

Massachusetts Comprehensive Assessment System (MCAS)

Arlington Public Schools

MCAS Analysis

2010

Presented by: Dr. Wallis Raemer, Interim Assistant Superintendent

Prepared by: LeiLanie D'Agostino, Director of Data Integration

Preface

- **District scores include the scores of students in out-of-district placements.**
- **Scores are reported as Advanced + Proficient = A+P**
- **Presentation will look at the following:**
 - ♦ **District grade level performance**
 - ♦ **Cohort performance**
 - ♦ **Subgroup results**
 - ♦ **Growth data**

District Overview

- High achieving district with moderate to very high student growth
- Achievement well above state averages (range of 9%-30%)
- Cohort group analysis shows marked improvement in achievement as students move from elementary grades to high school
- 88% of APS rankings are in the top quarter in the state

Arlington Public Schools Ranking on 2010 MCAS

Grade Level	ELA Rank	% (top)	Math Rank	% (top)	Science Rank	% (top)
3	33 rd /303	11%	66 th /303	22%		
4	35 th /300	12%	34 th /300	11%		
5	53 rd /308	17%	38 th /308	12%	12 th /308	4%
6	38 th /313	12%	79 th /313	25%		
7	49 th /284	17%	47 th /284	17%		
8	30 th /282	11%	61 st /282	22%	40 th /282	14%
10	109 th /283	39%	78 th /283	28%	82 nd /283	29%

*District ELA
2010*

On average 85% of our students scored
Advanced or Proficient

2010 ELA Proficiency (A+P) Scores

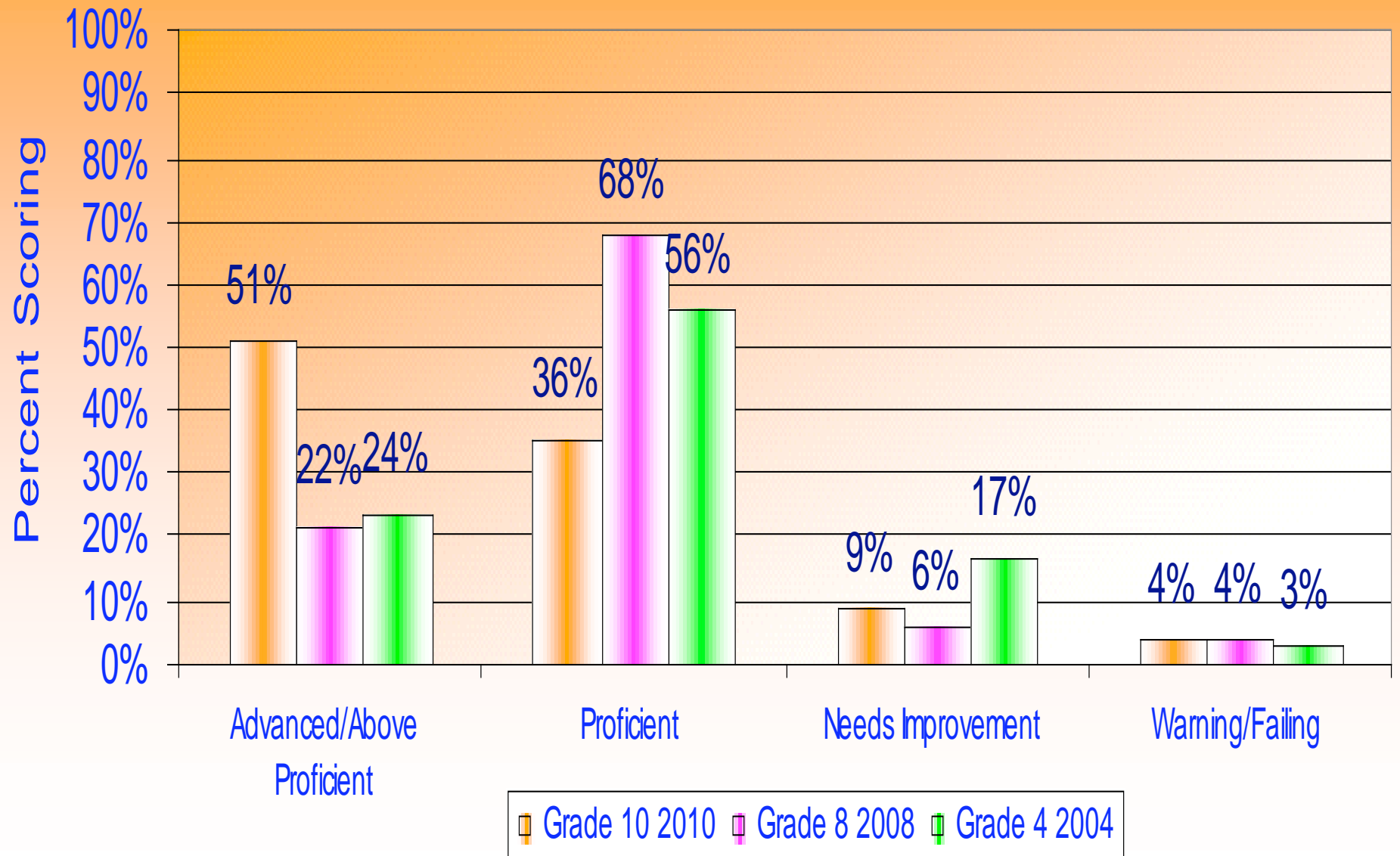
- Stratton is ranked #8 in the state in 5th grade ELA.
- Notable gains in 8th grade.

	<u>2008</u>	<u>2009</u>	<u>2010(APS)</u>	<u>2010(State)</u>
10 th Grade	89%	92%	87%	78%
8 th Grade	90%	89%	93%	78%
7 th Grade	85%	90%	88%	72%
6 th Grade	88%	85%	88%	69%
5 th Grade	87%	84%	80%	63%
4 th Grade	75%	79%	77%	54%
3 rd Grade	78%	81%	82%	63%

The effect of the reading initiative continues to be reflected in the 2010 MCAS reading scores.

Grade	Year	Advanced + Proficient	Needs Improvement	Warning
3	2010	82%	16%	2%
3	2009	81%	16%	3%
3	2008	78%	18%	4%
3	2007	77%	20%	2%

