

*Massachusetts Comprehensive
Assessment System (MCAS)*

*Arlington Public Schools
MCAS Analysis
2015*

Presented by: Dr. Laura Chesson, Assistant Superintendent

Agenda

- ELA Results: District and Grade-Level
- Math Results: District and Grade-Level
- Science Results: District and Grade Level
- Plans for the 2015 - 2016 School Year

Student Growth Percentile By Grade

Median SGP for ELA and Math by Grade

	ELA	Math
Grade 4*	59	59
Grade 5*	58	55
Grade 6	59	49.5
Grade 7	53.5	54
Grade 8	68	65.5
Grade 10	48.5	50

* District median

Elementary SGP By

School	Grade 4		Grade 5	
	ELA	Math	ELA	Math
Bishop	48	64.5	56	55
Brackett	69	79	44.5	42.0
Dallin	54	53	58.5	62.5
Hardy	58	38	61.5	54.5
Peirce	59	79	64	59.5
Stratton	57	54	58	41
Thompson	82.5	38	31.5	59
Median	59	59	58	55

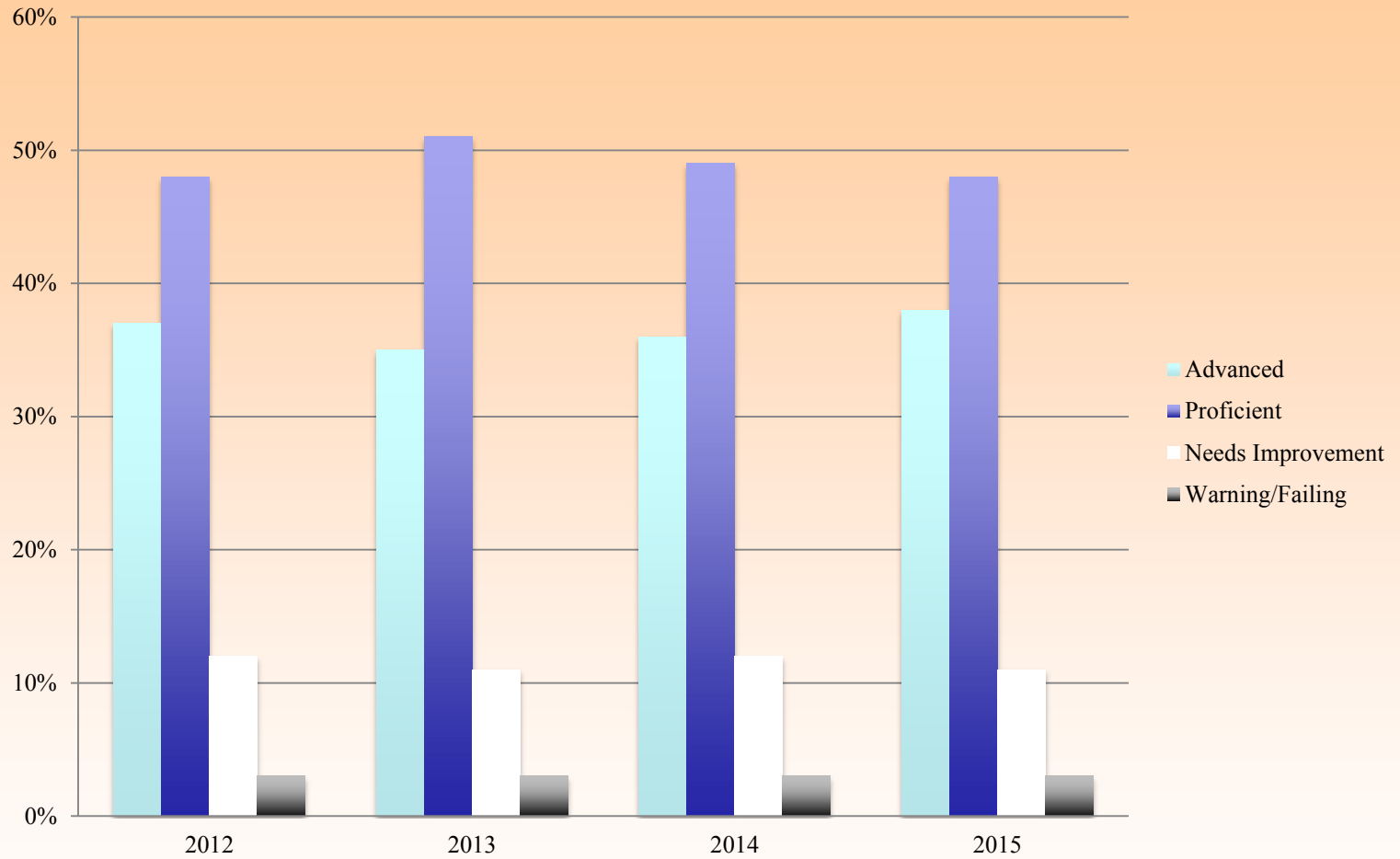
2015 District ELA

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Overall District Performance - ELA

	2012		2013		2014		2015	
	District	State	District	State	District	State	District	State
A & P	85%	69%	86%	69%	85%	70%	86%	
CPI	94.5	86.7	94.9	86.8	94.2	86.7	94.5	
Median SGP	54.0	50.0	56.0	51.0	56.0	50.0	58	

District ELA Performance Over Time



Students Scoring Advanced District vs. State

	Gr. 3			Gr. 4*			Gr. 5		
	District	State	Diff. with State	District	State	Diff. with State	District	State	Diff. with State
2006	35%	18%	17%	19%	8%	11%	30%	15%	15%
2007	26%	14%	12%	24%	10%	14%	31%	15%	16%
2008	37%	15%	22%	18%	8%	10%	30%	13%	17%
2009	27%	12%	15%	31%	11%	20%	37%	15%	22%
2010	29%	14%	15%	33%	11%	22%	43%	16%	27%
2011	22%	11%	11%	20%	10%	10%	40%	17%	23%
2012	31%	15%	16%	26%	13%	13%	34%	17%	17%
2013	26%	12%	14%	23%	10%	13%	41%	18%	23%
2014	27%	12%	15%	32%	13%	19%	33%	18%	15%
2105	23%	11%	12%	37%	19%	18%	42%	23%	19%
Avg.			15%			15%			19%

