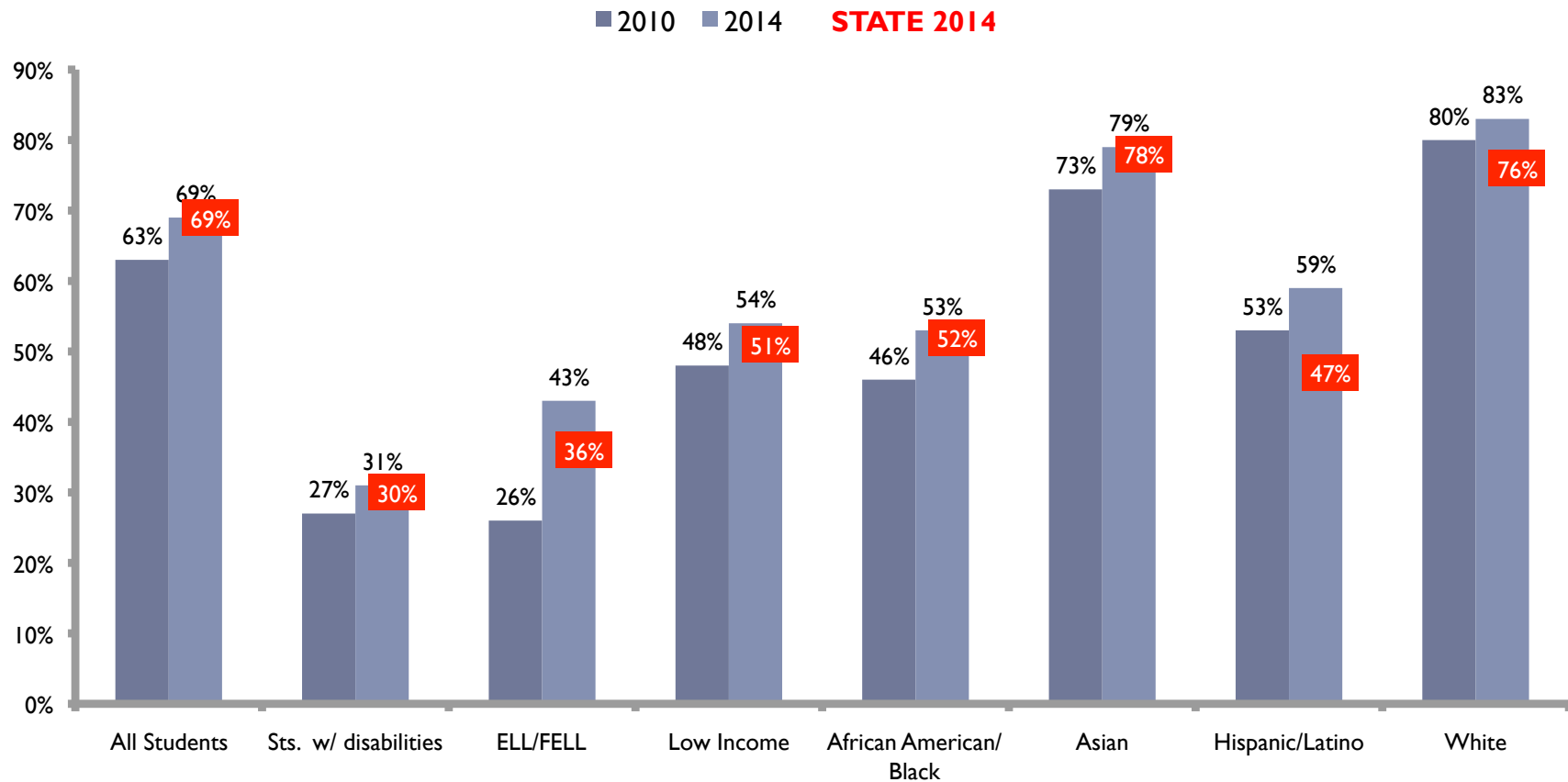
Digging Deeper

- ▶ How are different student groups progressing on MCAS in CPS?
- ▶ Are achievement gaps narrowing?
- ▶ Key Takeaways:
 - ▶ For grades 3 – 10 ELA, CPS performance roughly equals the state for every student group. CPS outperforms the state for ELL, Hispanic/Latino, and White students.
 - ▶ In grades 3 – 5, achievement gaps are narrowing for many student groups, especially African American / Black students in every subject with increases of 10%, 12%, and 11% in ELA, math, and science, respectively.
 - ▶ Achievement gaps are not narrowing at grades 6 - 8.
 - ▶ In grade 10, achievement gaps are narrowing for many student groups, most notably in ELA. In particular African American/ Black students, Hispanic/ Latino, low income students, ELL students, and students with disabilities have increased 21 – 28% in ELA proficient/advanced over the last 5 years.

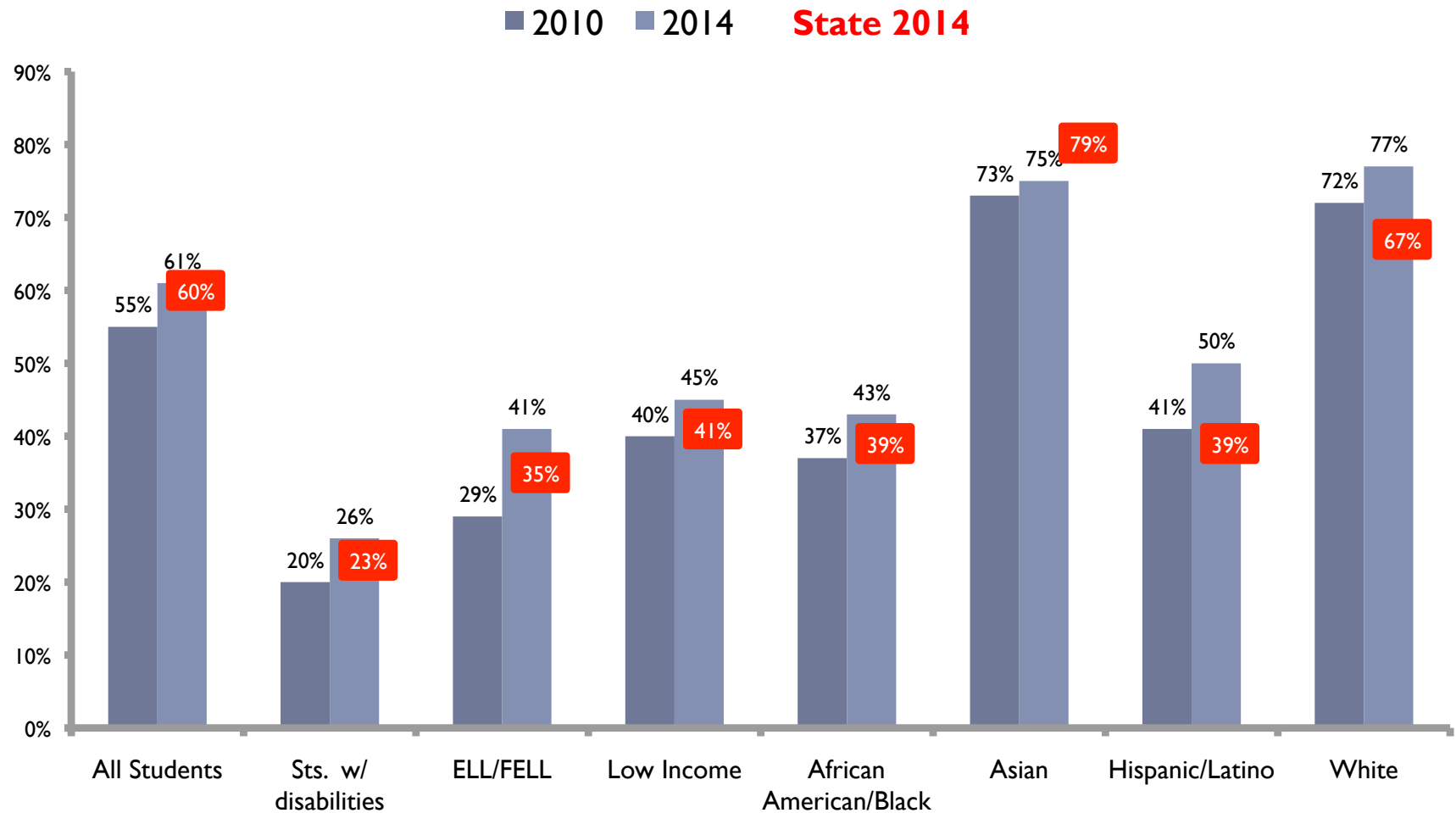


Grades 3-10 ELA Subgroups % Prof/Adv Change Between 2010-2014 and State 2014

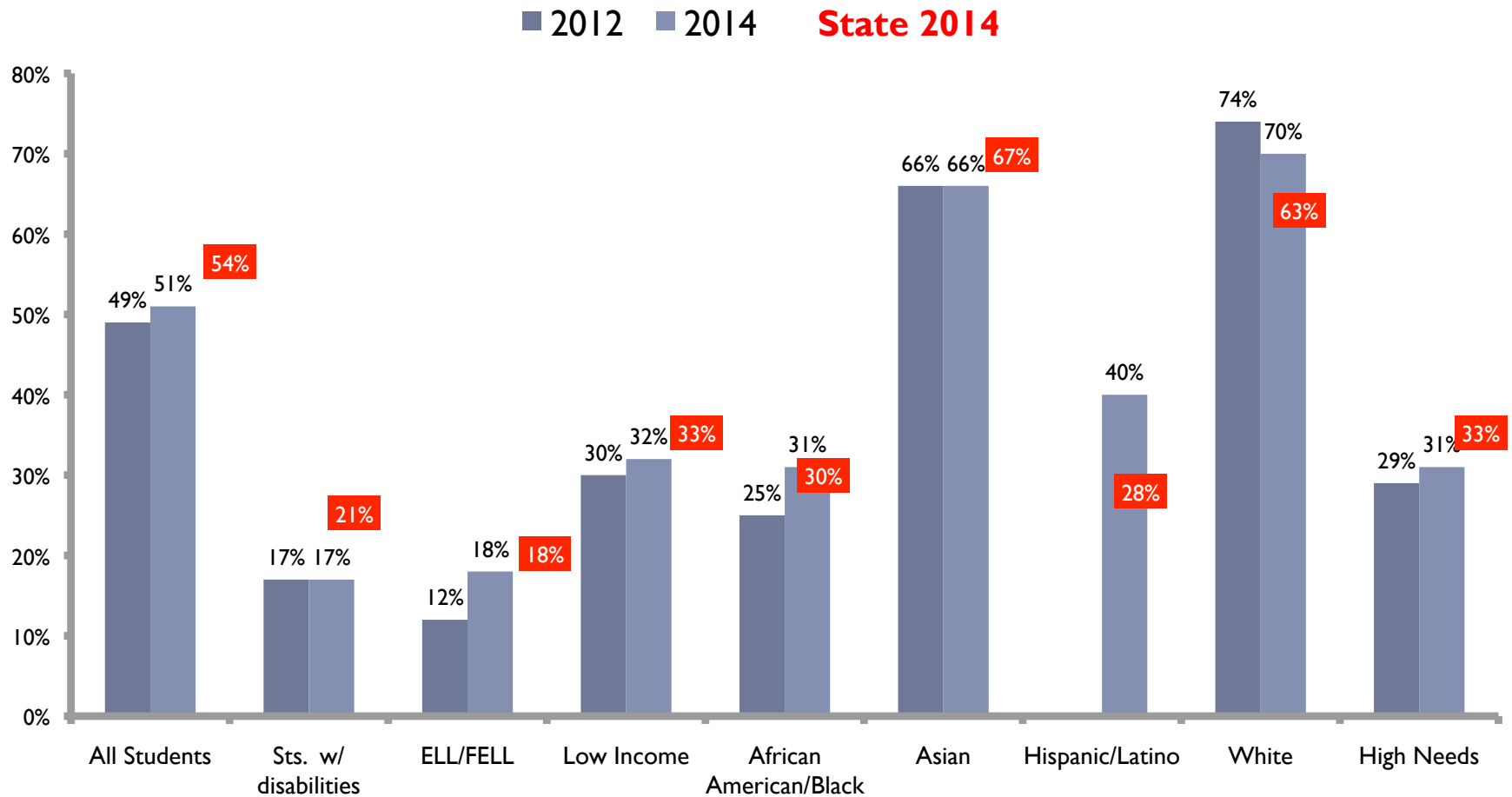
ELA - % Proficient & Advanced by Student Subgroup 2010-2014 in comparison with State 2014