Current Grade 11 Cohort ELA MCAS Results Over Time



***District Mathematics
2010***

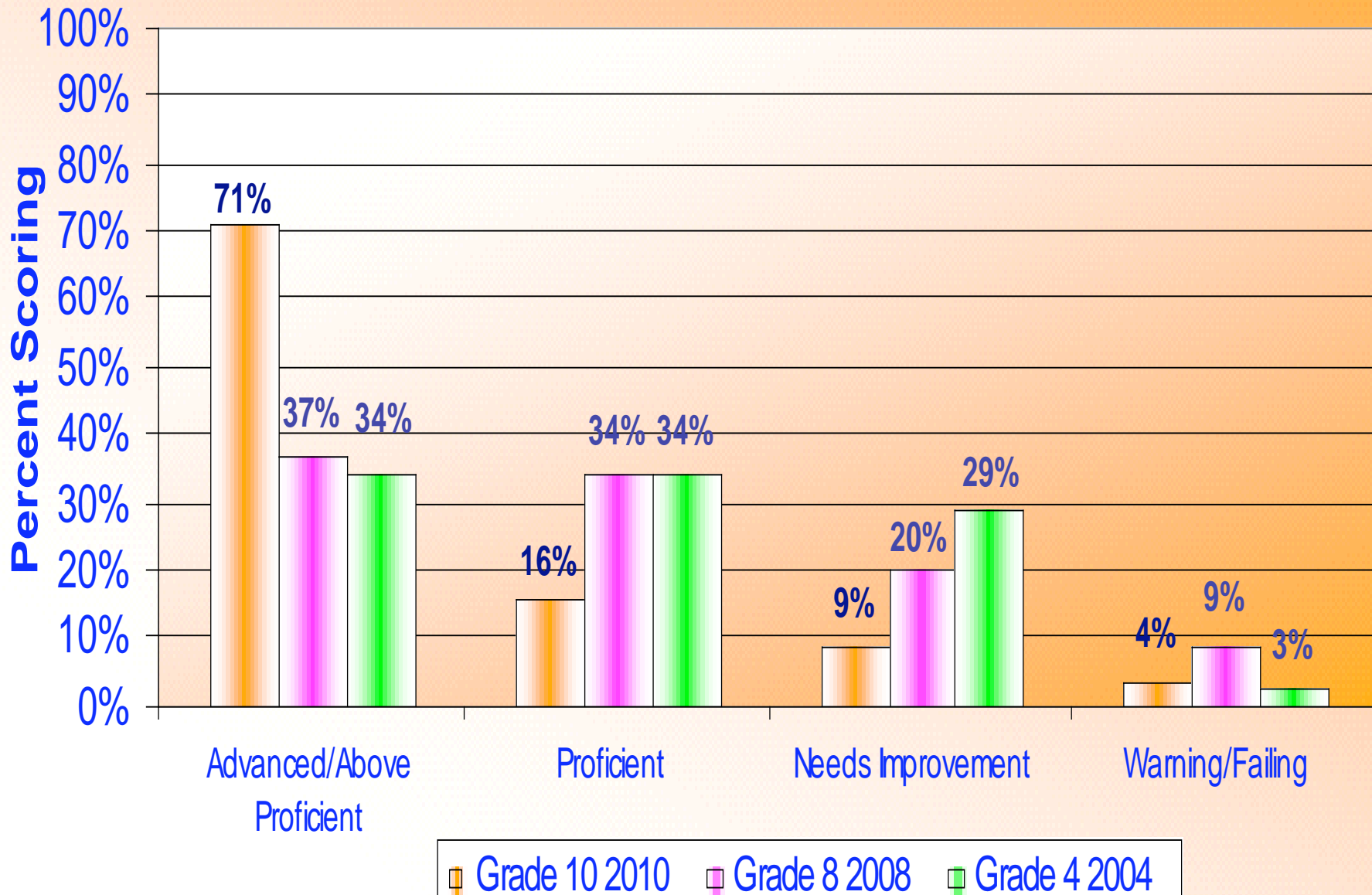
**On average 75% of our students scored
Advanced + Proficient**

2010 Math Proficiency (A+P) Scores

- Stratton is ranked #2 in the state in 5th grade.
- Brackett is ranked #5 in the state in 4th and 5th grades.
- Significant increase in performance in 7th grade.

	<u>2008</u>	<u>2009</u>	<u>2010(APS)</u>	<u>2010(State)</u>
10 th Grade	89%	86%	87%	75%
8 th Grade	71%	70%	69%	51%
7 th Grade	63%	62%	72%	53%
6 th Grade	77%	75%	75%	59%
5 th Grade	79%	79%	77%	55%
4 th Grade	72%	75%	69%	48%
3 rd Grade	78%	81%	80%	65%

Current Grade 11 Cohort: Math MCAS Results Over Time



District Science
2010

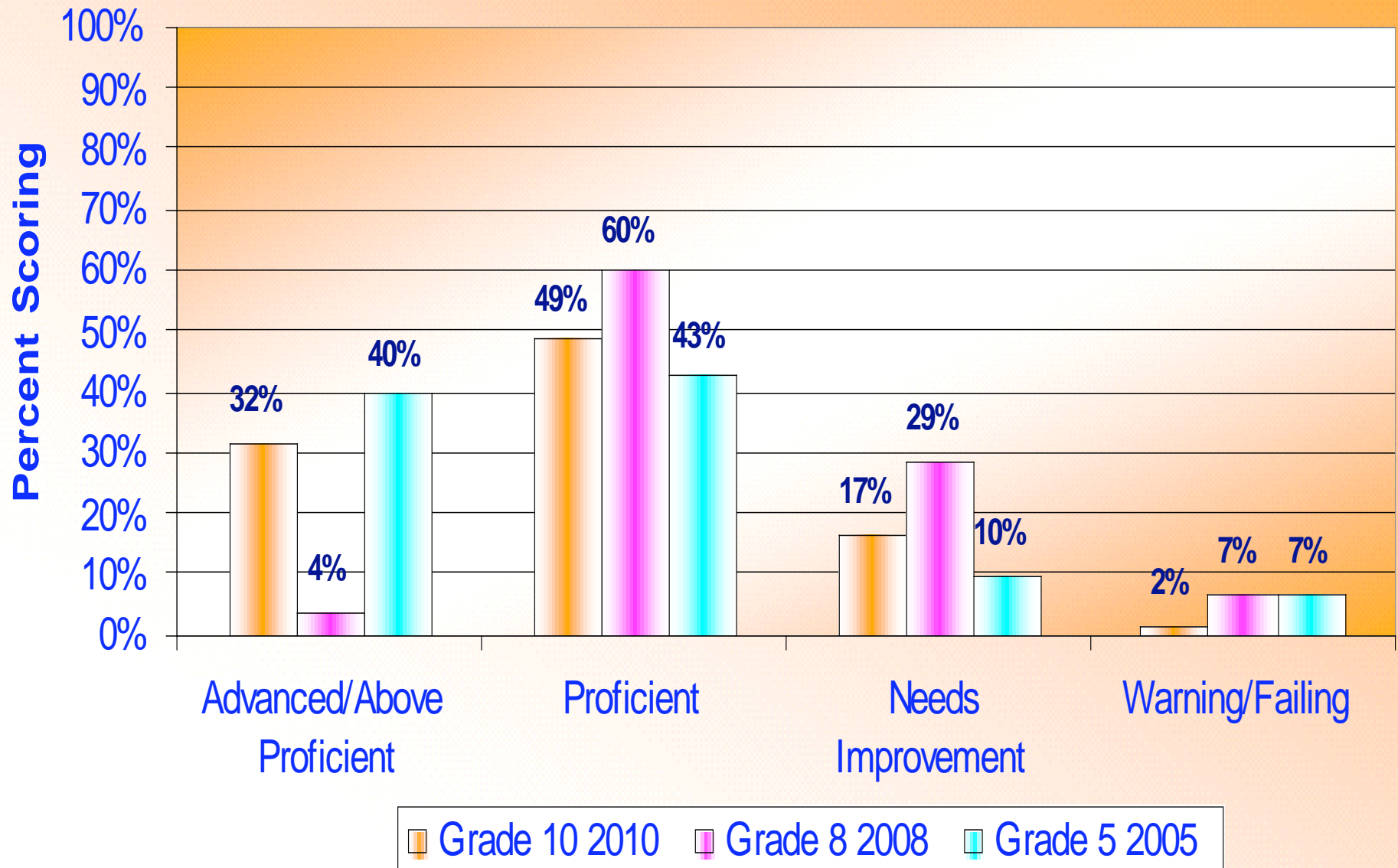
Grade 5 ranked in the top 4% in the state!