Students Scoring Advanced District vs. State

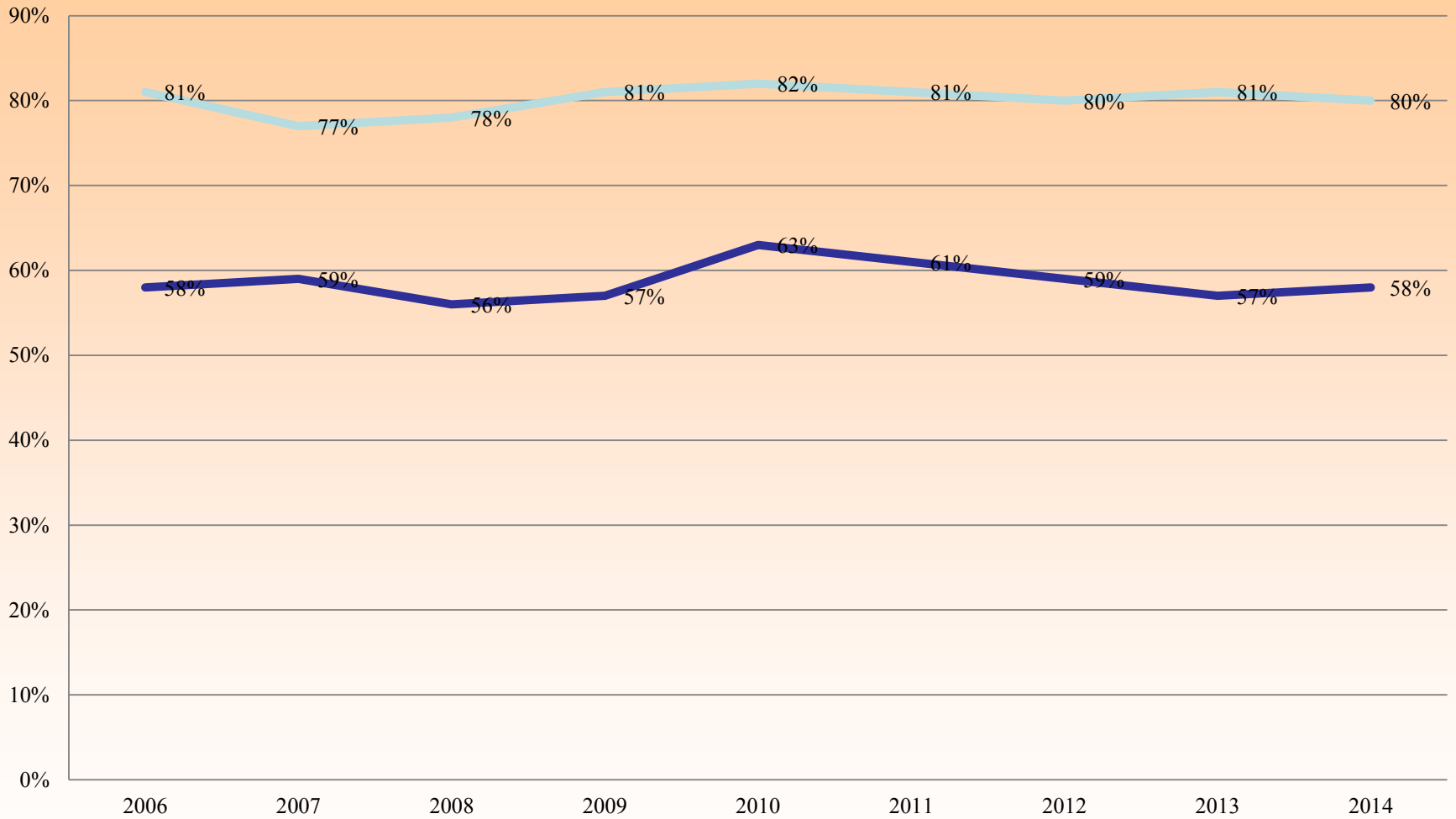
	Gr. 6			Gr. 7*			Gr. 8		
	District	State	Diff. with State	District	State	Diff. with State	District	State	Diff. with State
206	20%	10%	10%	10%	10%	0%	23%	12%	11%
2007	21%	9%	12%	16%	9%	7%	29%	12%	17%
2008	32%	15%	17%	24%	12%	12%	23%	12%	11%
2009	31%	16%	15%	25%	14%	11%	35%	15%	20%
2010	30%	15%	15%	23%	11%	12%	42%	17%	25%
2011	39%	17%	22%	36%	14%	22%	45%	20%	25%
2012	40%	18%	22%	37%	15%	22%	38%	18%	20%
2013	28%	16%	12%	22%	12%	10%	46%	20%	26%
2014	29%	16%	13%	30%	11%	19%	37%	14%	23%
2015	38%	19%	19%	22%	9%	13%	55%	26%	29%
Average			16%			13%			21%

Students Scoring Advanced District vs. State

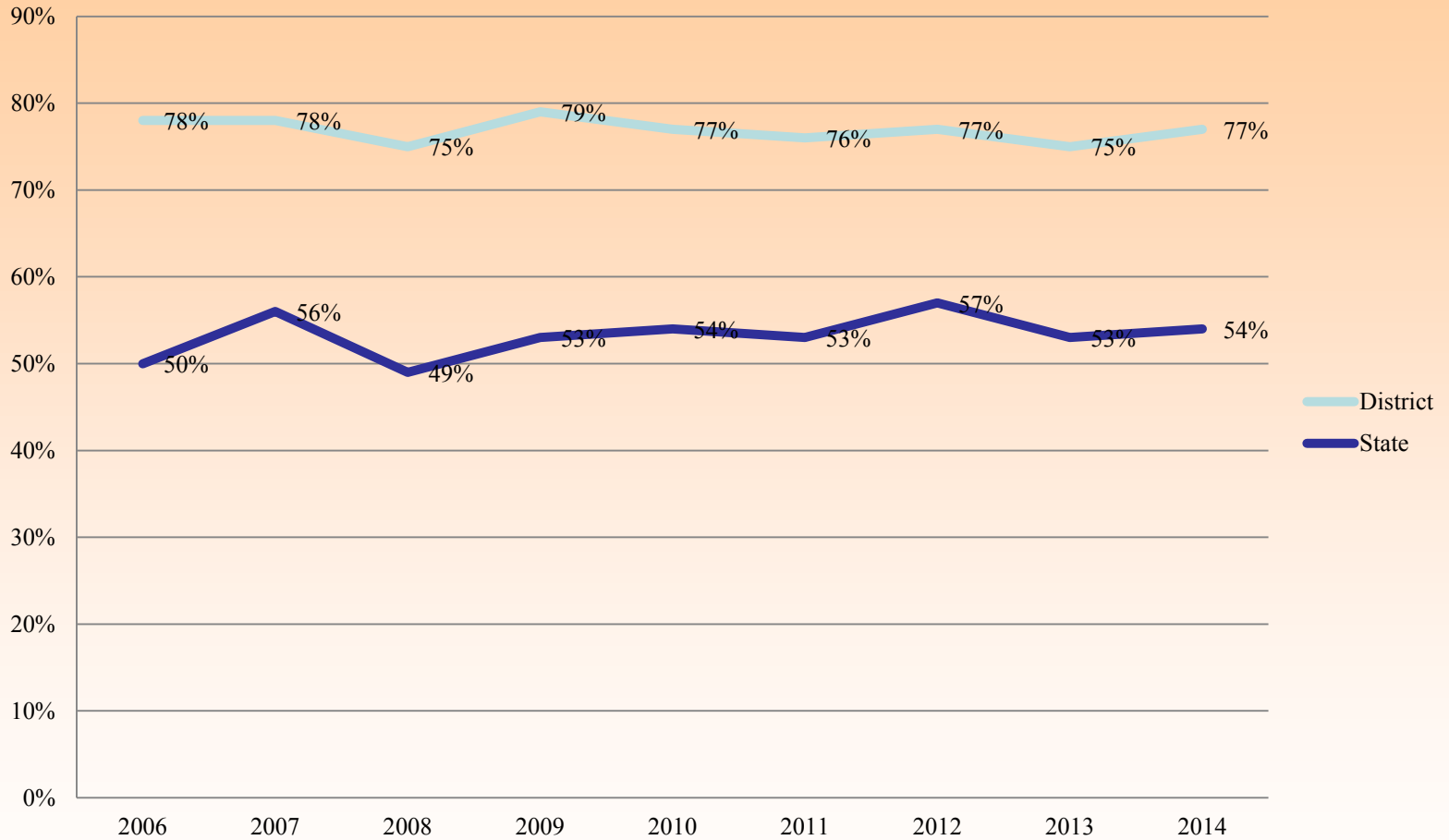
	Gr. 10*		
	District	State	Diff. with State
2006	39%	16%	23%
2007	41%	22%	19%
2008	48%	23%	25%
2009	54%	29%	25%
2010	53%	26%	27%
2011	62%	33%	29%
2012	65%	37%	28%
2013	68%	45%	23%
2014	72%	41%	31%
2015	75%	49%	26%
Average			26%