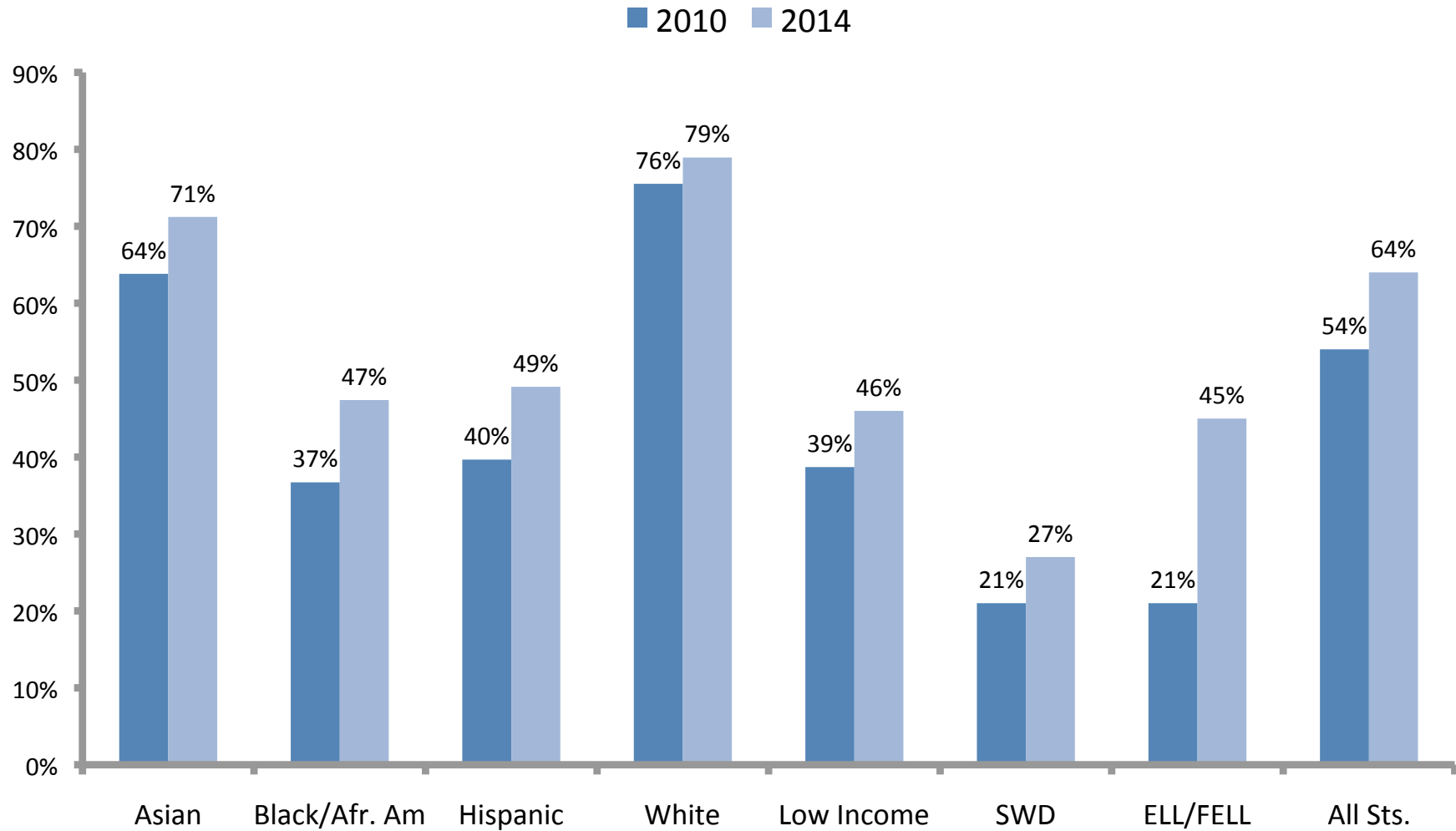
Grades 3-10 Math Subgroups % Prof/Adv Change Between 2010-2014 and State 2014



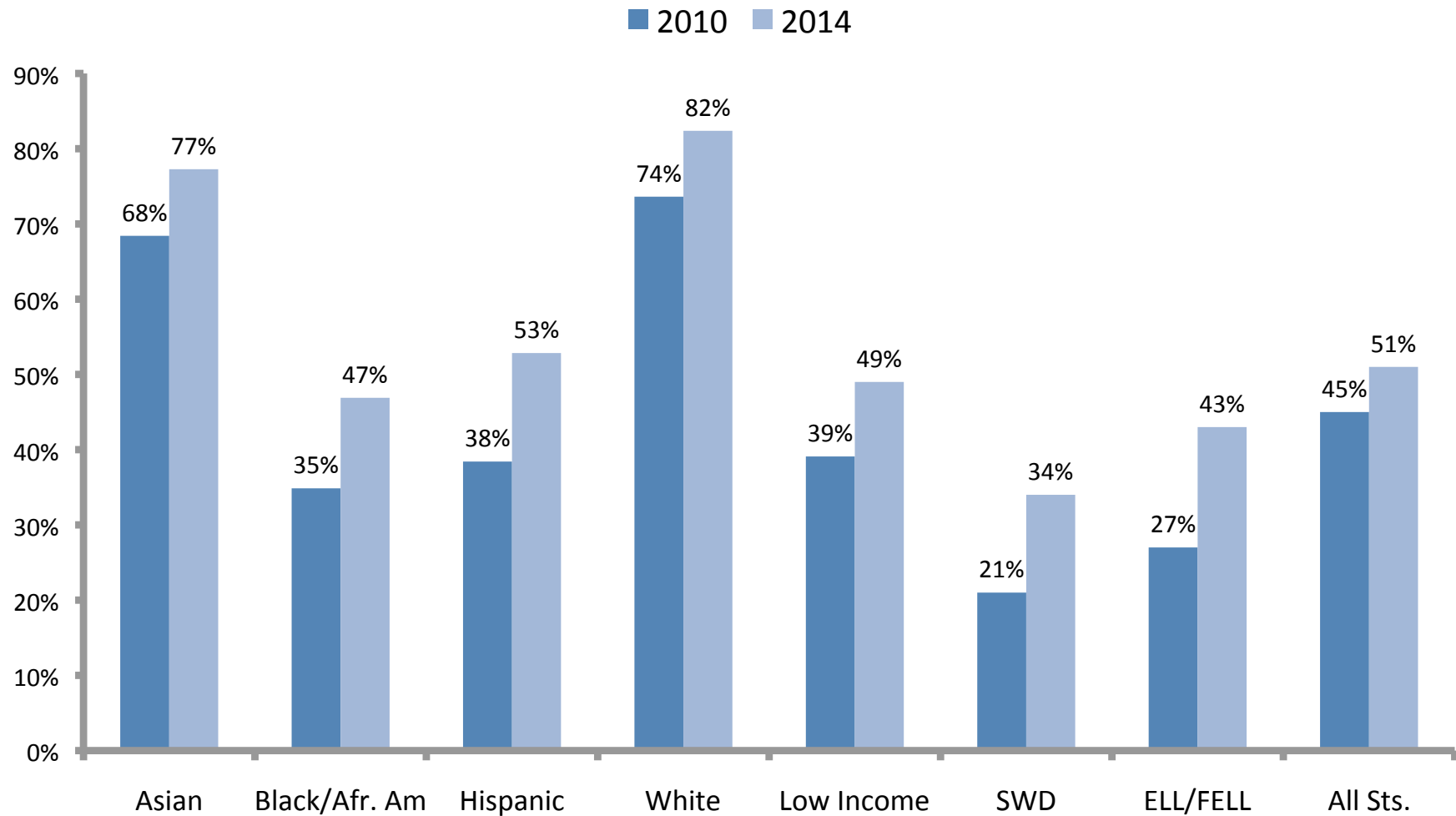
Grades 3-10 Science Subgroups Change Between 2010-2014 with State 2014



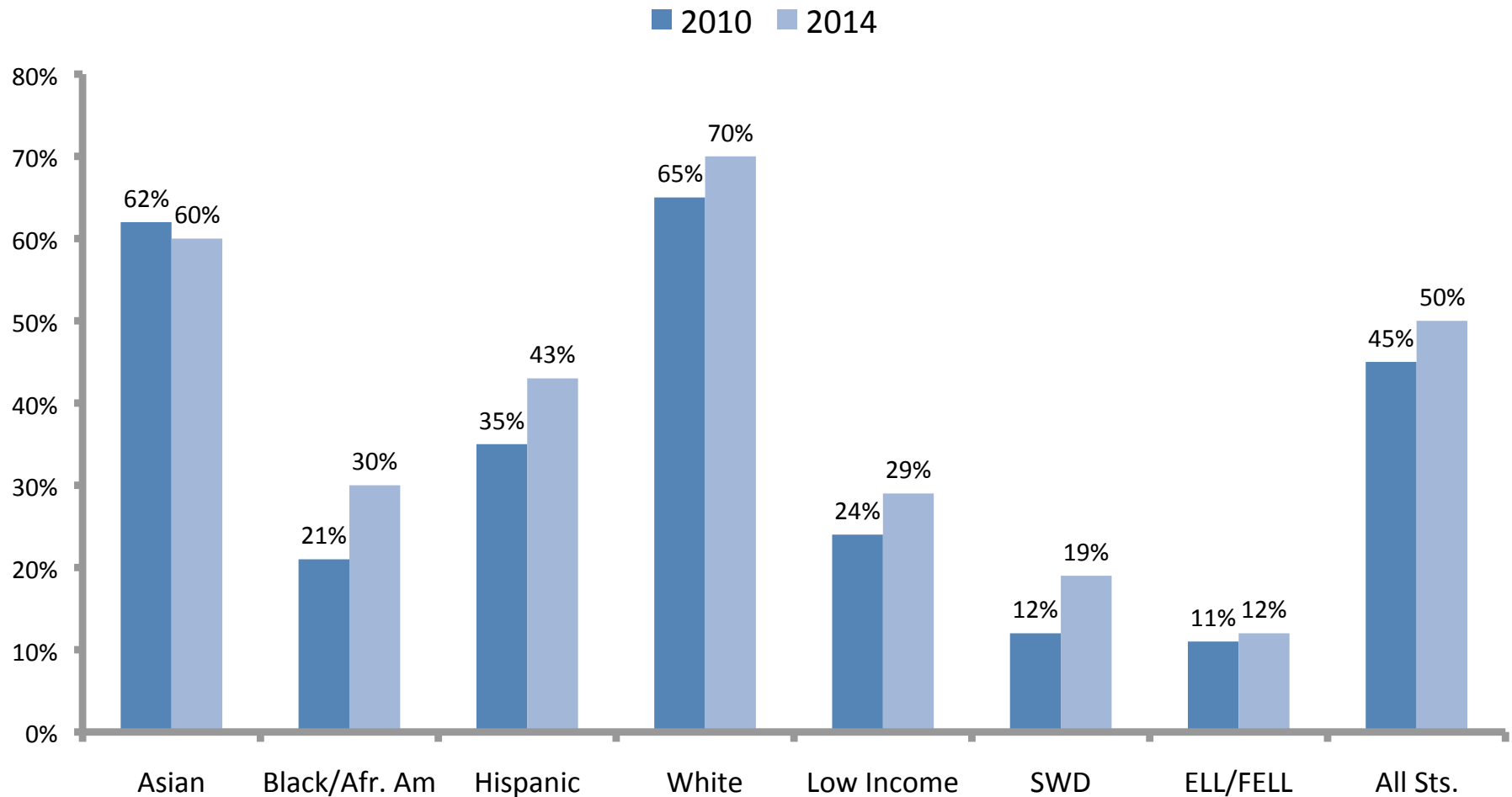
ELA Grades 3-5 - % Proficient & Advanced by Student Subgroup 2010-2014