2010 Science Proficiency (A+P) Scores

- Brackett is ranked #1 in the state in 5th grade.

	<u>2008</u>	<u>2009</u>	<u>2010(APS)</u>	<u>2010(State)</u>
10th Grade	83%	82%	81%	65%
8th Grade	64%	63%	63%	40%
5th Grade	84%	79%	84%	53%

Current Grade 11 Cohort Science MCAS Results Over Time



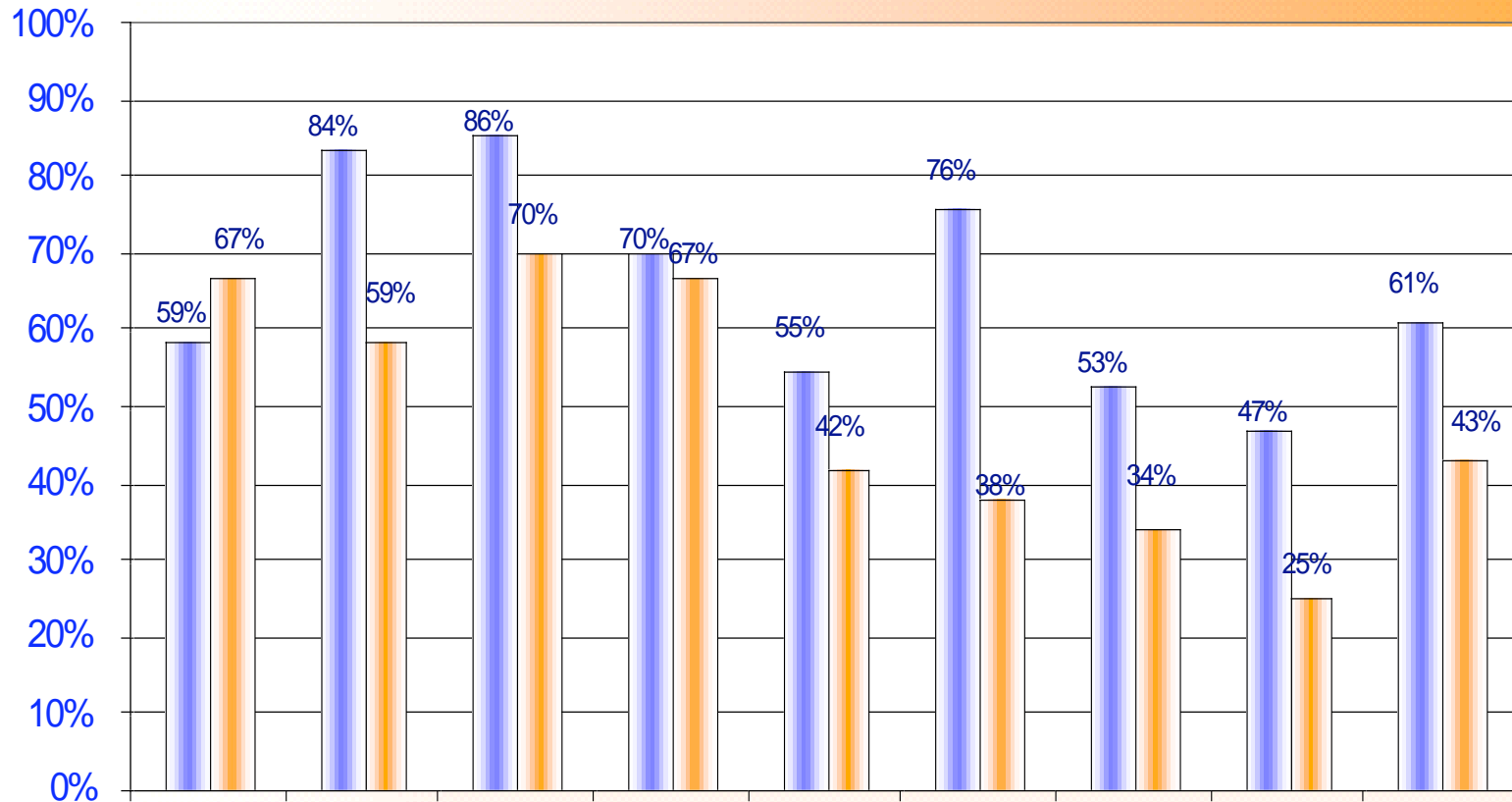
District Subgroups

MCAS 2010

Overall Arlington Subgroups perform well above state averages but still show gaps in achievement as compared with majority peers