ELA Performance By Grade Level

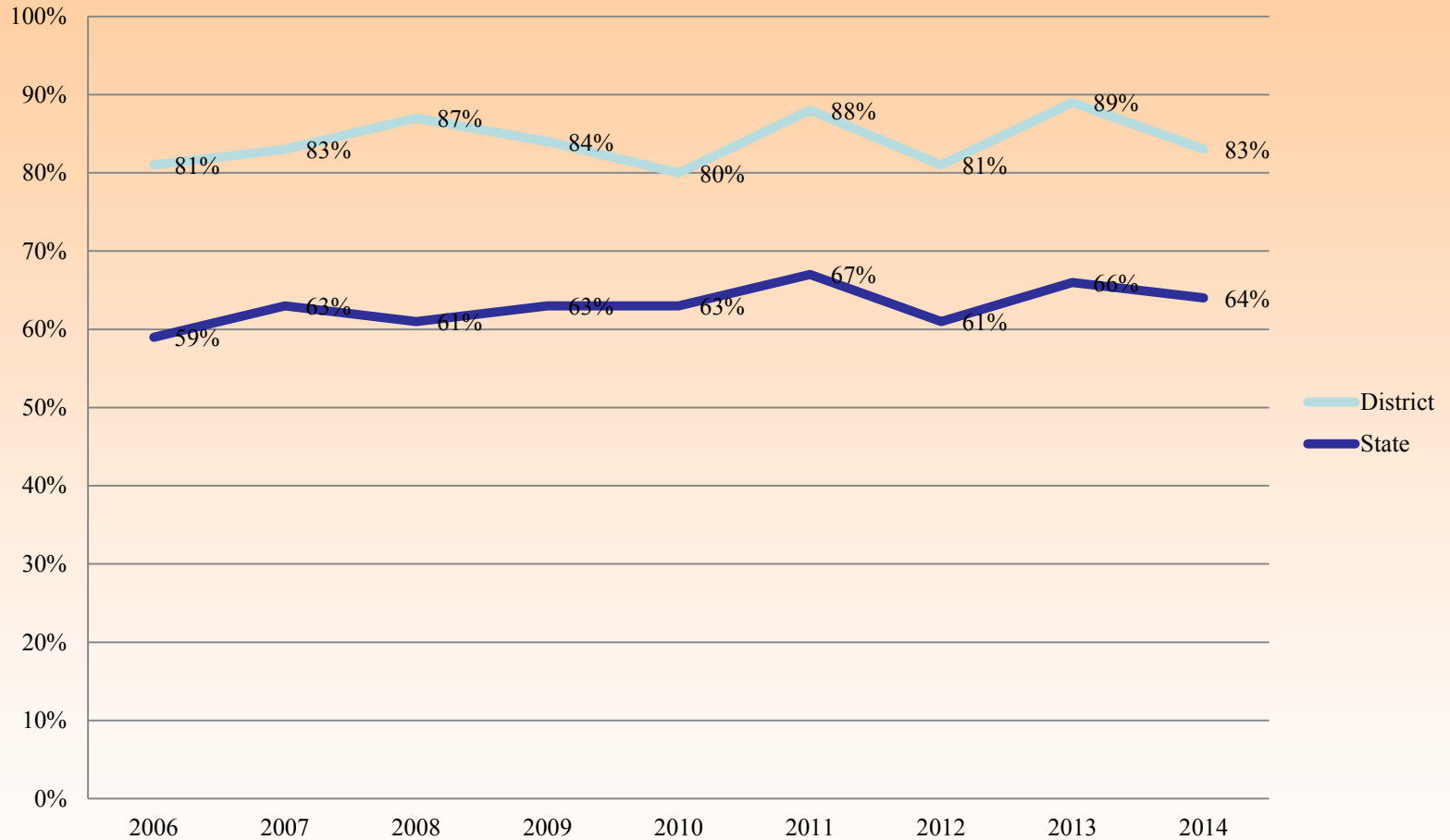
District vs. State ELA Grade 3 Percent Proficient & Advanced



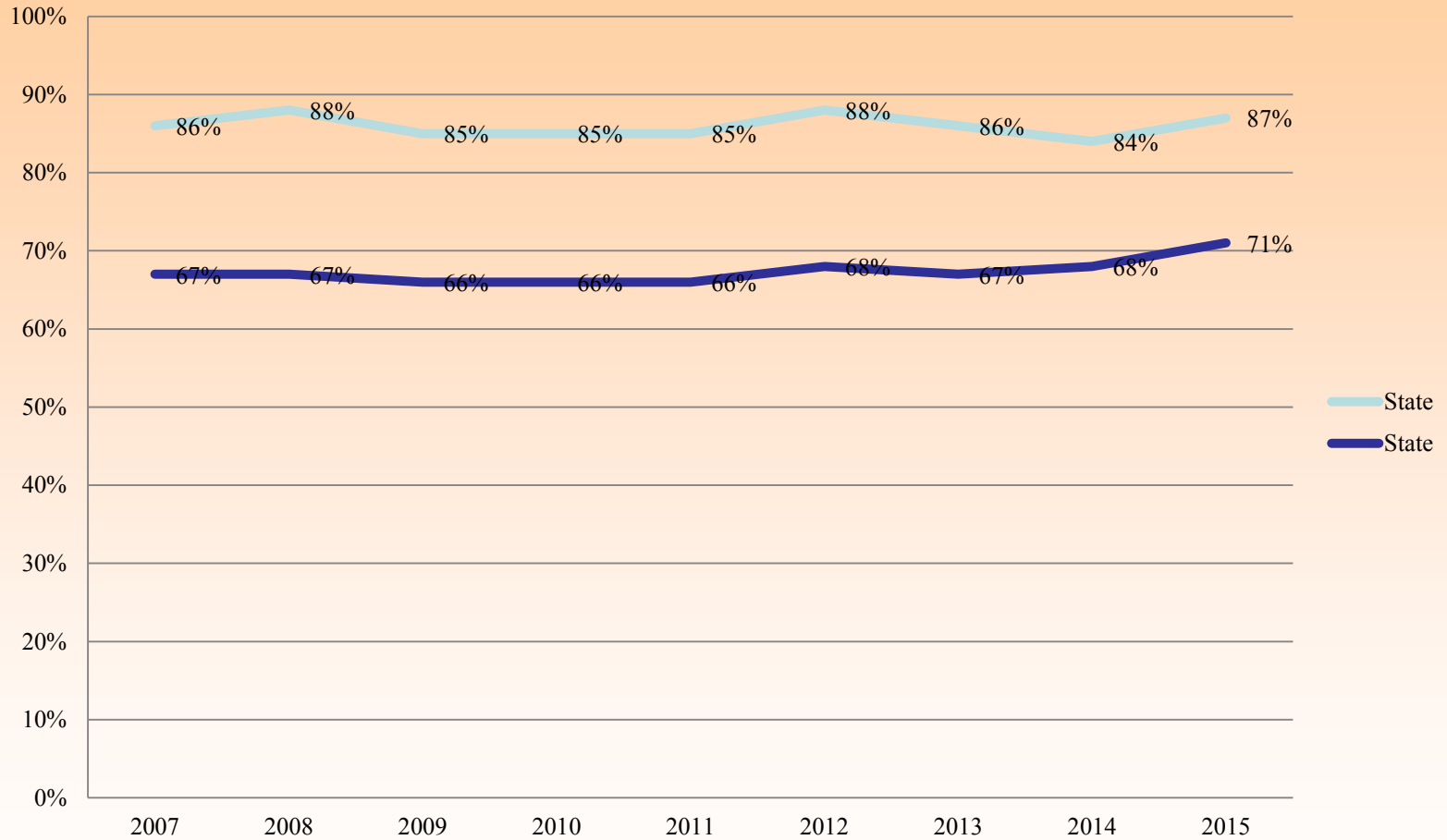
District vs. State ELA Grade 4 Percent Proficient & Advanced