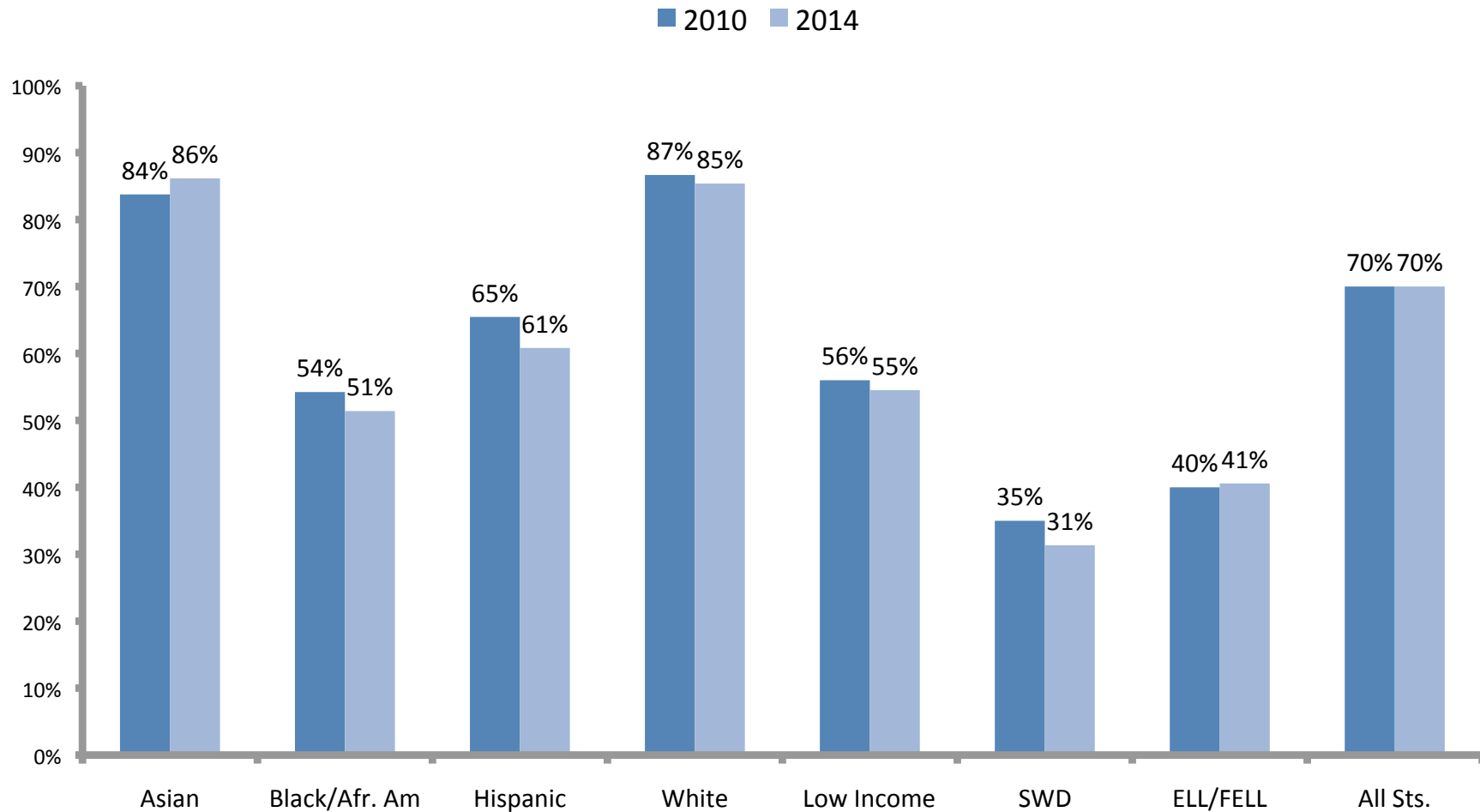
Math Grades 3-5 - % Proficient & Advanced by Student Subgroup 2010-2014



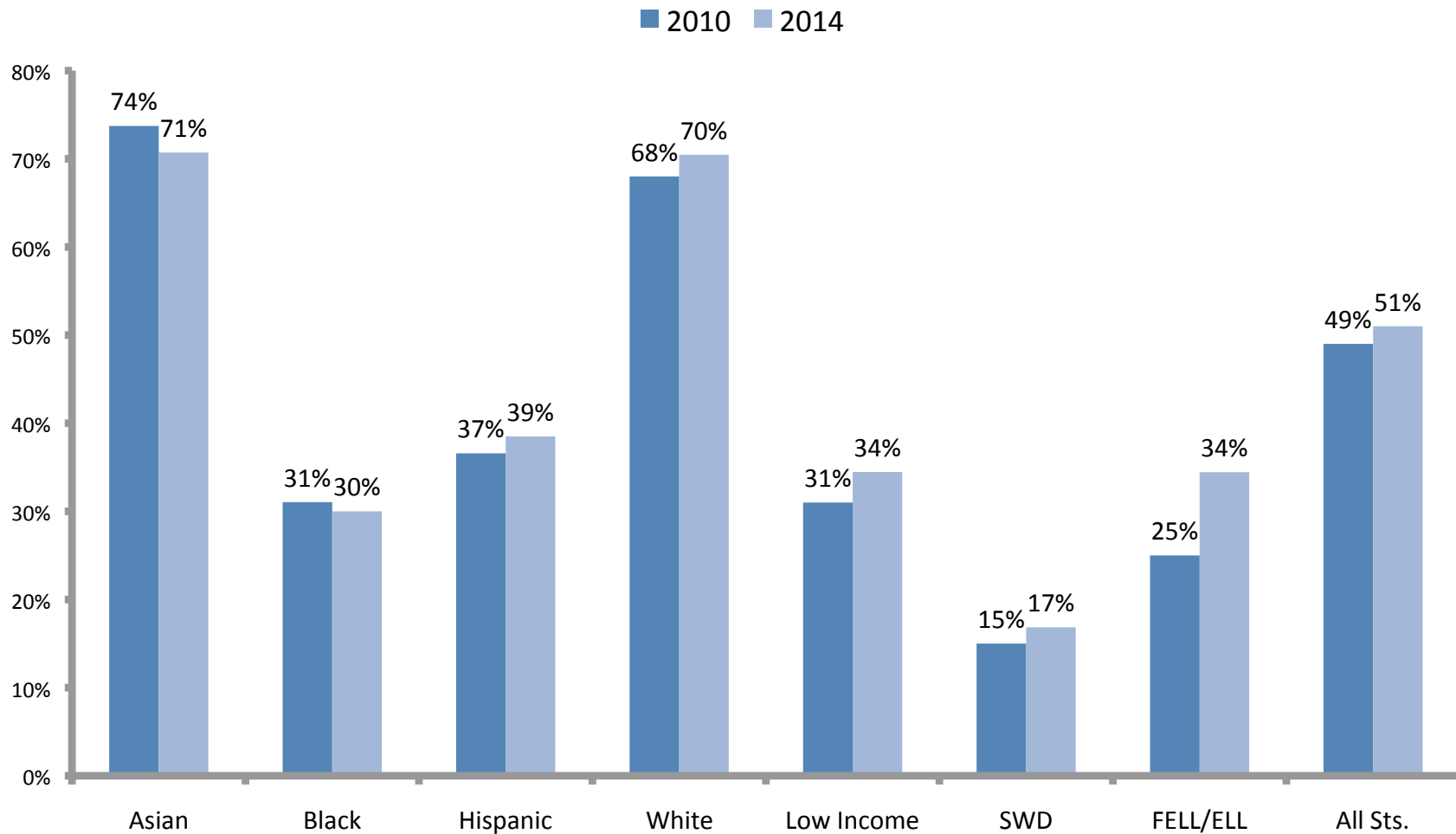
Science Grade 5 - % Proficient & Advanced by Student Subgroup 2010-2014



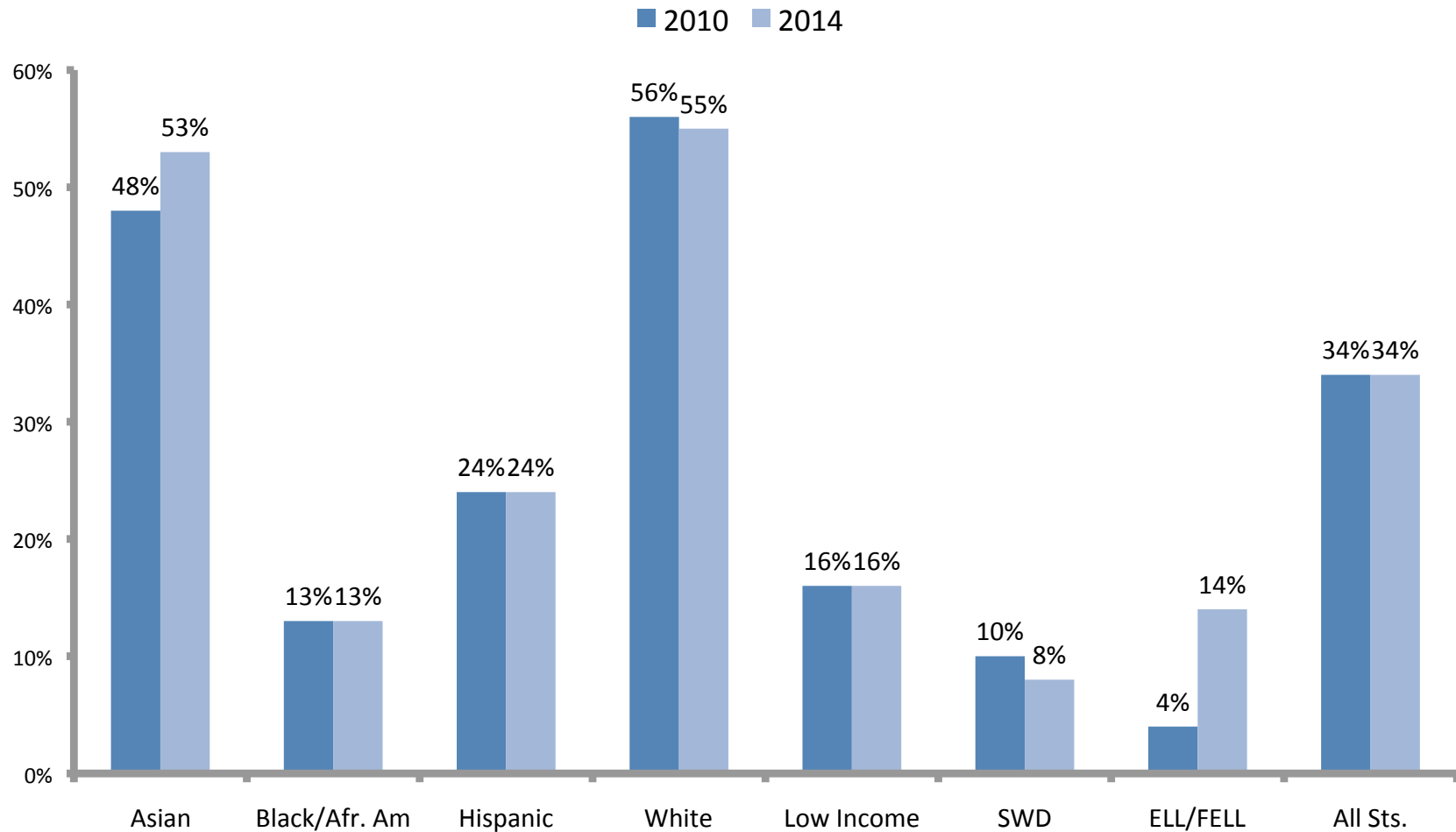
ELA Grades 6-8 - % Proficient & Advanced by Student Subgroup 2010-2014