MCAS Subgroup: Grade 3 ELA

Percent Scoring Advanced + Proficient

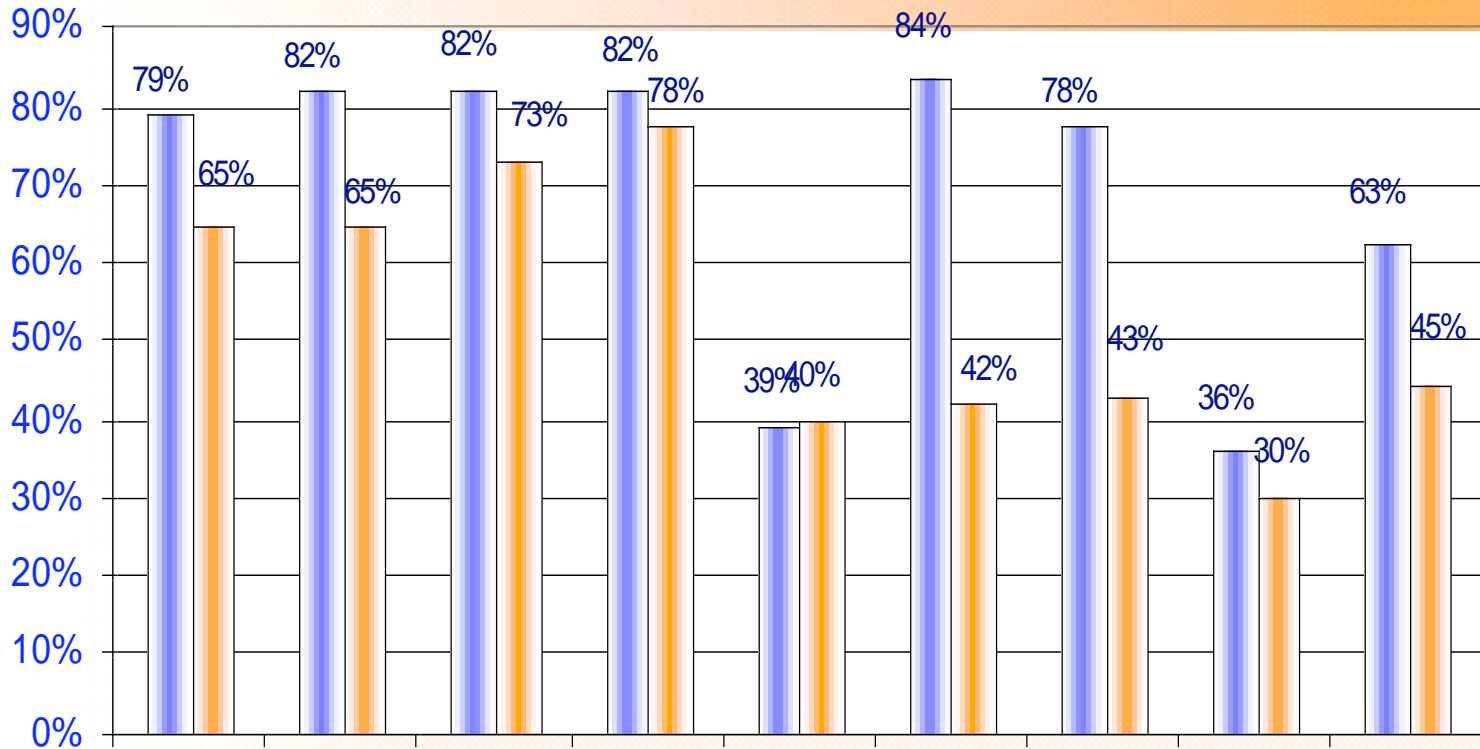


Subgroups

■ District % ■ State %

MCAS Subgroup: Grade 3 Math

Percent Scoring Advanced + Proficient

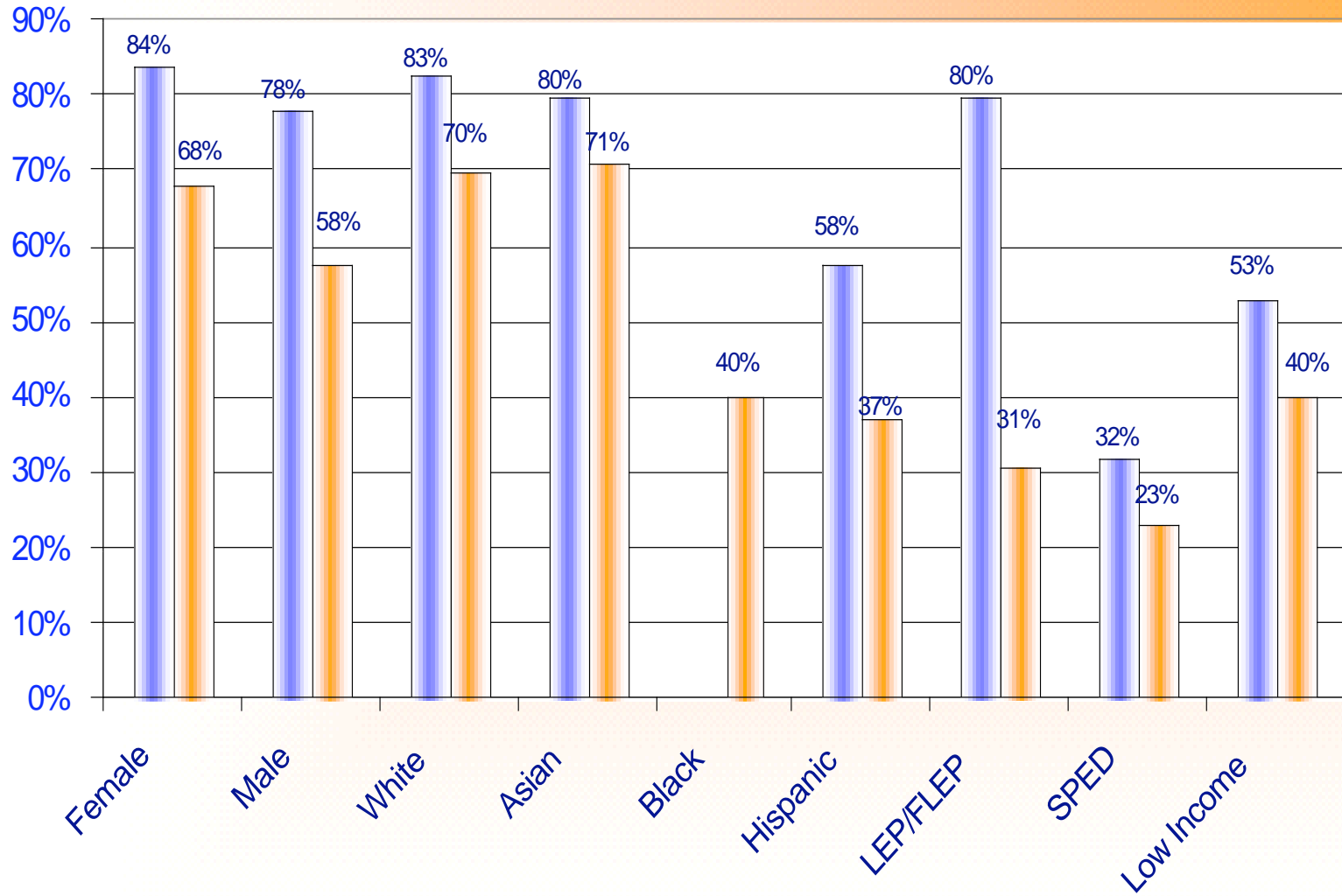


Subgroups

District % State %

MCAS Subgroup: Grade 5 ELA