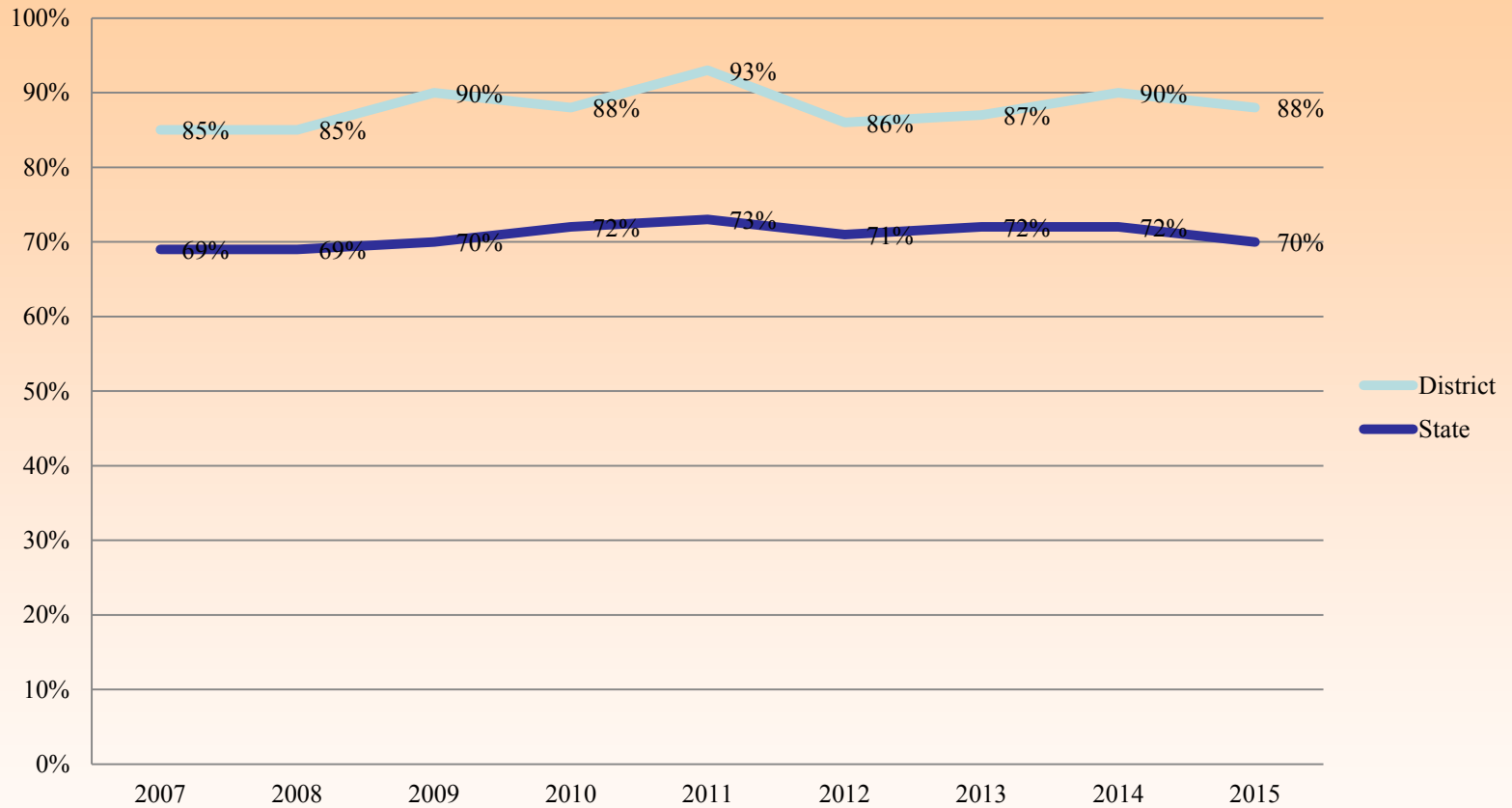
District vs. State ELA Grade 5 Percent Proficient & Advanced



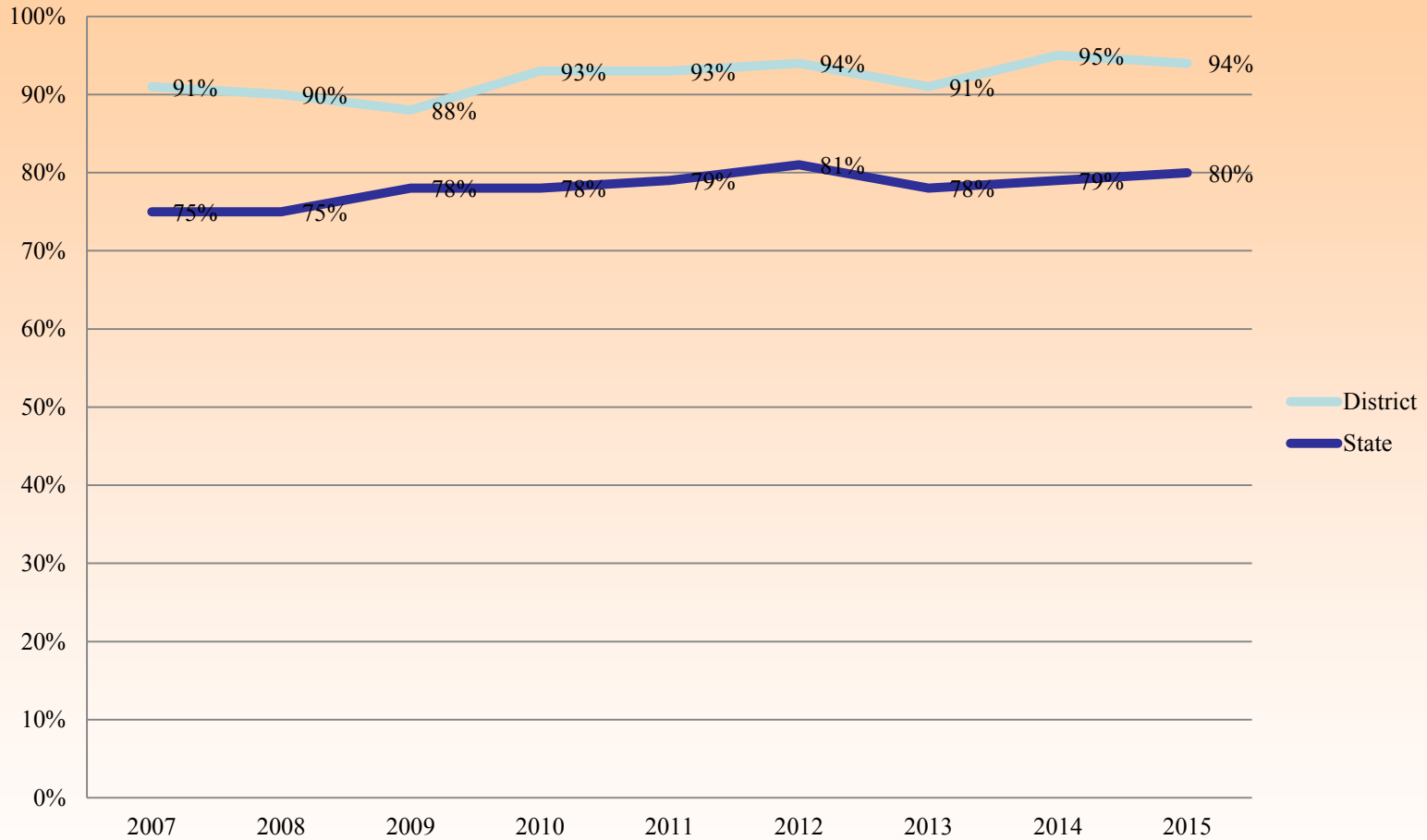
District vs. State ELA Grade 6 Percent Proficient & Advanced