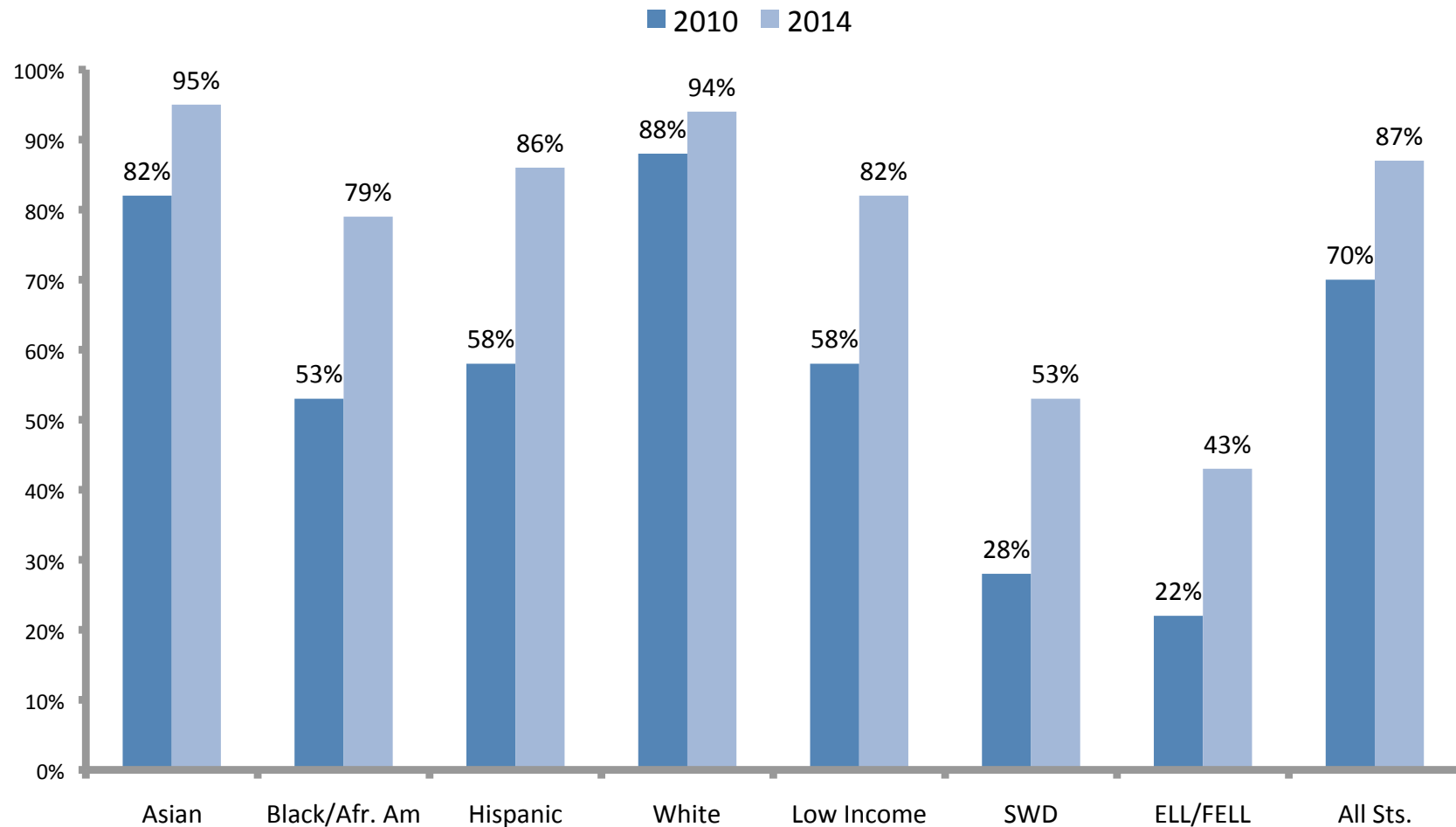
Math Grades 6-8 - % Proficient & Advanced by Student Subgroup 2010-2014



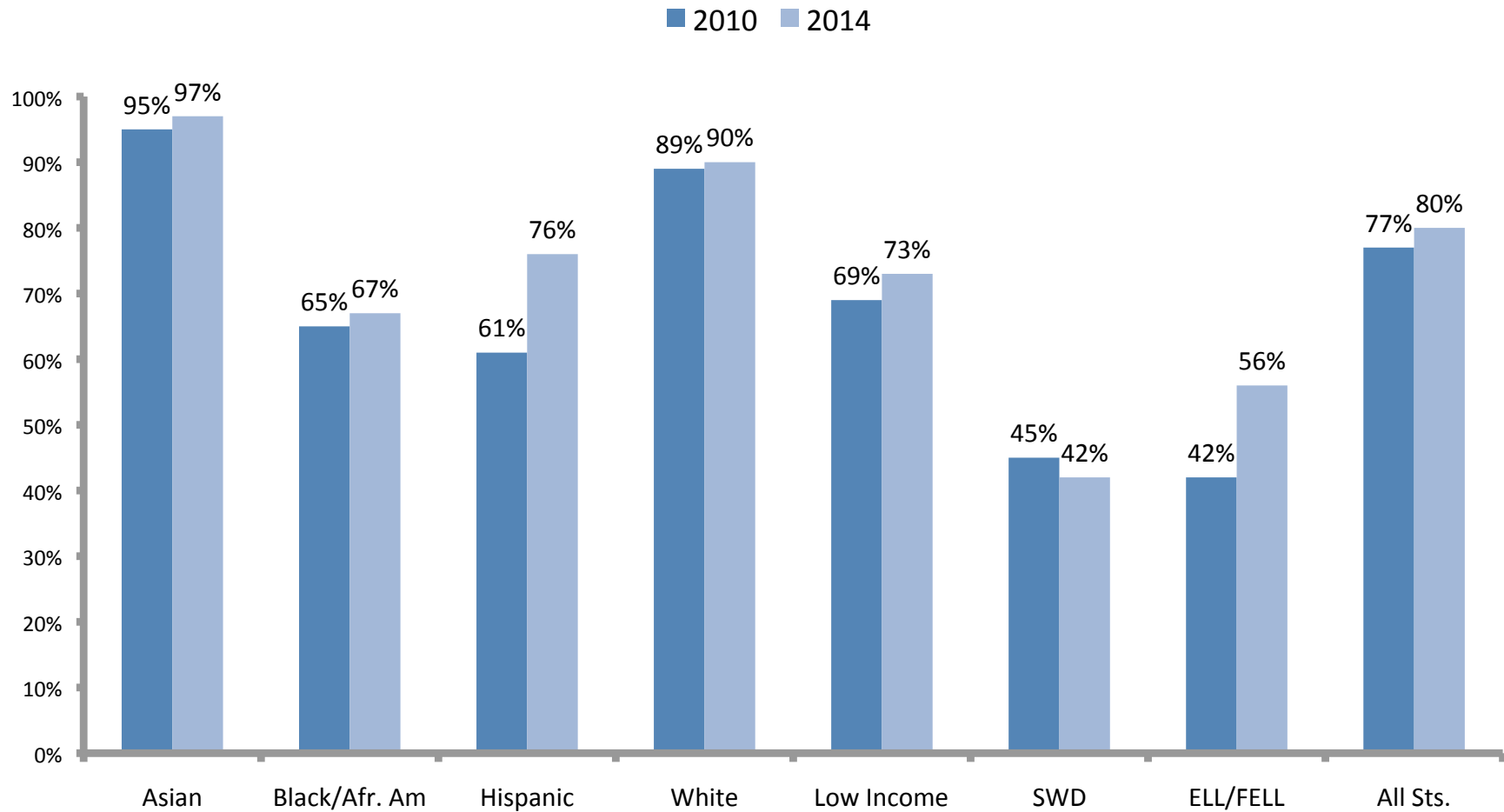
Science Grade 8 - % Proficient & Advanced by Student Subgroup 2010-2014



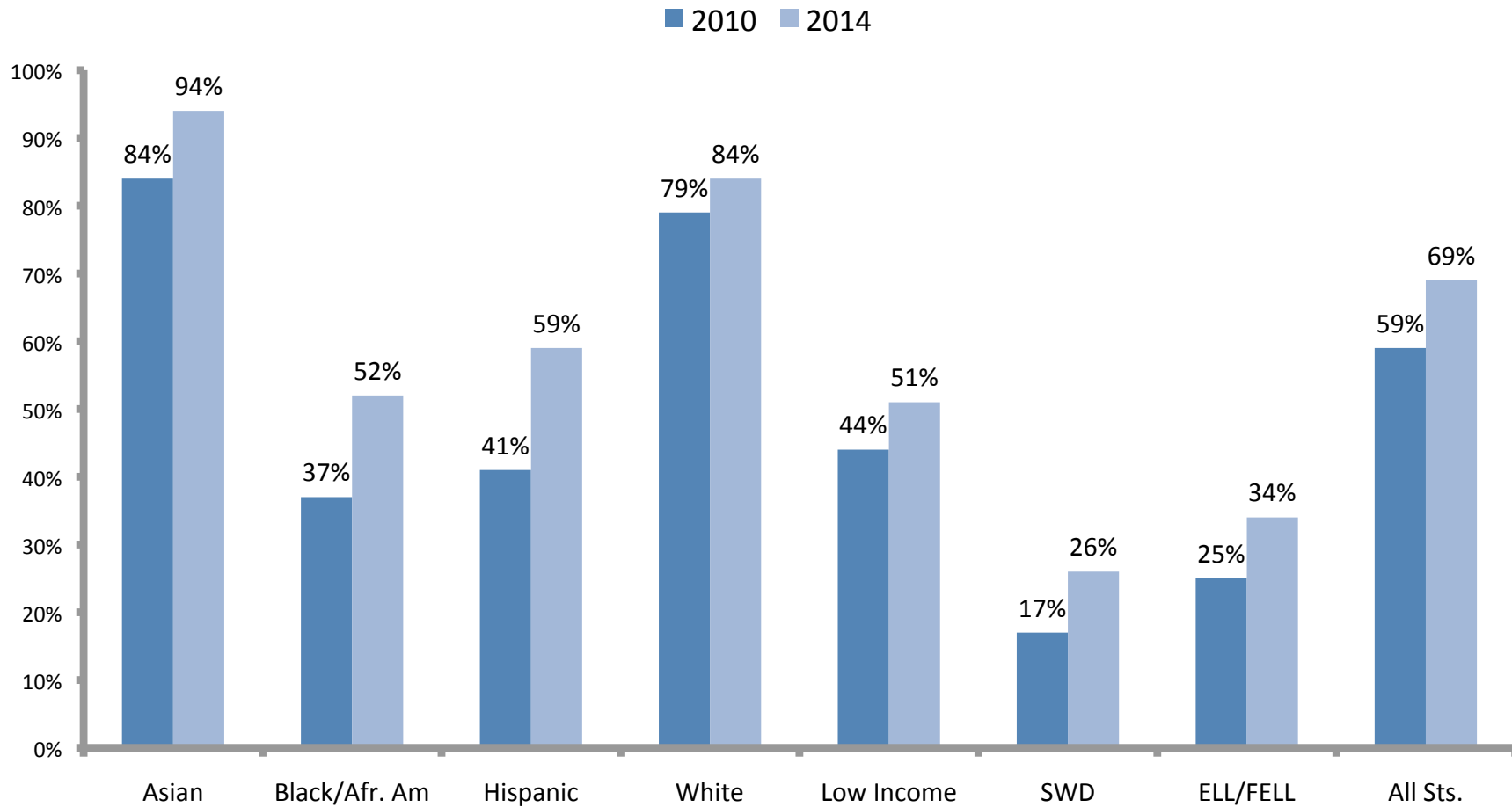
ELA Grade 10 - % Proficient & Advanced by Student Subgroup 2010-2014