Percent Scoring Advanced + Proficient

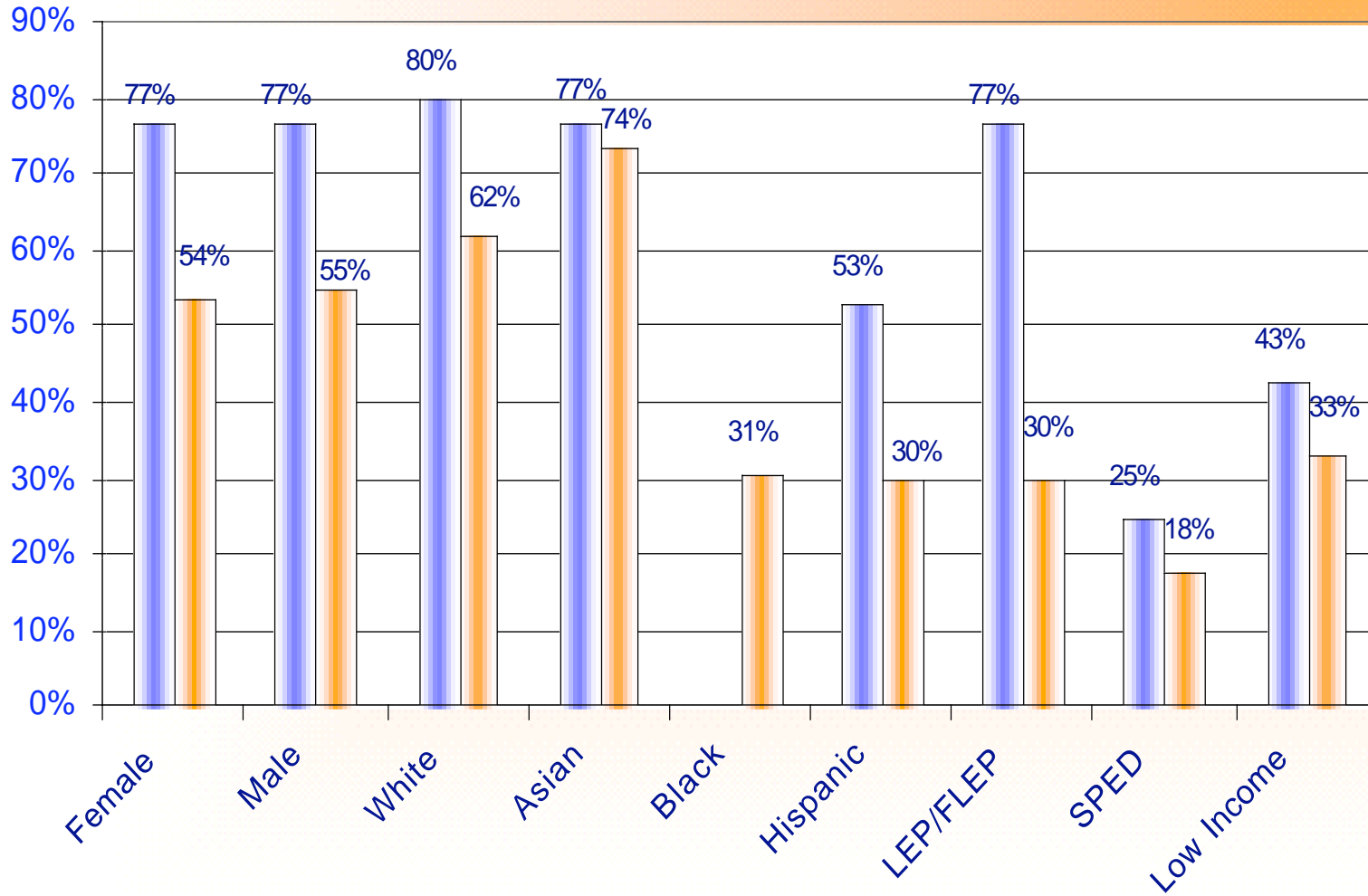


Subgroups- not enough district data for Black

■ District % ■ State %

MCAS Subgroup: Grade 5 Math

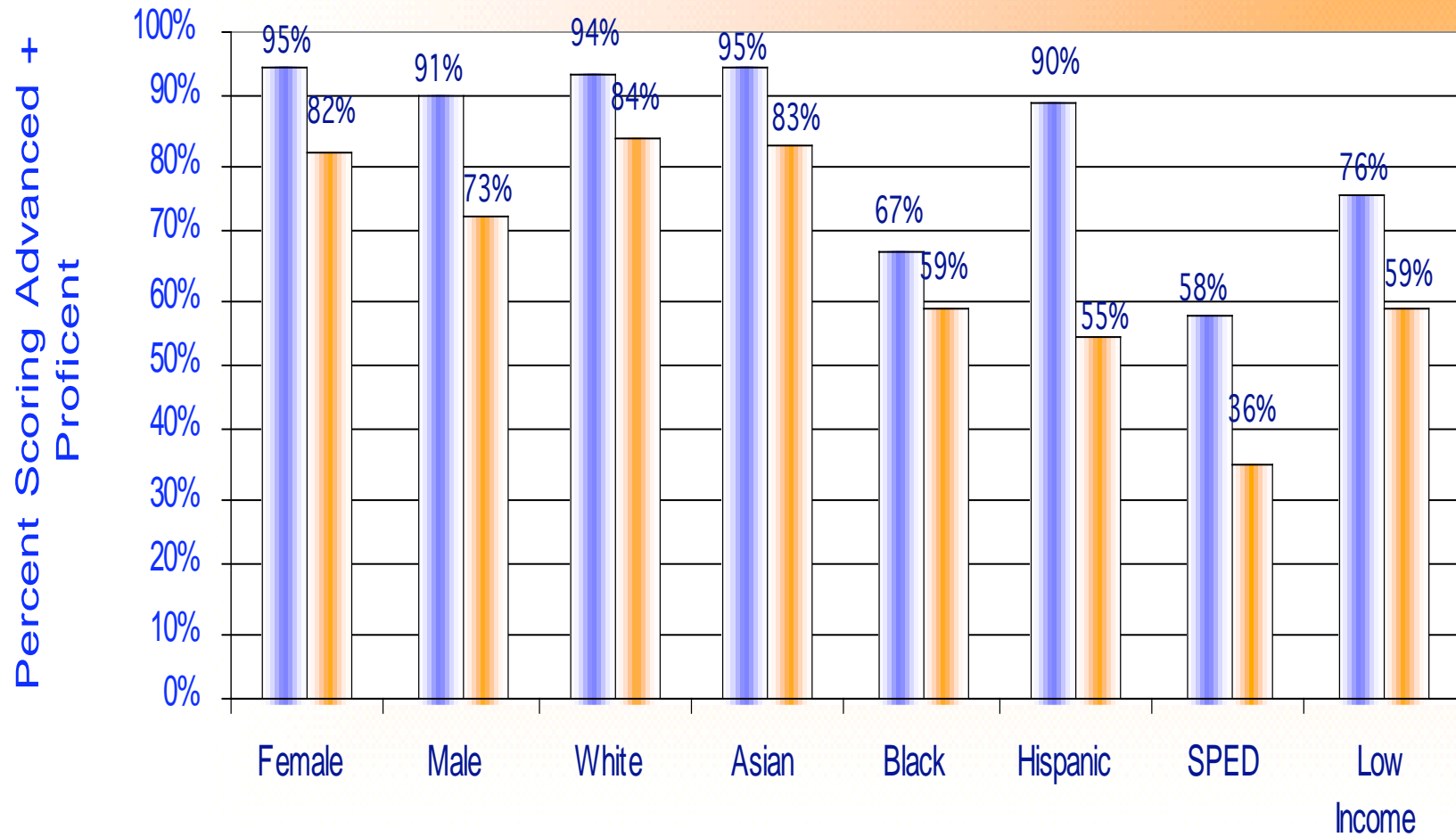
Percent Scoring Advanced + Proficient



Subgroups-Not enough district data for Black