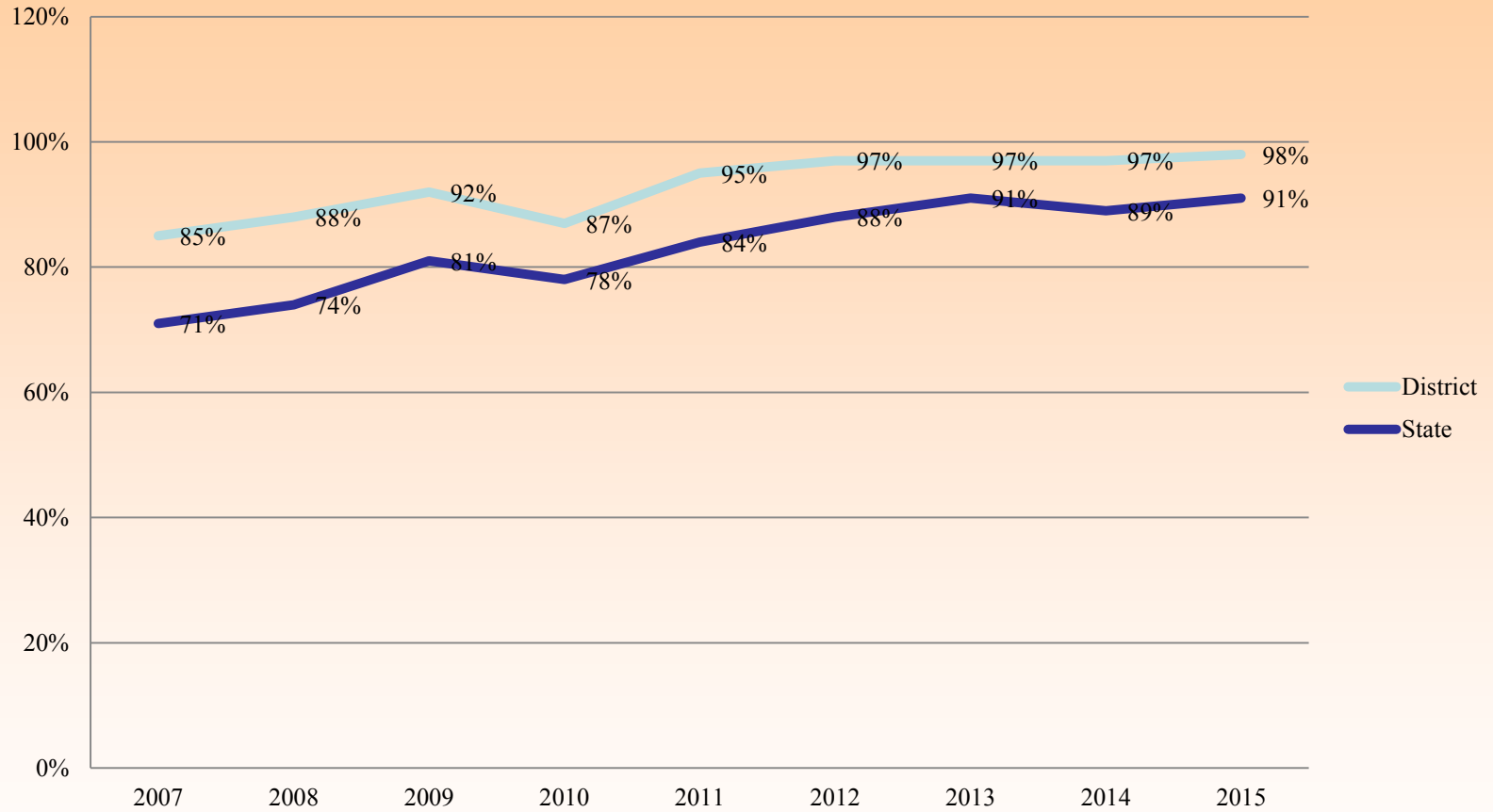
District vs. State ELA Grade 7 Percent Proficient & Advanced



District vs. State ELA Grade 8 Percent Proficient & Advanced



District vs. State ELA Grade 10 Percent Proficient & Advanced



ELA Growth By Grade Level

APS Reading/ELA

Percentage of Student Scoring Advanced

	Gr. 3		Gr. 4*		Gr. 5		Gr. 6		Gr. 7*		Gr. 8		Gr. 10*	
	District	State	District	State	District	State	District	State	District	State	District	State	District	State
2006	35%	18%	19%	8%	30%	15%	20%	10%	10%	10%	23%	12%	39%	16%
2007	26%	14%	24%	10%	31%	15%	21%	9%	16%	9%	29%	12%	41%	22%
2008	37%	15%	18%	8%	30%	13%	32%	15%	24%	12%	23%	12%	48%	23%
2009	27%	12%	31%	11%	37%	15%	31%	16%	25%	14%	35%	15%	54%	29%
2010	29%	14%	33%	11%	43%	16%	30%	15%	23%	11%	42%	17%	53%	26%
2011	22%	11%	20%	10%	40%	17%	39%	17%	36%	14%	45%	20%	62%	33%
2012	31%	15%	26%	13%	34%	17%	40%	18%	37%	15%	38%	18%	65%	37%
2013	26%	12%	23%	10%	41%	18%	28%	16%	22%	12%	46%	20%	68%	45%
2014	27%	12%	32%	13%	33%	18%	29%	16%	30%	11%	37%	14%	72%	41%
2015	23%	11%	37%	19%	42%	23%	38%	19%	22%	9%	55%	26%	75%	49%