MATH Grade 10 - % Proficient & Advanced by Student Subgroup 2010-2014



Science Grade 10 - % Proficient & Advanced by Student Subgroup 2010-2014

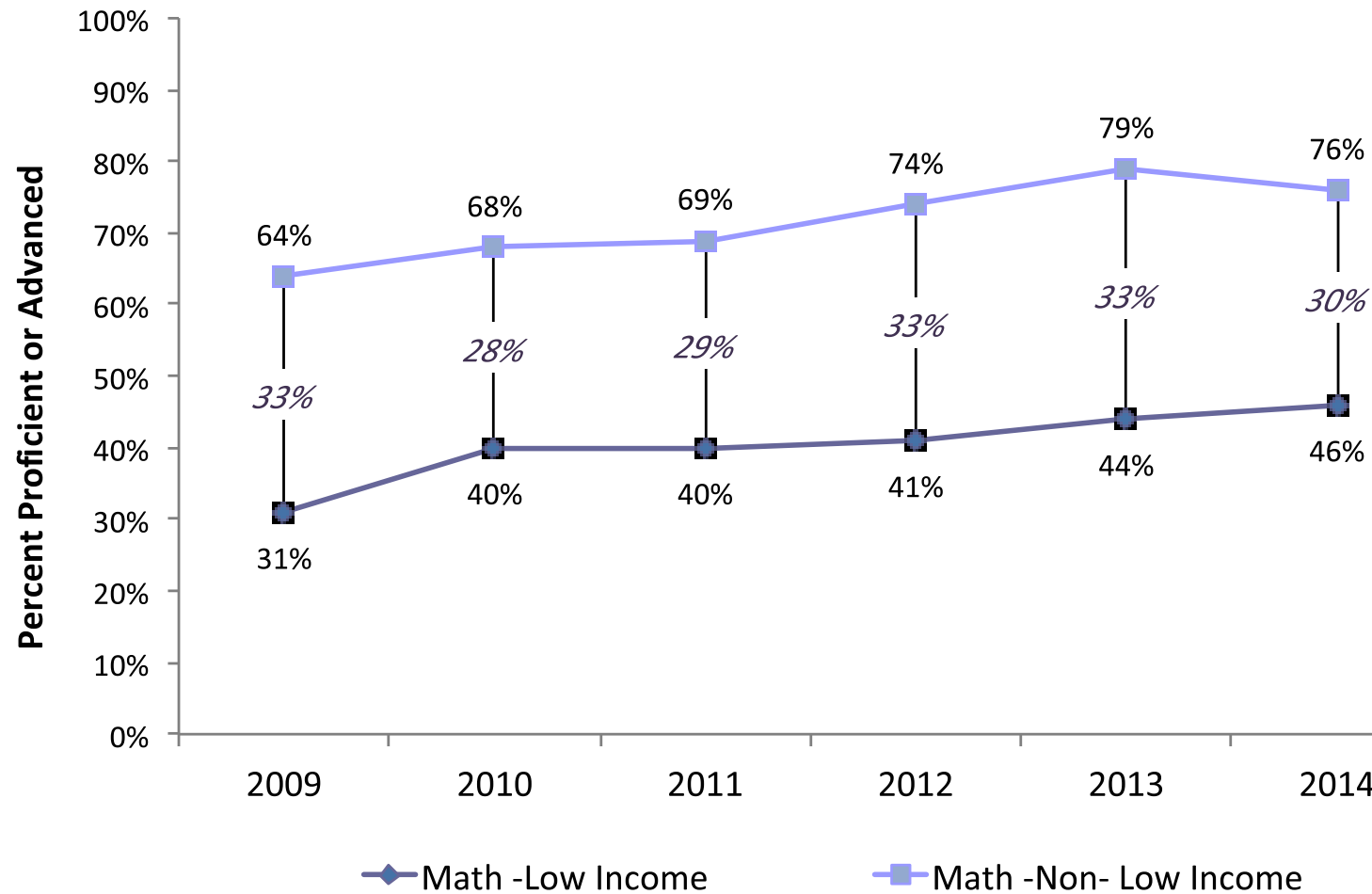


Summary

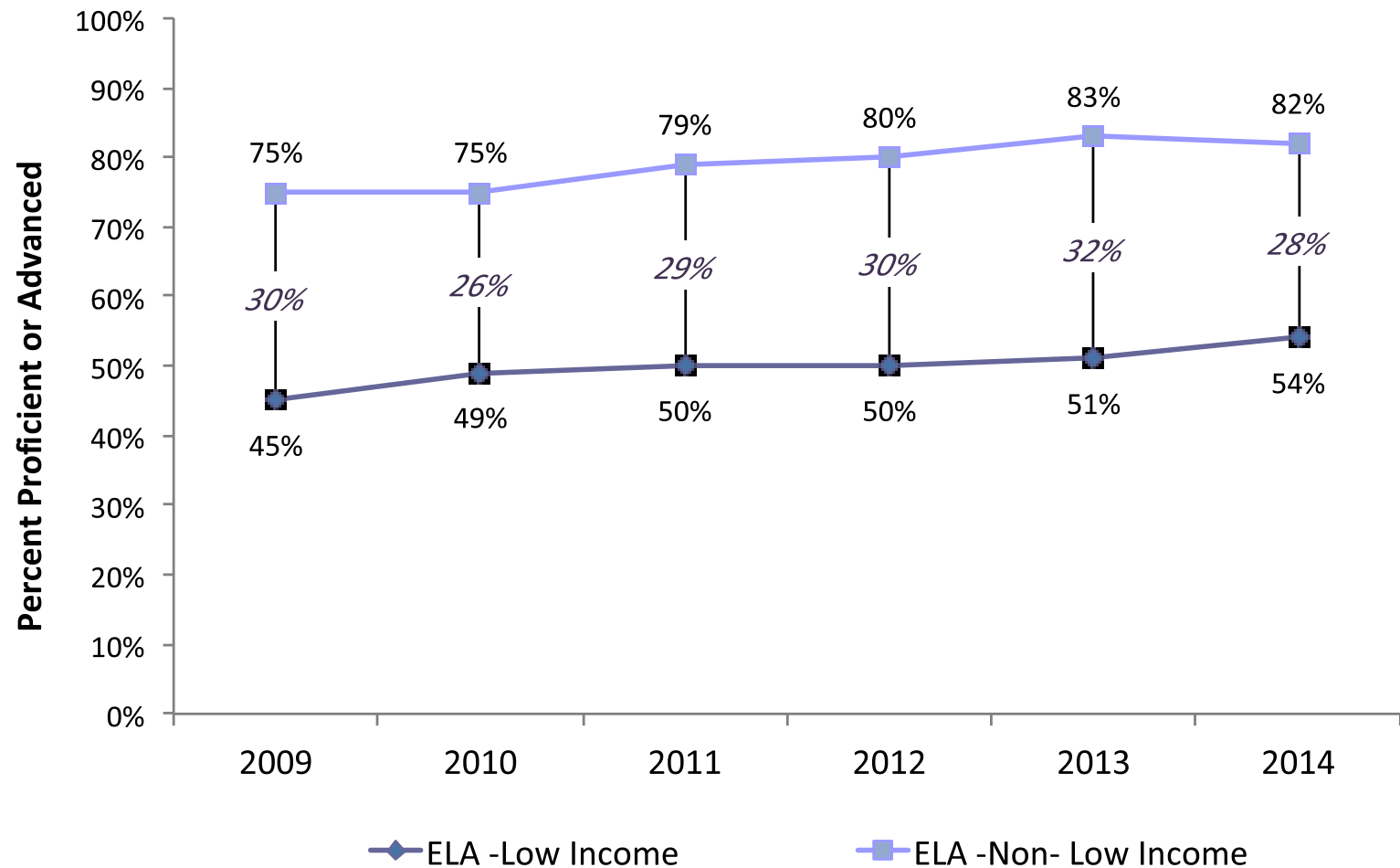
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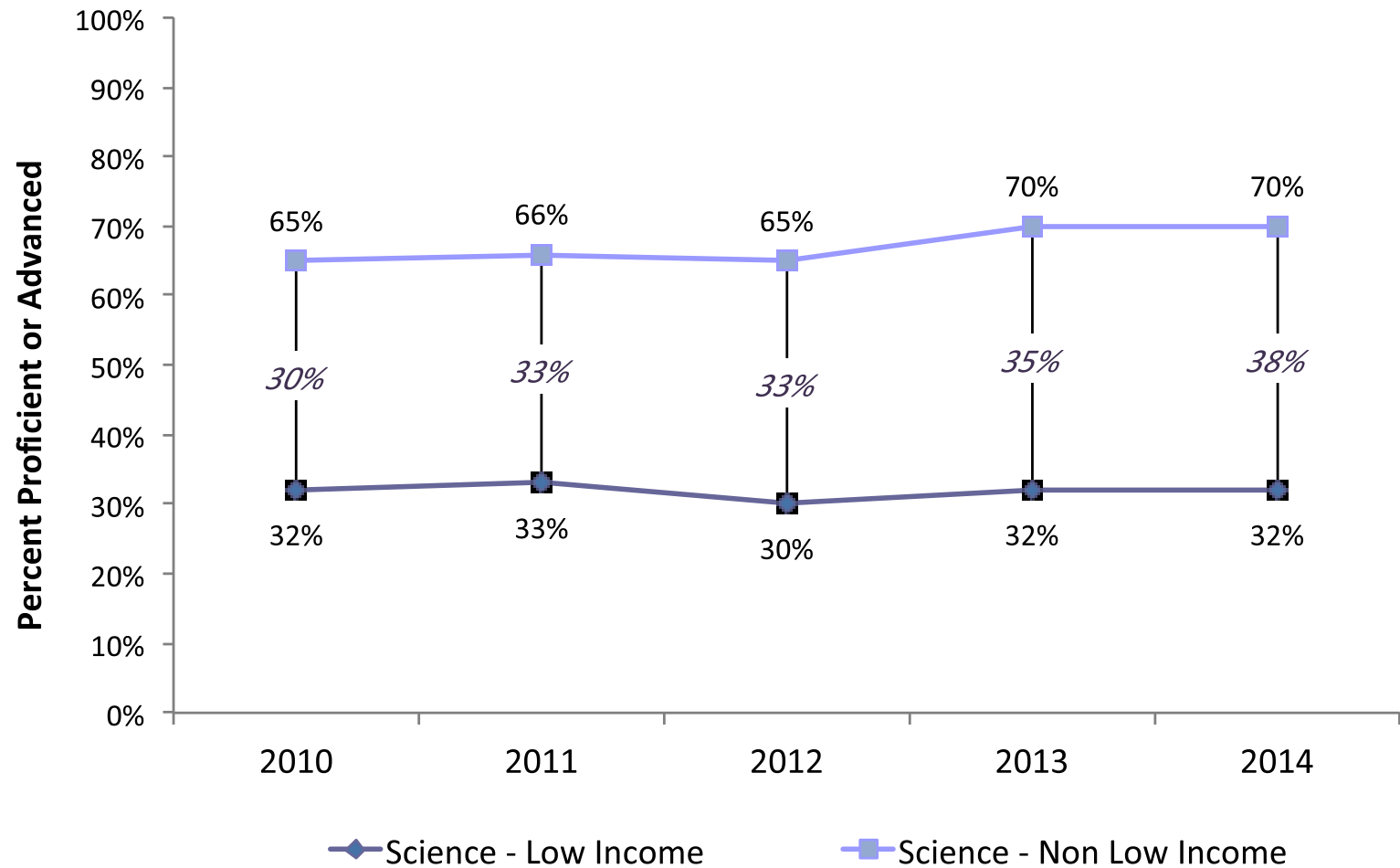
Grades 3 – 10 Math - % Proficient/Advanced for Low Income & Non-Low Income Students



Grades 3-10 ELA - % Proficient/Advanced for Low Income & Non-Low Income Students



Grades 3-10 Science - % Proficient/Advanced for Low Income & Non-Low Income Students



Performance Levels

A Deeper Analysis

Digging Deeper

- ▶ What can we learn by analyzing data behind DESE performance levels (1 – 3)?
 - ▶ Analyzing data behind performance levels forces schools to:
 - ▶ Identify targets met or missed, which provide information as to what practices are to be considered to be brought to scale.
 - ▶ Identify areas in need of greater focus.
 - ▶ Provides for trend analysis that incorporates performance plus growth.
 - ▶ A Level 3 school can make great gains in a year and still remain a Level 3 school.
- ▶ How does CPS compare overall to the state in the number of Level 1, 2, and 3 Schools?
 - ▶ In 2014, 10 schools were classified as Level 1, 4 schools were classified as Level 2, and 3 schools were classified as Level 3. This is a significant improvement since 2012, when only 4 of CPS schools were Level 1.



How Performance Levels are Determined

- ▶ **Annual PPI** combines information about narrowing proficiency gaps, growth, (and at high school also graduation and dropout rates) into a number between 0 and 100
- ▶ A PPI of 75 means on track toward meeting goals
- ▶ Must have at least 30 students to report student groups
- ▶ Annually calculated by meeting targets in...