■ District % ■ State %

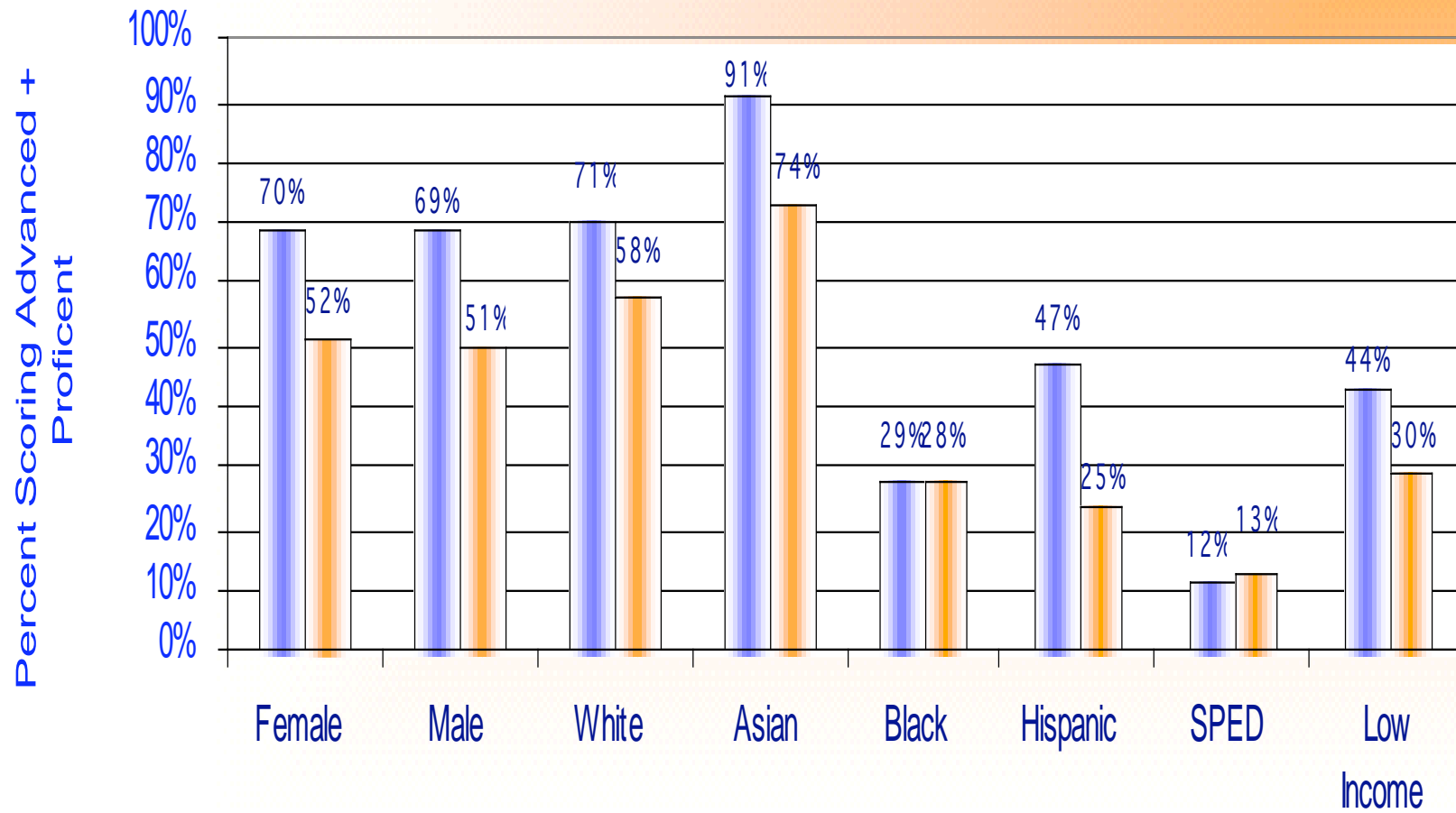
MCAS Subgroup: Grade 8 ELA



Subgroups-Not enough district data for LEP/FLEP

■ District % ■ State %

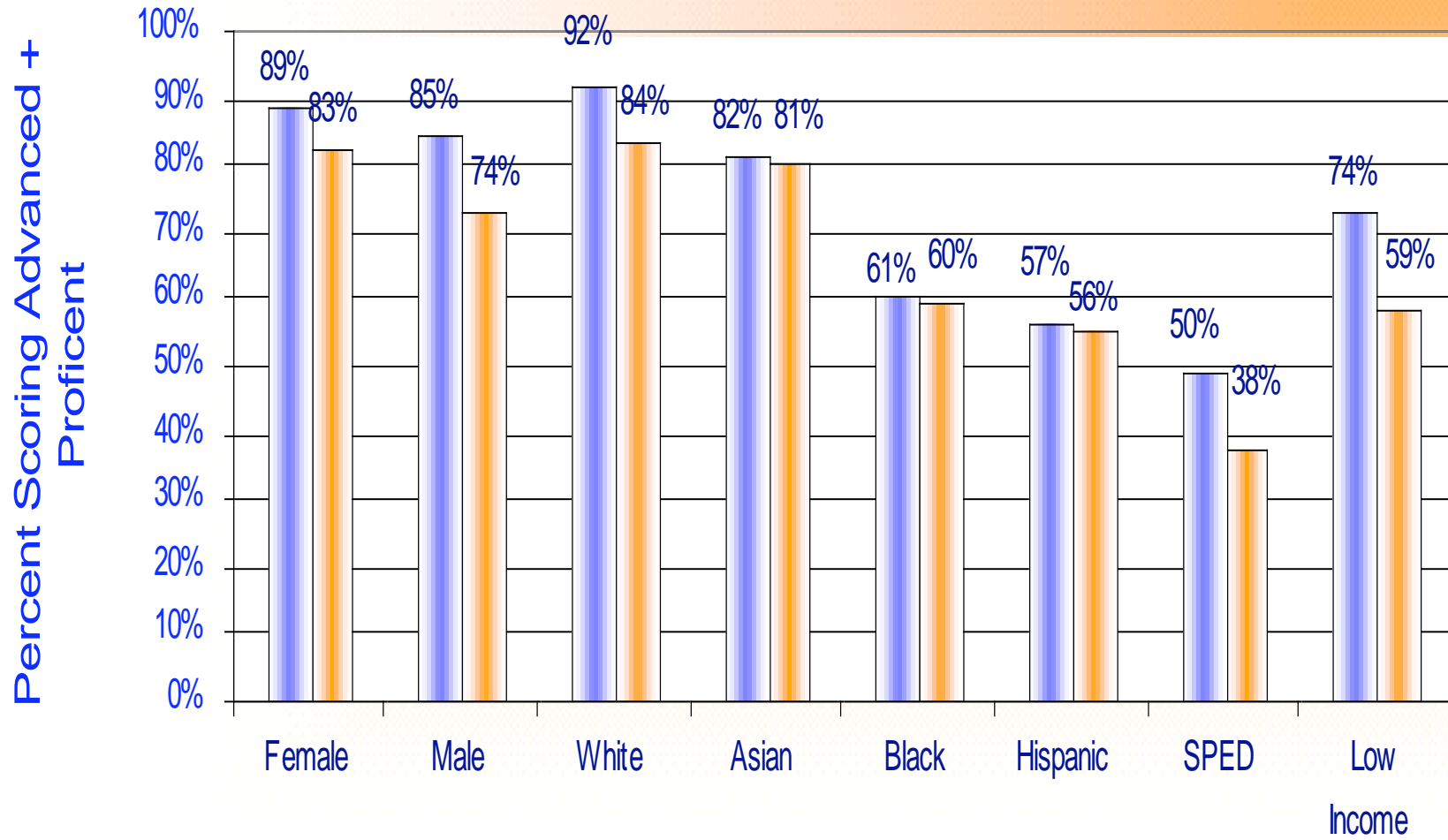
MCAS Subgroup: Grade 8 Math



Subgroups-Not enough district data for LEP/FLEP