ELA Analysis

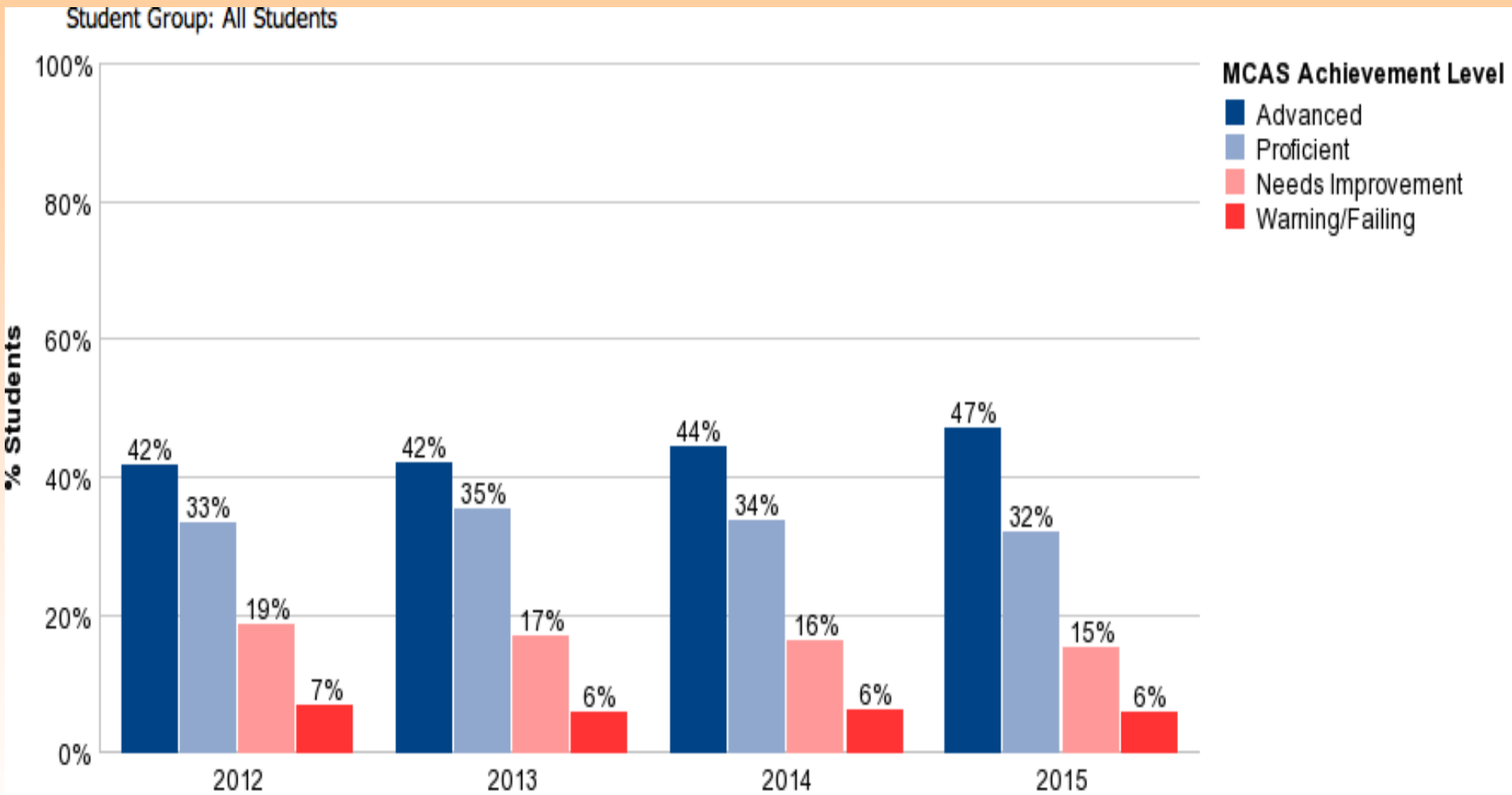
- At elementary level more clearly articulating reading units for specific grade levels.
- Lab program/writing lead teacher PD beginning to have effect.
- Middle school Lucy Calkins training beginning to have impact.

District Mathematics
2015

Overall District Performance - MATH

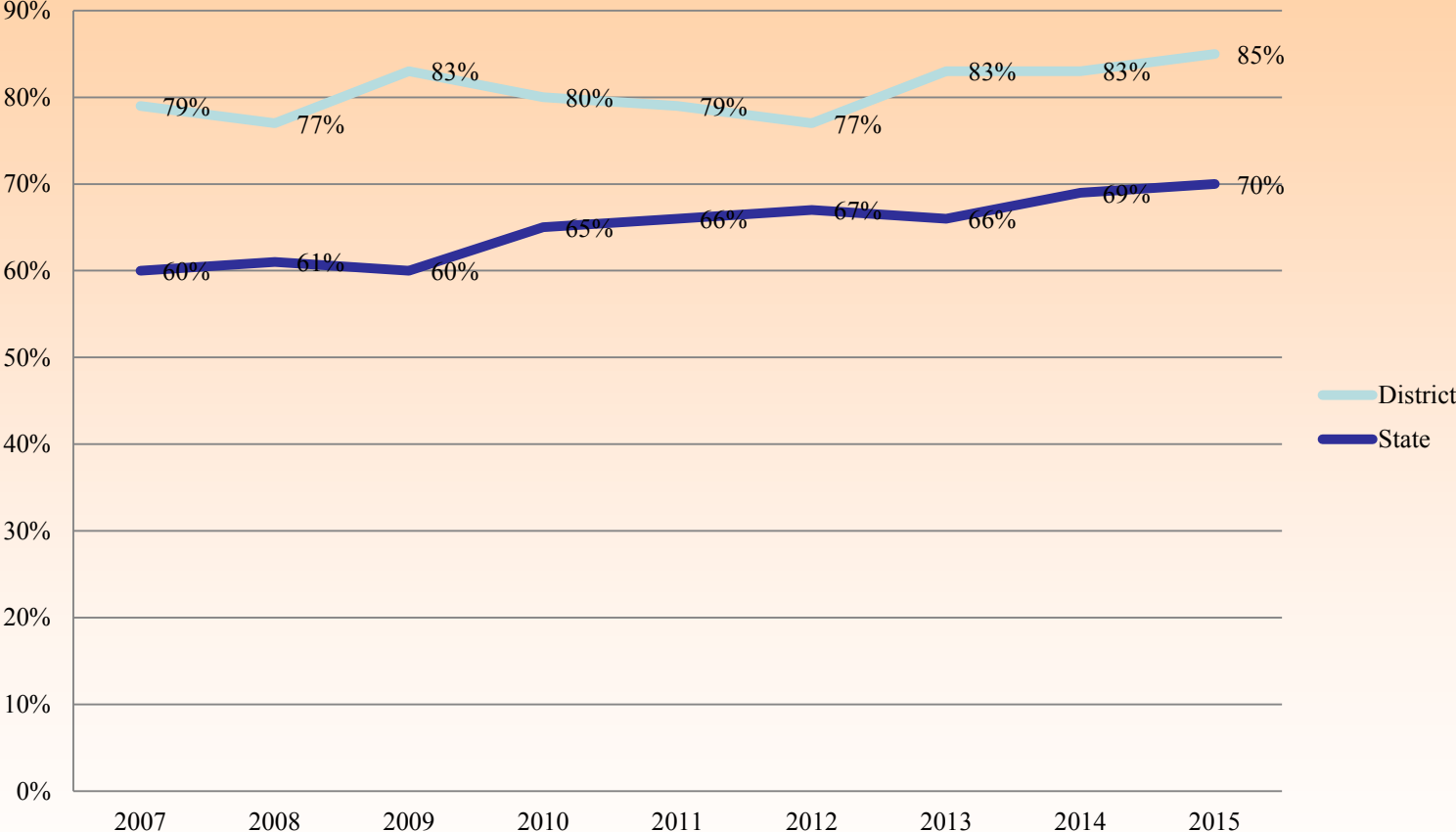
	2011		2012		2013		2014		2015	
	District	State	District	State	District	State	District	State	District	State
A & P	74%	58%	75%	59%	77%	61%	78%	60%	79%	
CPI	89.2	79.9	89.4	79.9	90.4	80.8	90.5	80.3	90.7	
Median SGP	49.0	50.0	57.0	50.0	54.0	51.0	58.0	50.0	56.0	