Subject	Component #1	Component #2	Component #3
ELA	Composite Performance Index (a measure of MCAS proficiency)	Student Growth Percentile (measure of MCAS growth)	Extra Credit: reduce warning/failing or increase advanced
Math			
Science		Not available	

Cumulative PPI

- ▶ **Cumulative PPI** is the average of a school's annual PPIs over the most recent four year period, **weighting recent years the most (4-3-2-1)**
- ▶ All schools in MA are classified into Levels 1 – 2 using cumulative PPI for all students *and* high needs students.
 - ▶ Level 1: Cumulative PPI = 75 + for all students and high needs
 - ▶ Level 2: Either or both group (all students and high needs students) has Cumulative PPI less than 75



School Percentiles

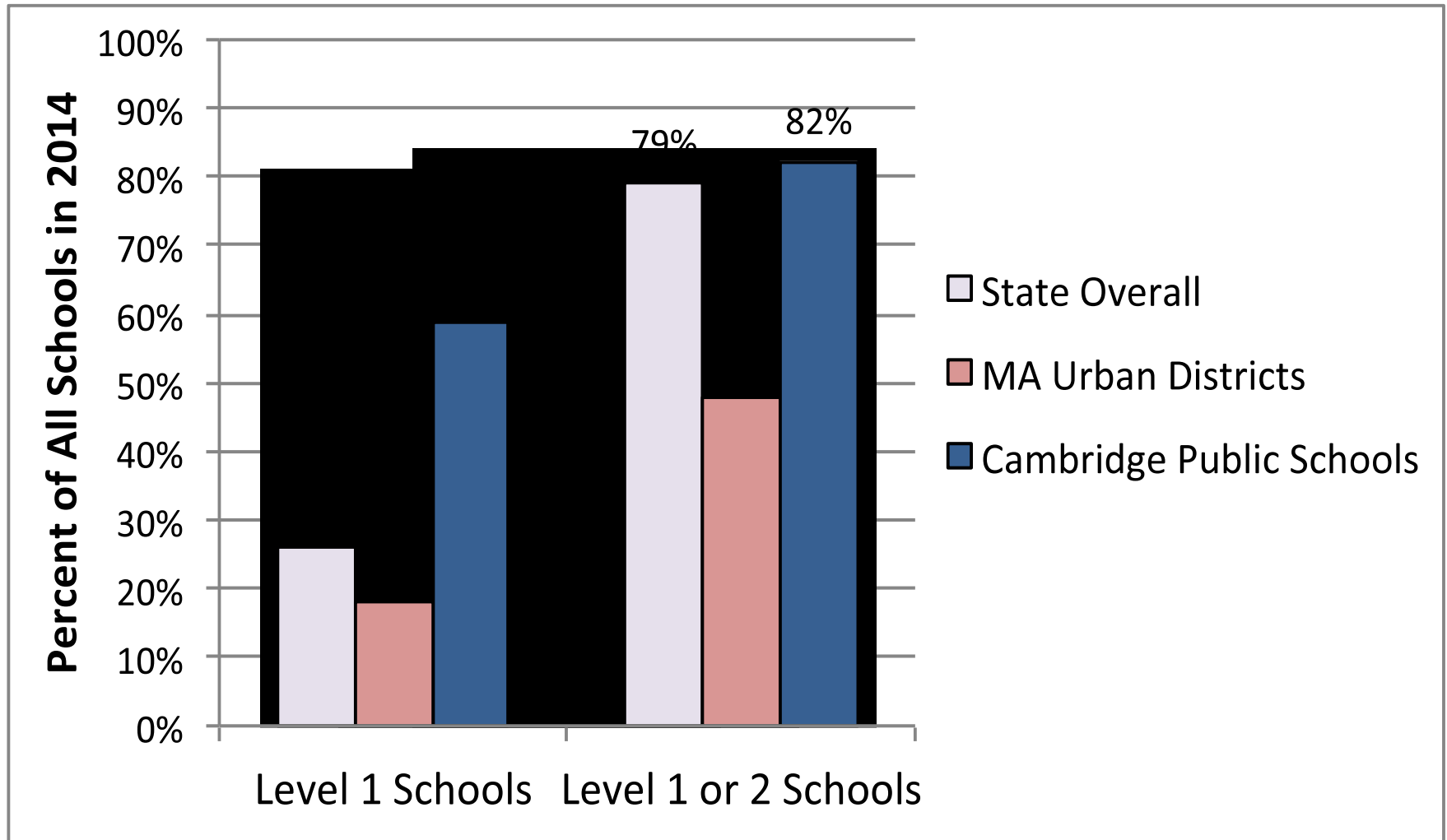
- ▶ **School Percentile** is an indication of a school's overall **performance** relative to other schools that serve the same or individual grades.
- ▶ Calculated somewhat similarly to PPI (e.g. weighting years 4-3-2-1), except that **achievement is weighted three times higher than improvement**
 - ▶ Thus, a school can have a high cumulative PPI, but a low school %ile.
 - ▶ There is less transparency from DESE re: calculations of School %iles.

Level 3 Determination

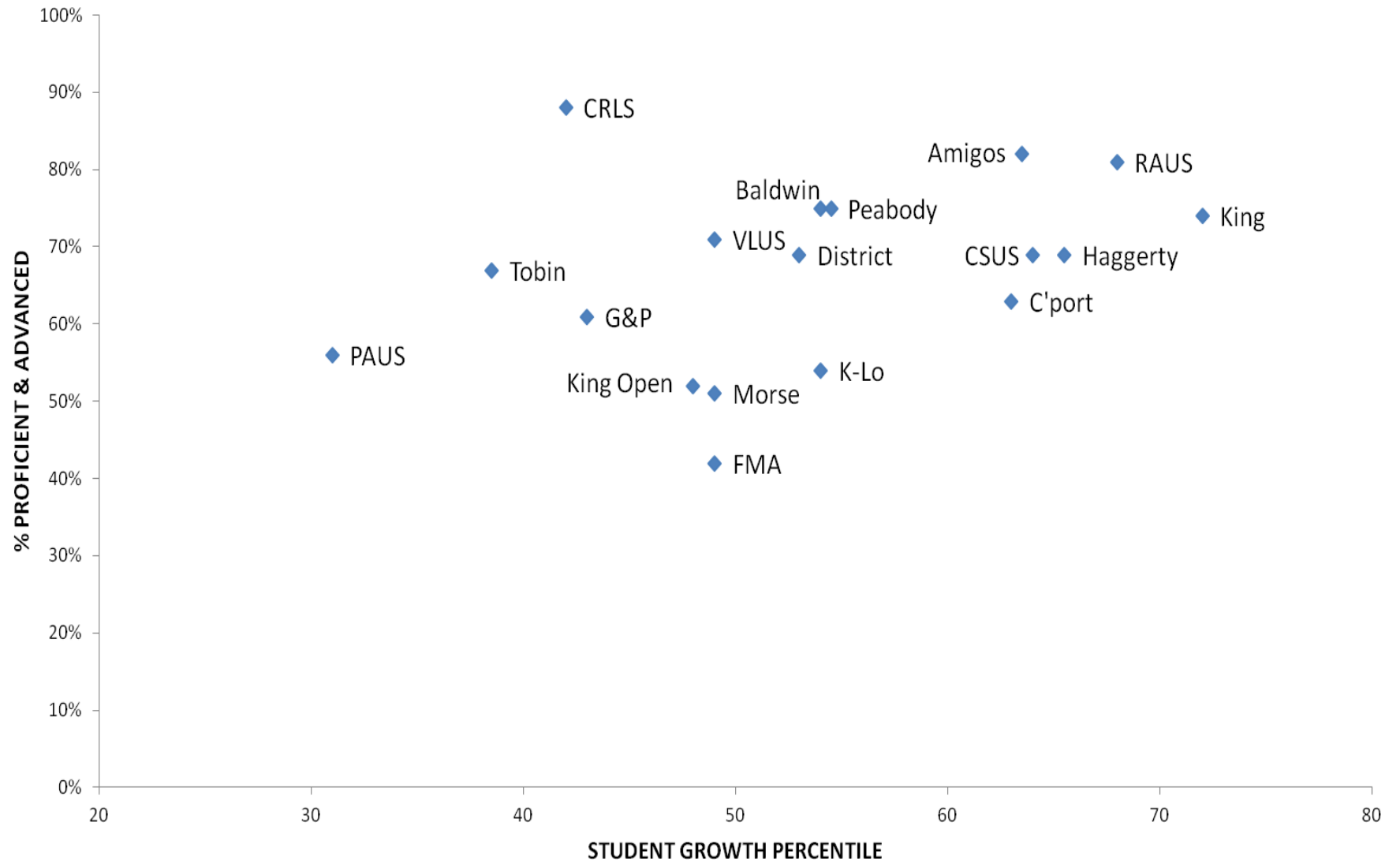
- ▶ **Level 3 Schools Determined By:**
 - ▶ **School Percentile in lowest 20%** of all schools at same or similar grade level in state OR
 - ▶ **One or more subgroups** in lowest 20% of that subgroup
- ▶ Levels 4 and 5: Most serious designation, made by Commissioner