■ District % ■ State %

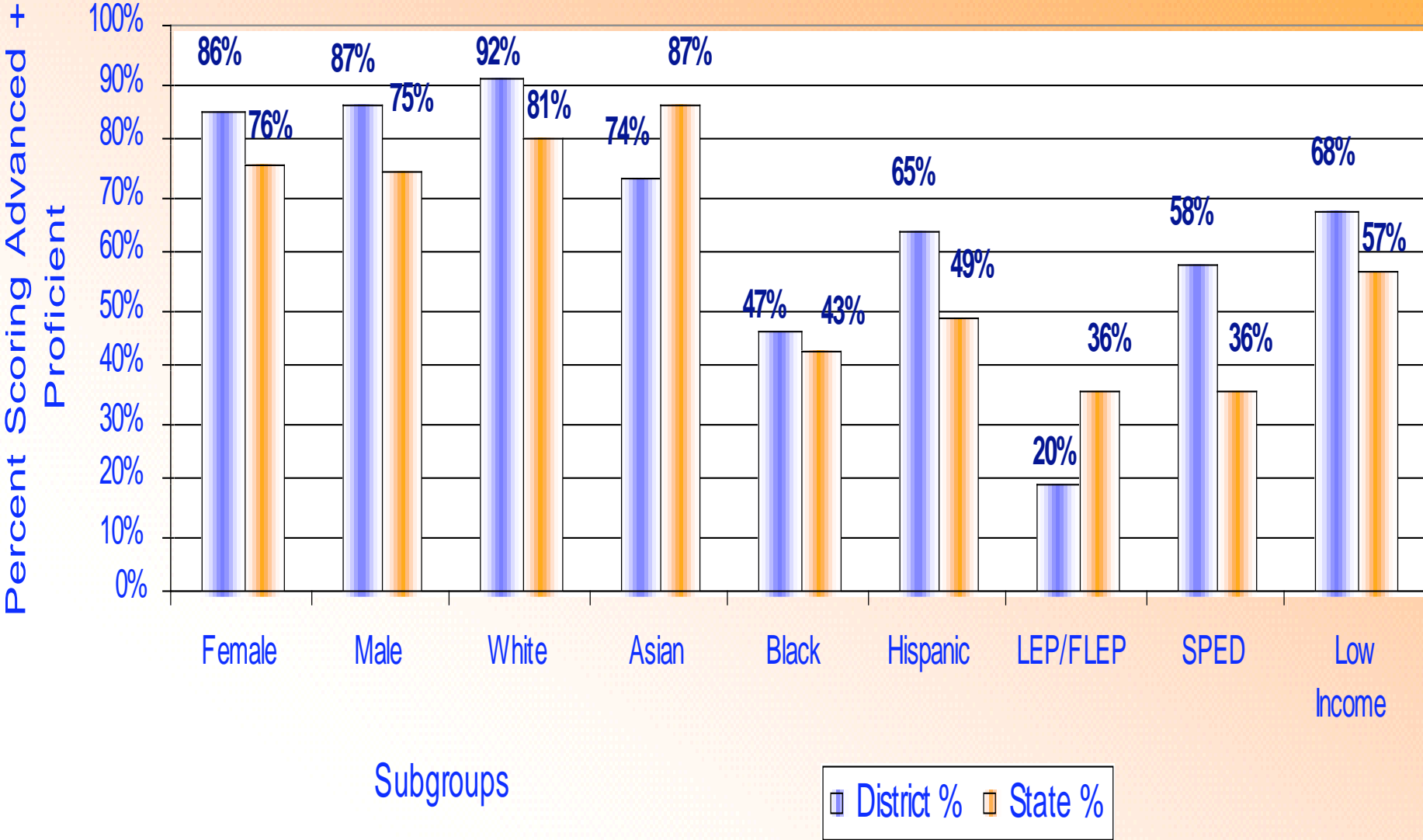
MCAS Subgroup: Grade 10 ELA



Subgroups-Not enough district data for LEP/FLEP

■ District % ■ State %

MCAS Subgroup: Grade 10 Math



2010 Subgroup Summary

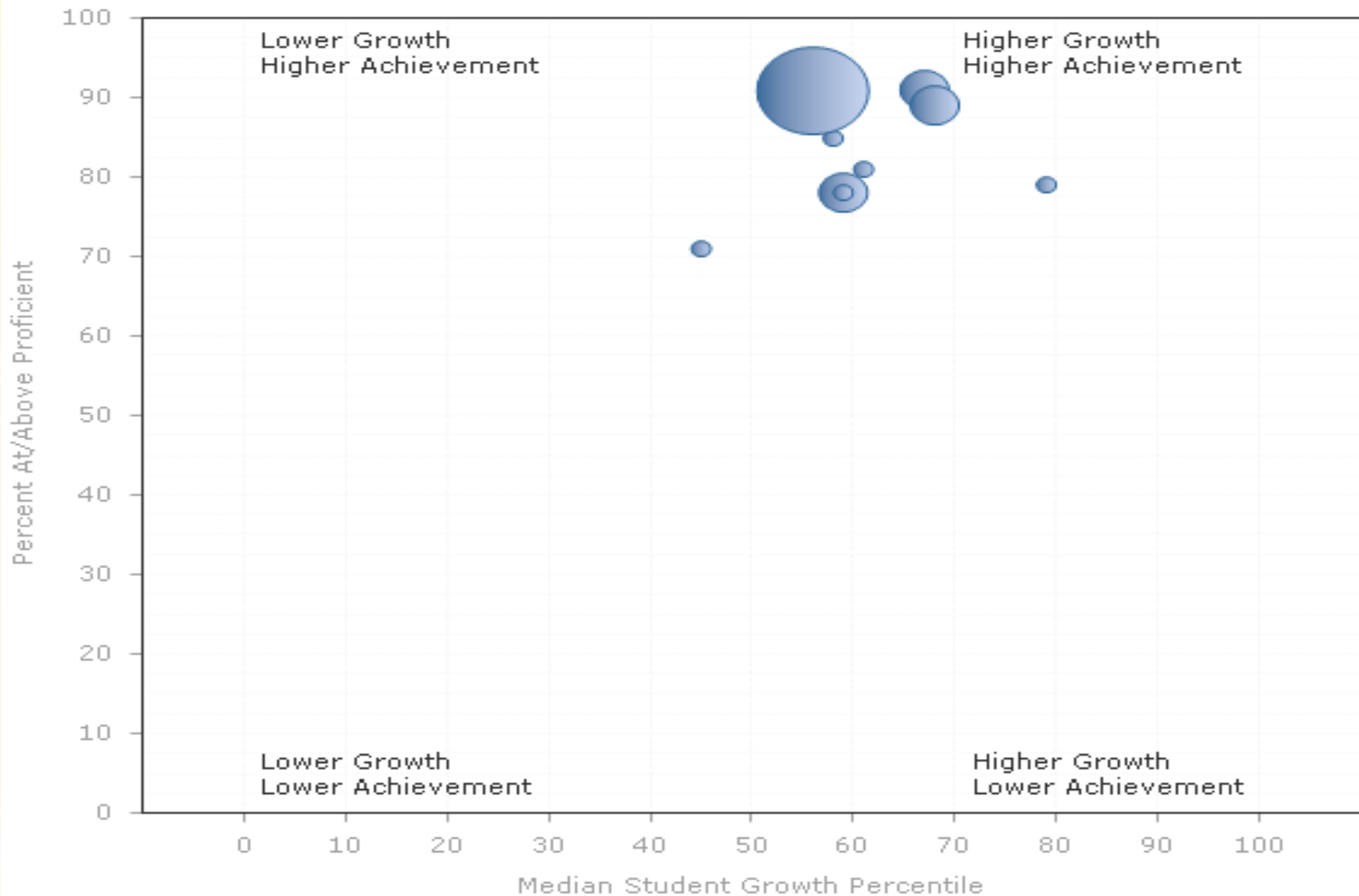
Keeping pace with majority peers:

- Black students in Gr. 6 ELA
- Hispanic students in Gr. 3 Math
- Hispanic students in Gr. 6 ELA
- Hispanic students in Gr. 8 ELA
- ELLs in Gr. 5 ELA and Math
- Students with disabilities and low income students improve steadily over time from Gr.5-10

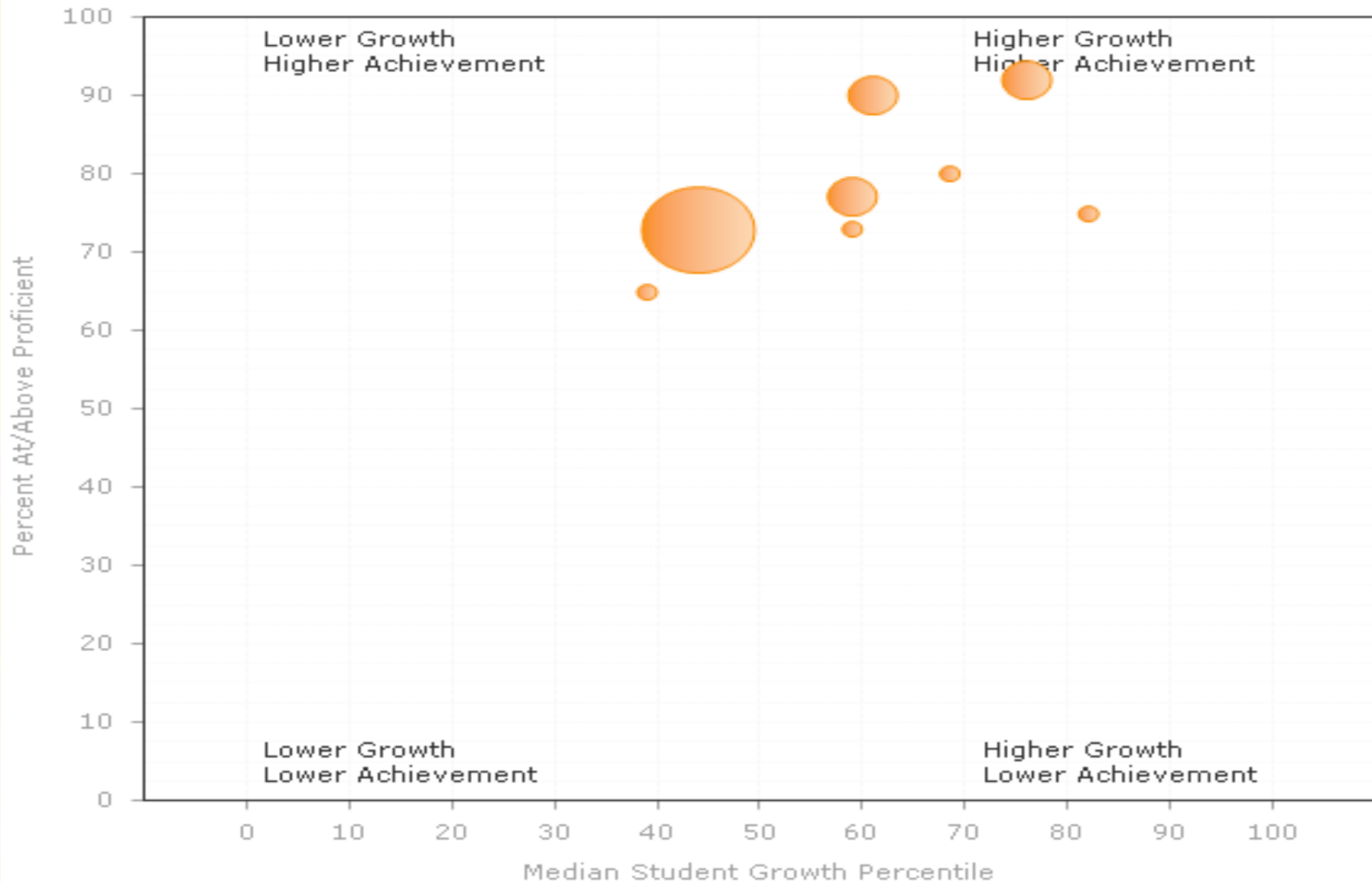
Student Growth
MCAS 2010

**Moderate to very high growth is evident
at all grade levels**

Growth Data: ELA All Grades



Growth Data: Math All Grades



State Commendations for High MCAS Growth in 2010

- Arlington High School
- Brackett School
- Peirce School
- Stratton School

Summary Points

- **Areas of Overall Improvement:**
 - Gr. 6 & 8 ELA achievement
 - Student growth in ELA
 - Gr. 7 Math
 - Gr. 5 Science
 - ELL and Low Income subgroup performance
- **Areas in Need of Improvement:**
 - Middle school science
 - Gr. 4 ELA –Writing: topic development
 - District Math achievement
 - Achievement gaps in ELA & Math for students with disabilities and Math for Black and Hispanic students

Next Steps: ELA

- Increase progress monitoring & reading intervention for all Warning, Needs Improvement, and SLC students in Gr. 3-6
- Expand teaching and assessing Open Response questions (Elementary and OMS)
- Begin implementing Lucy Calkins writing program in grade 3 to address topic development weakness
- Implement Wilson program, *Just Words*, in grades 4-6 to improve spelling and decoding skills

Next Steps: Math

- Continue building content expertise for new teachers, ELL and special educators
- Expand early intervention, *Assessing Math Concepts (Number Sense)* (Kathy Richardson) to grade 2
- Expand math coaching & tutoring for low performing students in Title 1 schools & OMS
- Continue use of bilingual math glossaries for ELL students

Next Steps: Science

MS Science is a concern for Arlington as well as other districts across the state.

- Continue to examine curriculum and frameworks alignment in middle school
- Continue MCAS item analysis for development of remedial support for all students
- Monitor specific students in sub-groups
- Encourage more rigorous course selection for subgroup students

Next Steps: Subgroups

- Deeper analysis of subgroup achievement data, attendance, and grades
- Continue to expand content expertise of special educators at all levels
 - ✓ 100 % participation of elementary special educators in reading & math mentoring program (5 days)
 - ✓ Arrange meeting schedules for special educators to participate in CLTs
- Expand options for content inclusion at all levels, including Peirce co-taught program
- Ensure all eligible students take the MCAS Alternative Assessment

College Readiness for All Students Requires.....

- Ongoing **collaboration** among special educators, ELL, METCO, support personnel, administrators, department chairs and classroom teachers to share expertise and knowledge
- **High expectations for all students** coupled with appropriate interventions, supports and approaches to ensure success