Math MCAS Over Time

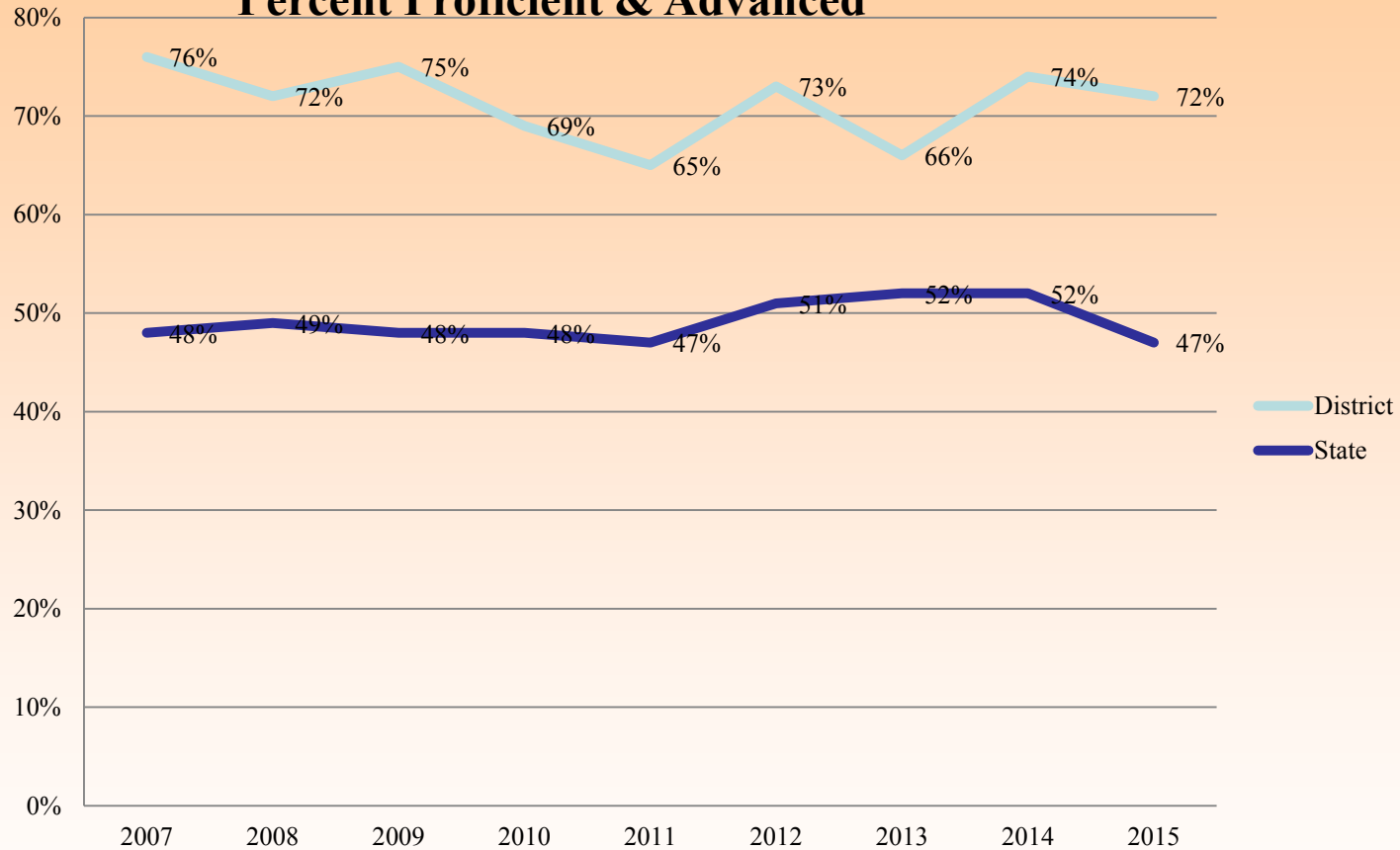


Math MCAS Results By Grade Level

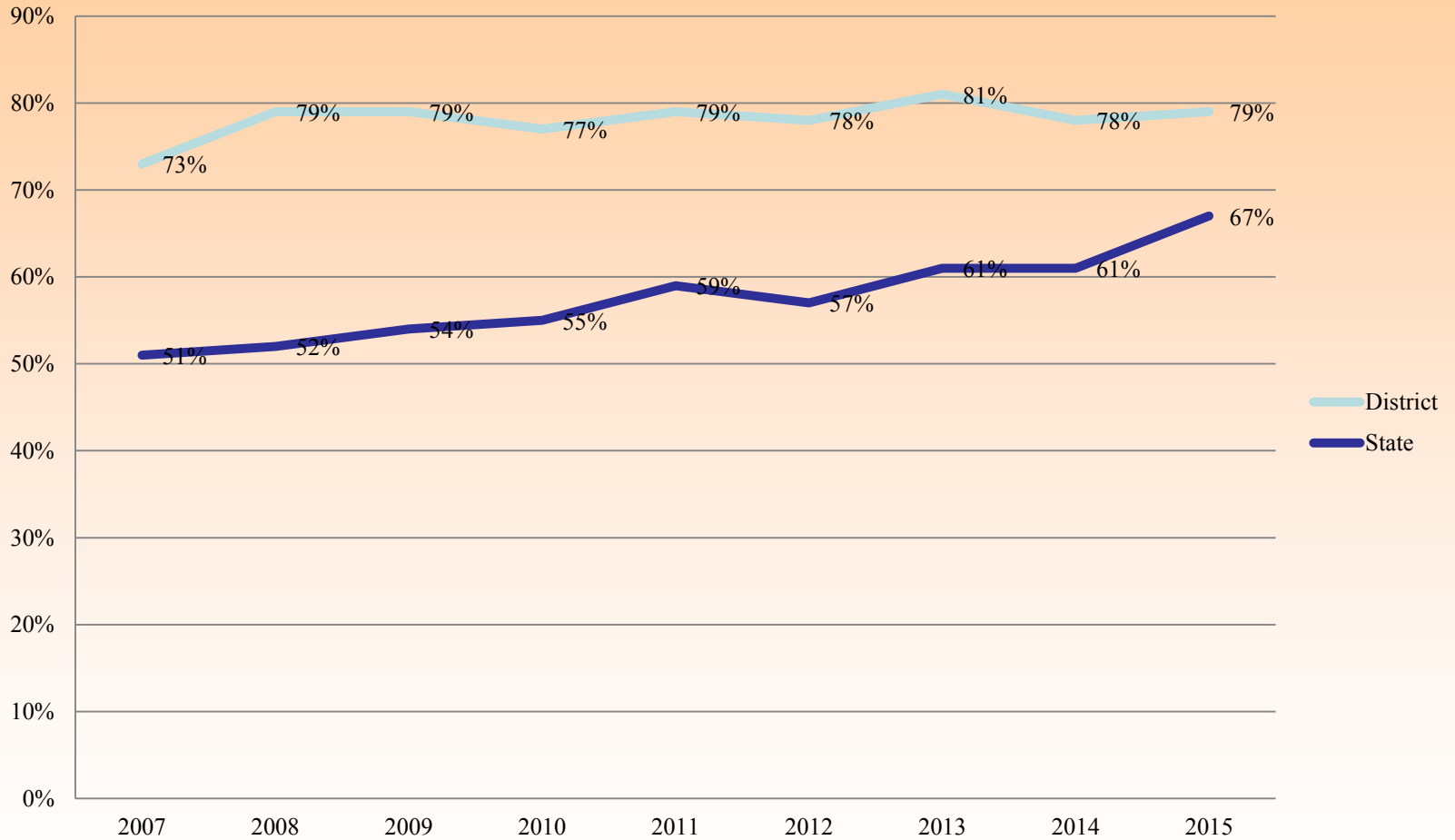
District vs. State Math Grade 3 Percent Proficient & Advanced