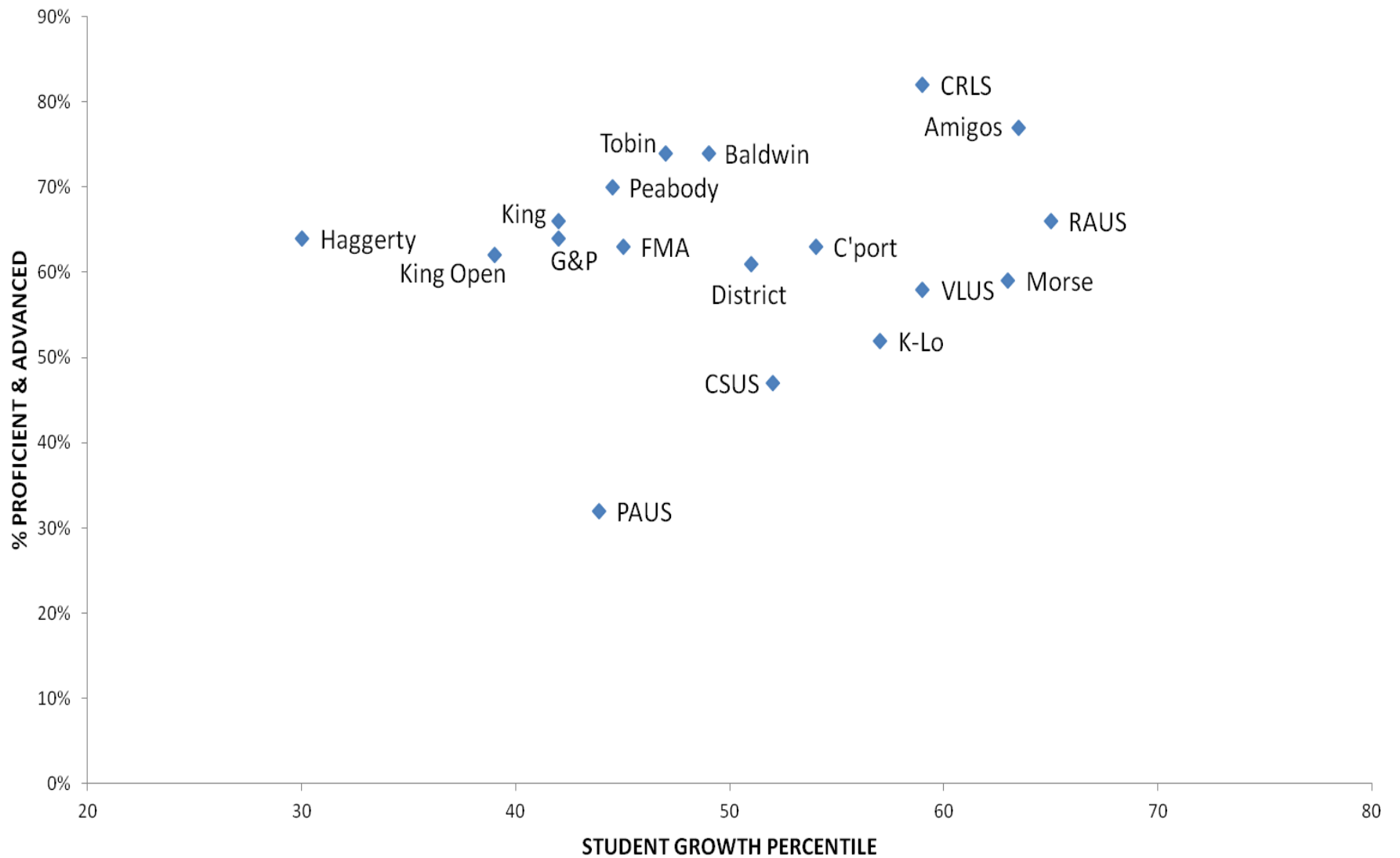
Level 1 and 2 Schools in CPS vs. State



ELA - Student Growth Percentile by %Proficient/Advanced



Math - Student Growth Percentile by %Proficient/Advanced



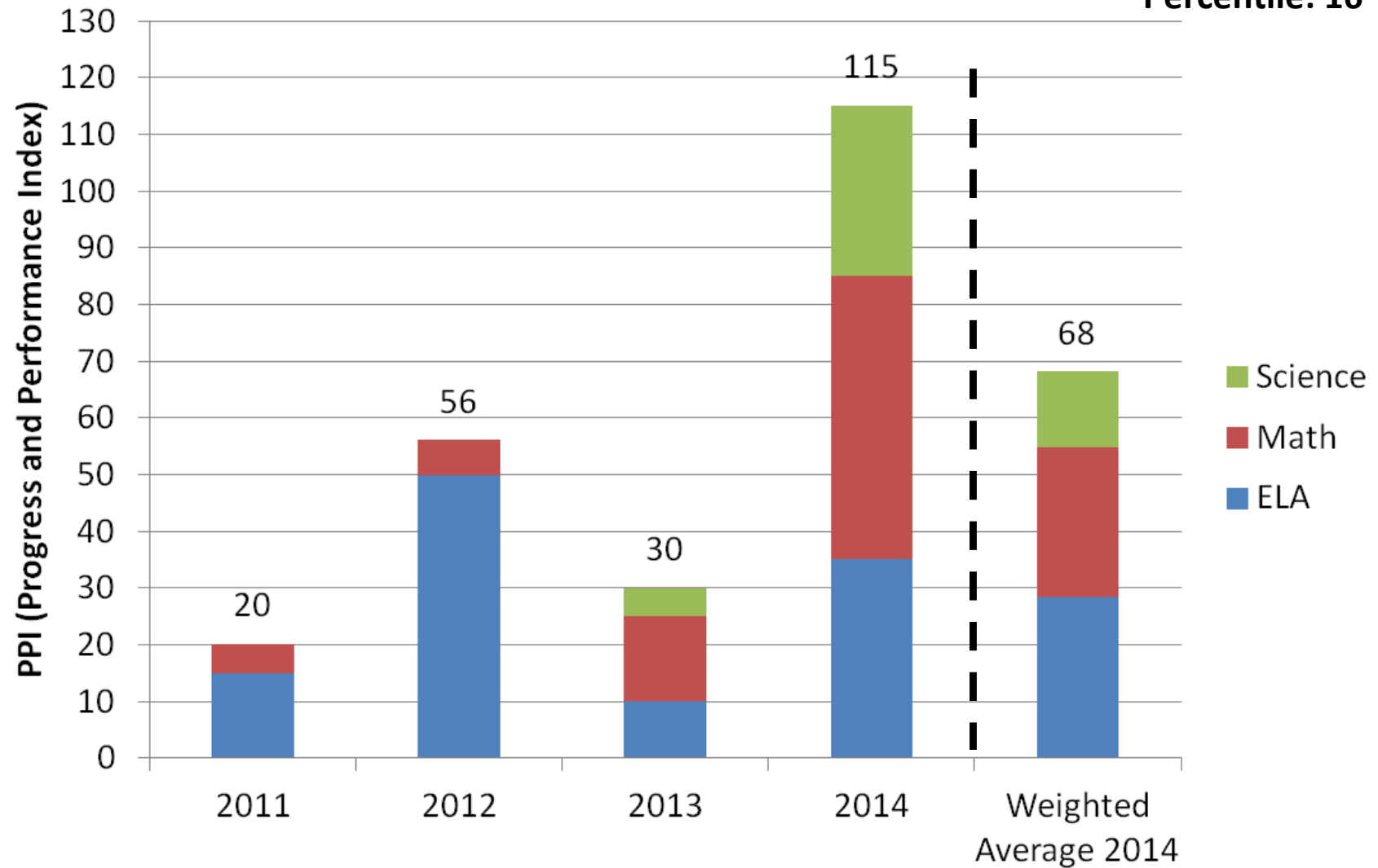
Focusing on Level 3 Schools

- ▶ Although 82% of CPS schools are Level 1 or 2, we have three Level 3 Schools this year:
 - ▶ Kennedy Longfellow
 - ▶ King Open
 - ▶ Putnam Avenue
- ▶ It is important to understand the history of performance and growth at these schools to understand how to best support their progress

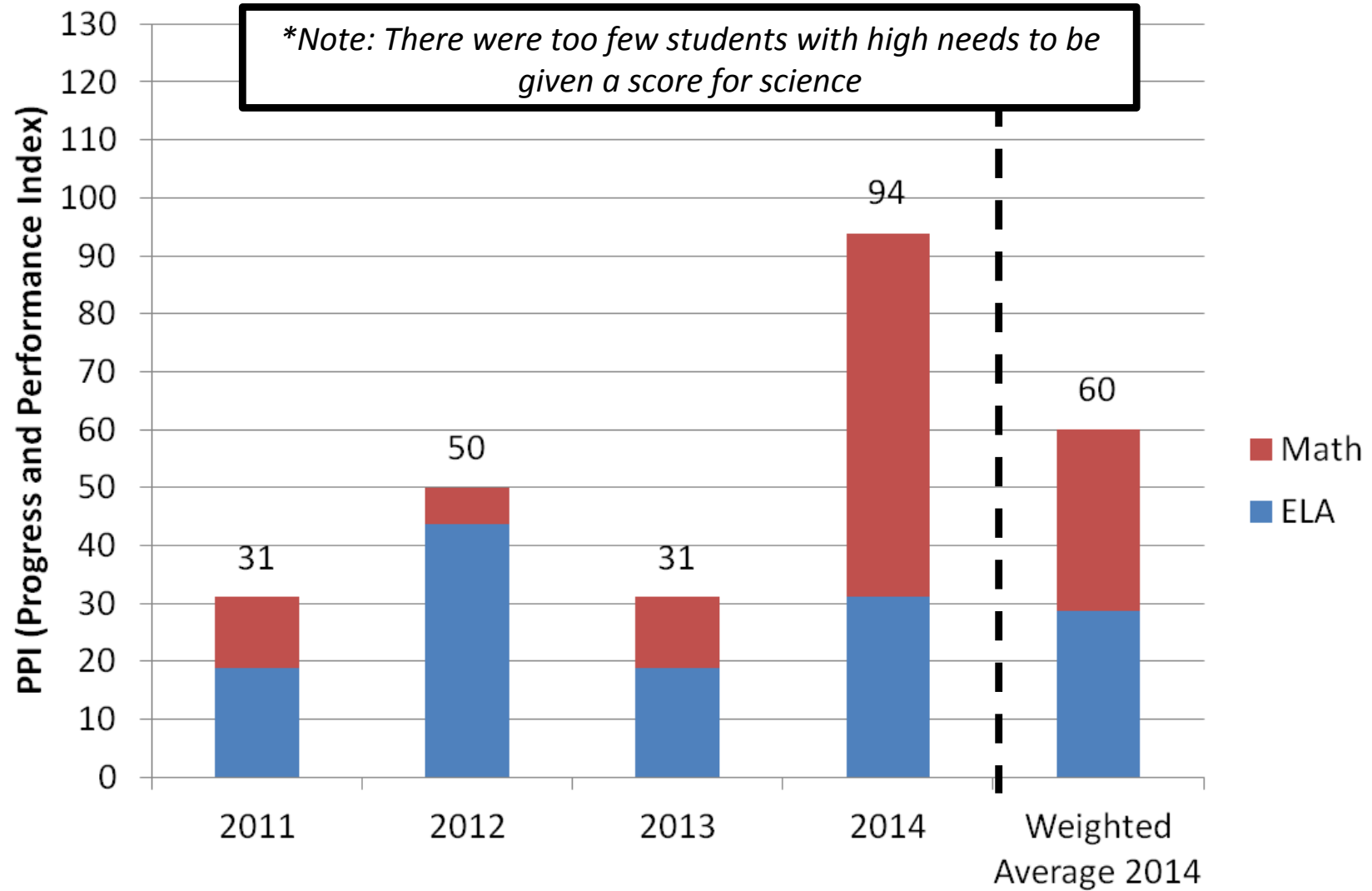


Kennedy Longfellow - All Students

2014 School
Percentile: 16th

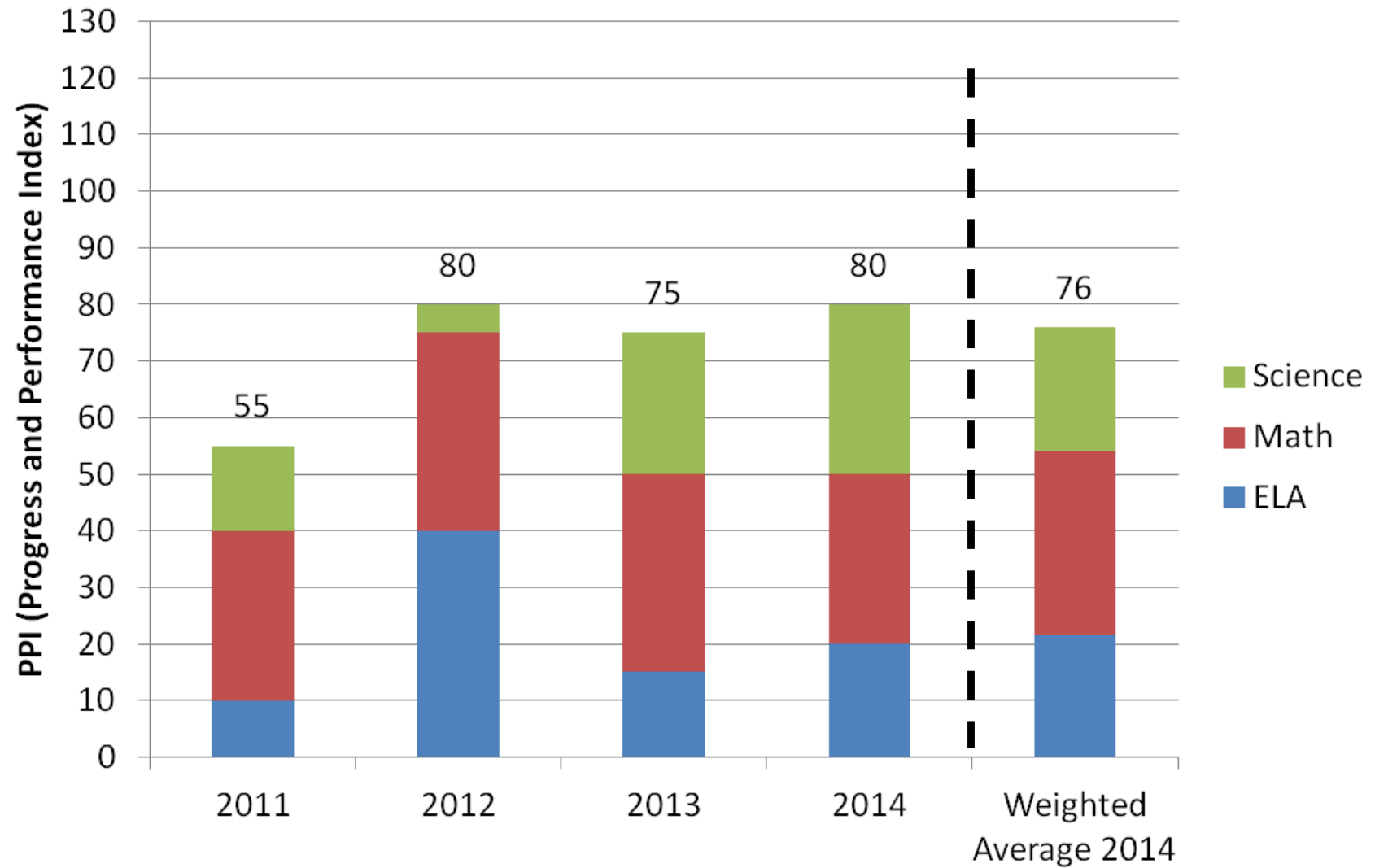


Kennedy Longfellow - Students with High Needs

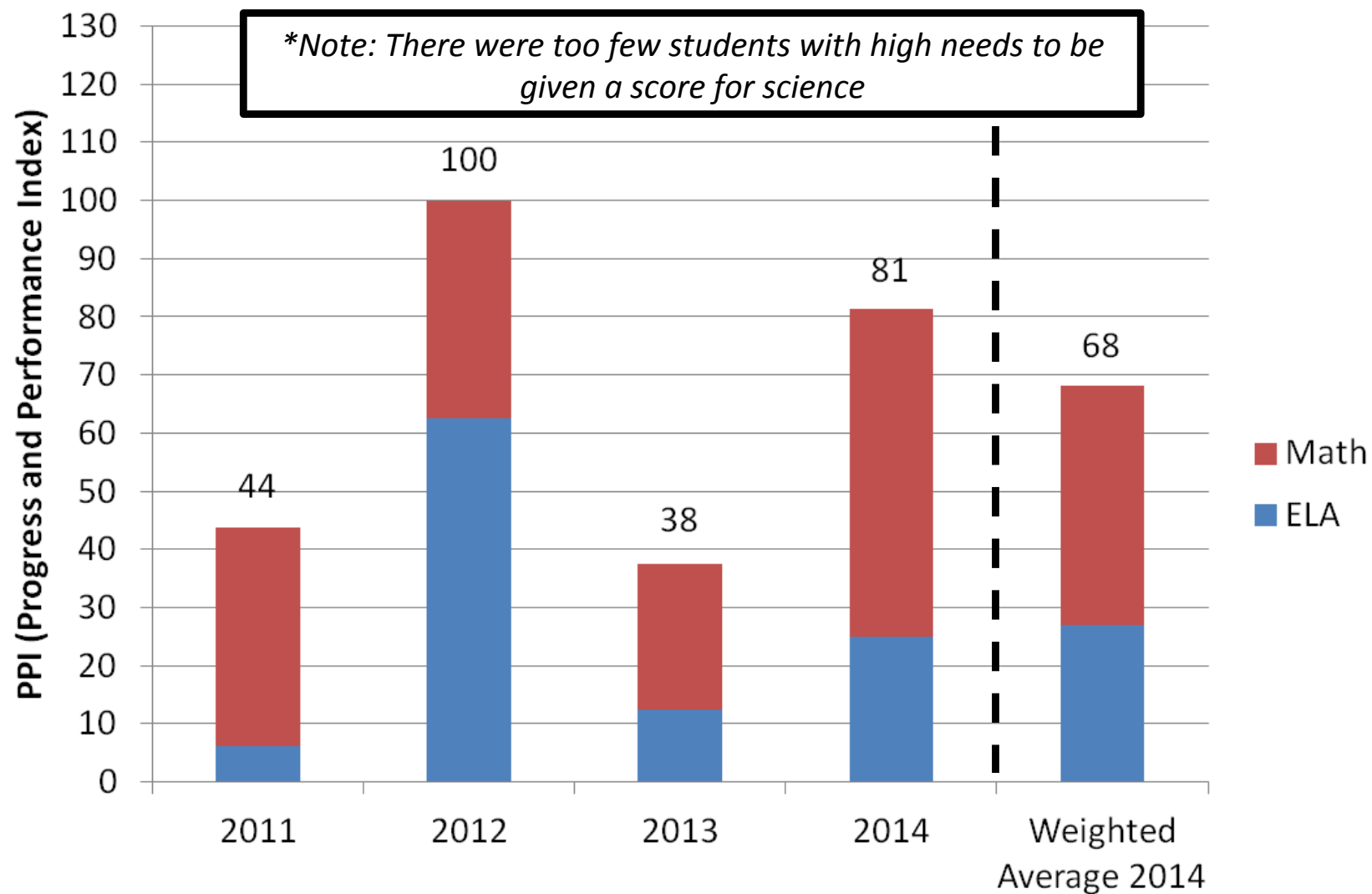


King Open - All Students

2014 School
Percentile: 29th

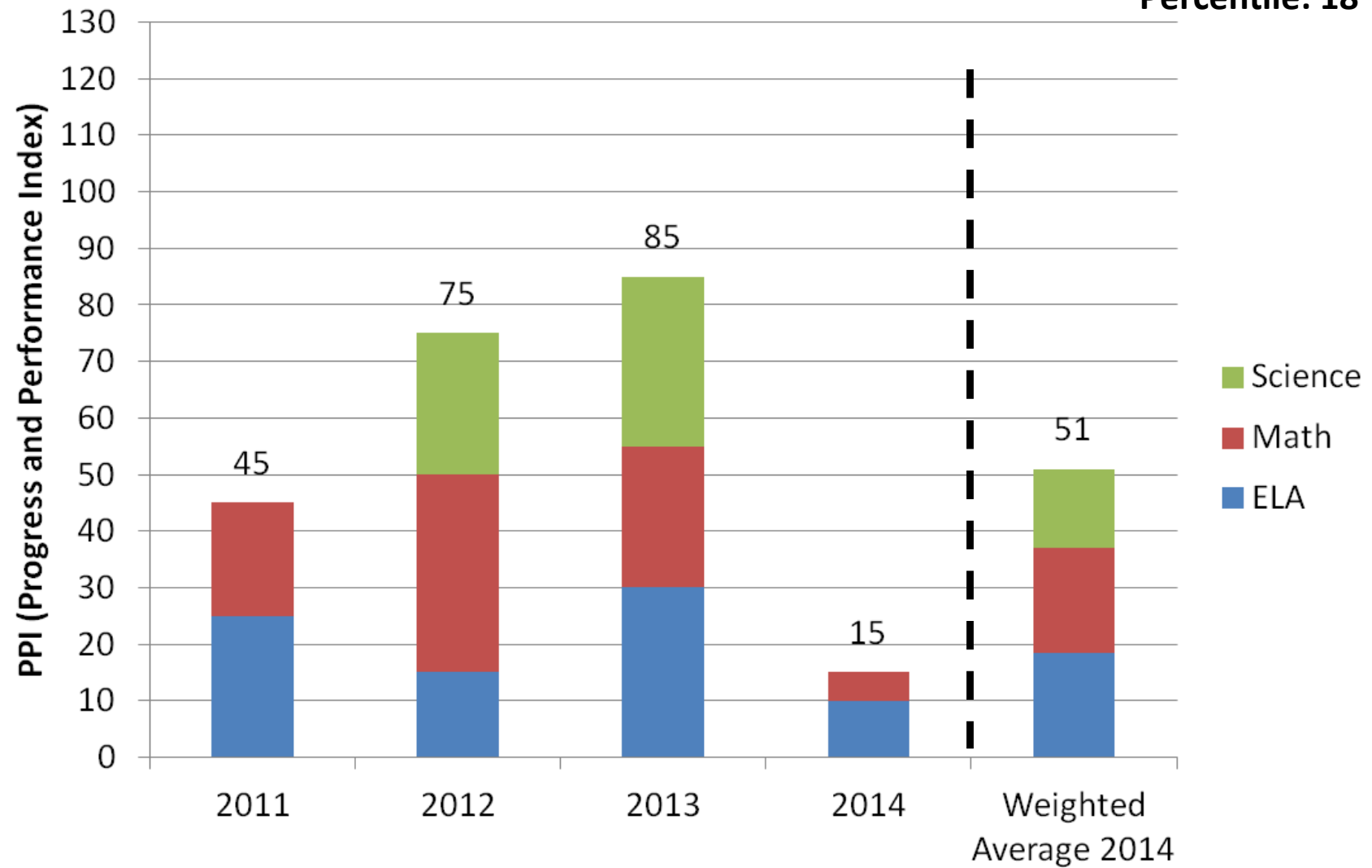


King Open - Low Income Students

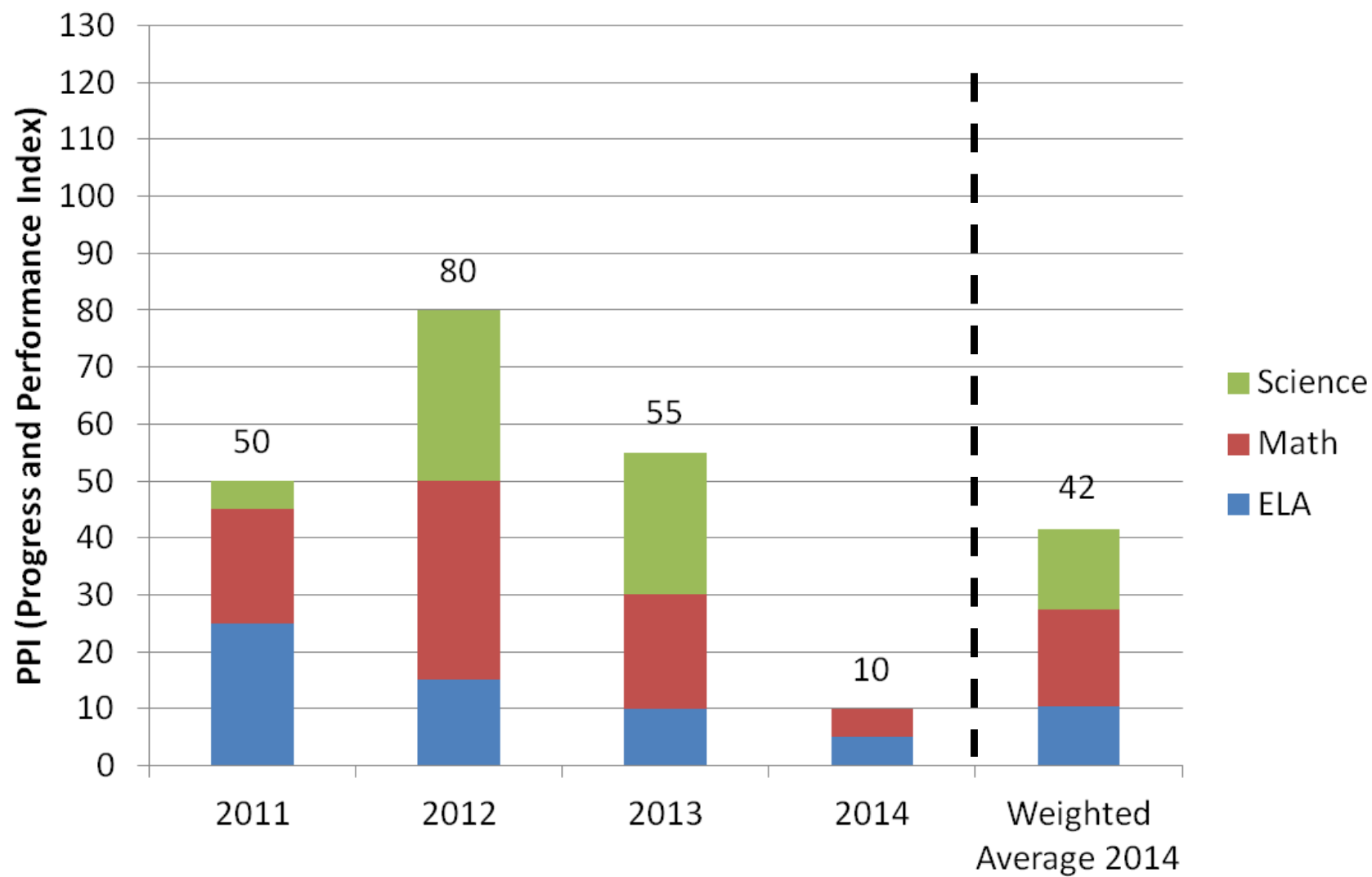


Putnam Avenue - All Students

2014 School
Percentile: 18th



Putnam Avenue - Students with High Needs



Overall Summary

- ▶ Level 3 Schools in Year 2 of Level 3 status have shown significant improvement in 2014.
- ▶ PAUS has completed an extensive data analysis and identified key strategies for improvement that will be presented in their SIP.
- ▶ Gains across elementary schools in ELA, Math, and Science are noteworthy.
- ▶ Grades 6 – 10 progress in ELA, Math, and Science requires further analysis and attention.
- ▶ Progress amongst student groups (e.g. African American/ Black, Hispanic/Latino, Students with Disabilities) have shown significant growth since 2009.



Questions for All of Us Moving Forward

- ▶ Is what we are doing working? How do we know?
- ▶ Are we building confidence and self-esteem in our students?
- ▶ Are we building supportive learning environments?
- ▶ Are we infusing a sense of academically engaged time within our classrooms with our students?
- ▶ Are our district and/or school improvement strategies targeted to meet areas of greatest need evidenced in the data?
- ▶ What are the strengths, weaknesses, opportunities, and threats that will impact our district improvement moving forward?



Current Areas of Focus

- ▶ Educator Evaluation System Year 3
- ▶ Developing Capacity in Instructional Leadership – Highly Effective Teaching Project
- ▶ Curriculum & Instruction: Curriculum Review Cycle.
- ▶ Educator Development and Support
- ▶ Office of Student Services: Strategic Planning Process
- ▶ District Improvement Plan
- ▶ Establish District-Wide Framework for Response to Intervention



Current Areas of Focus

- ▶ Continued RETELL training for all teachers & administrators
- ▶ Continued improvement planning in *all* schools
- ▶ District Accountability Review and Targeted support from state's District & School Assistance (DSAC) Center