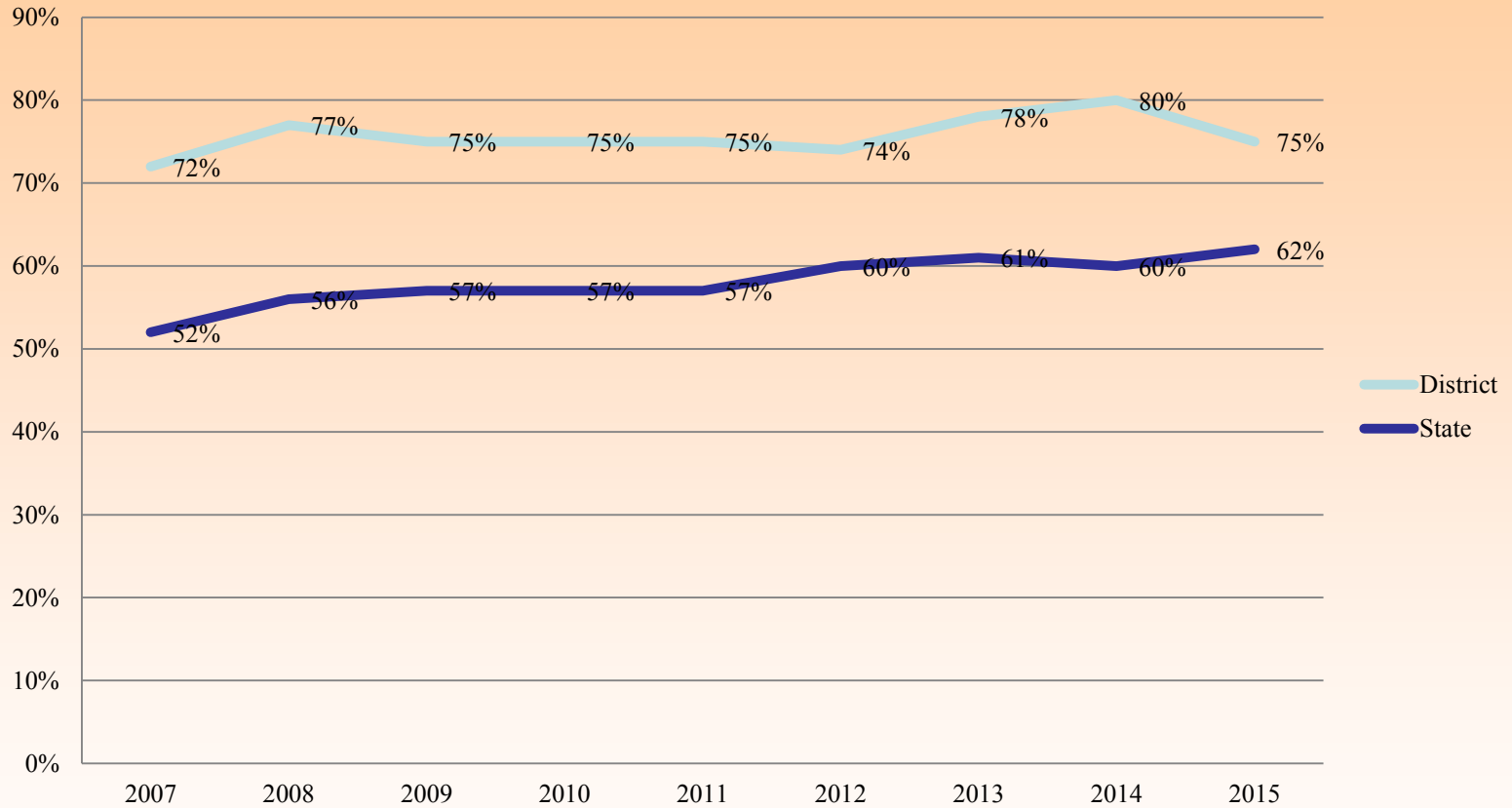
District vs. State Math Grade 4 Percent Proficient & Advanced



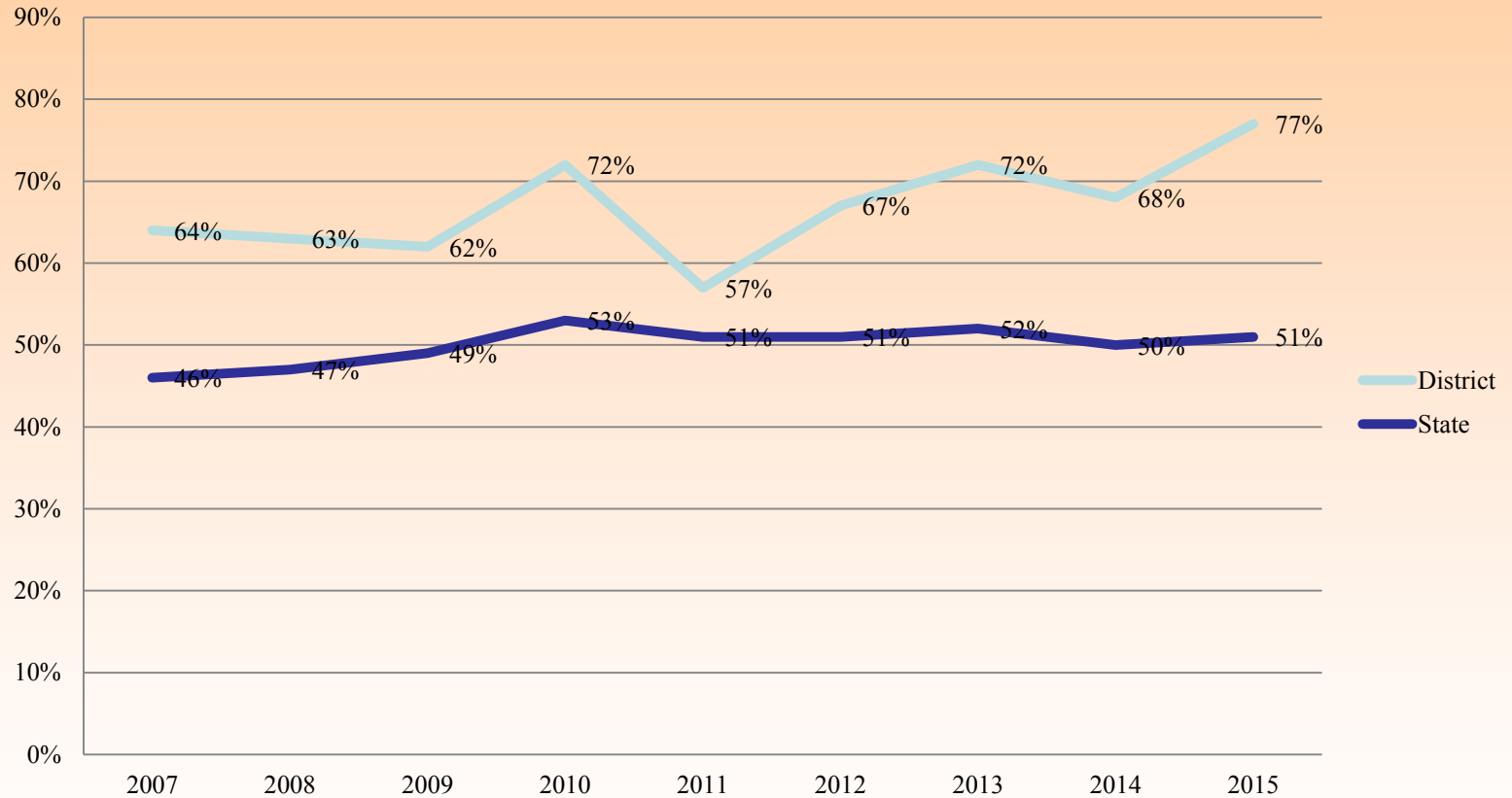
District vs. State Math Grade 5 Percent Proficient & Advanced



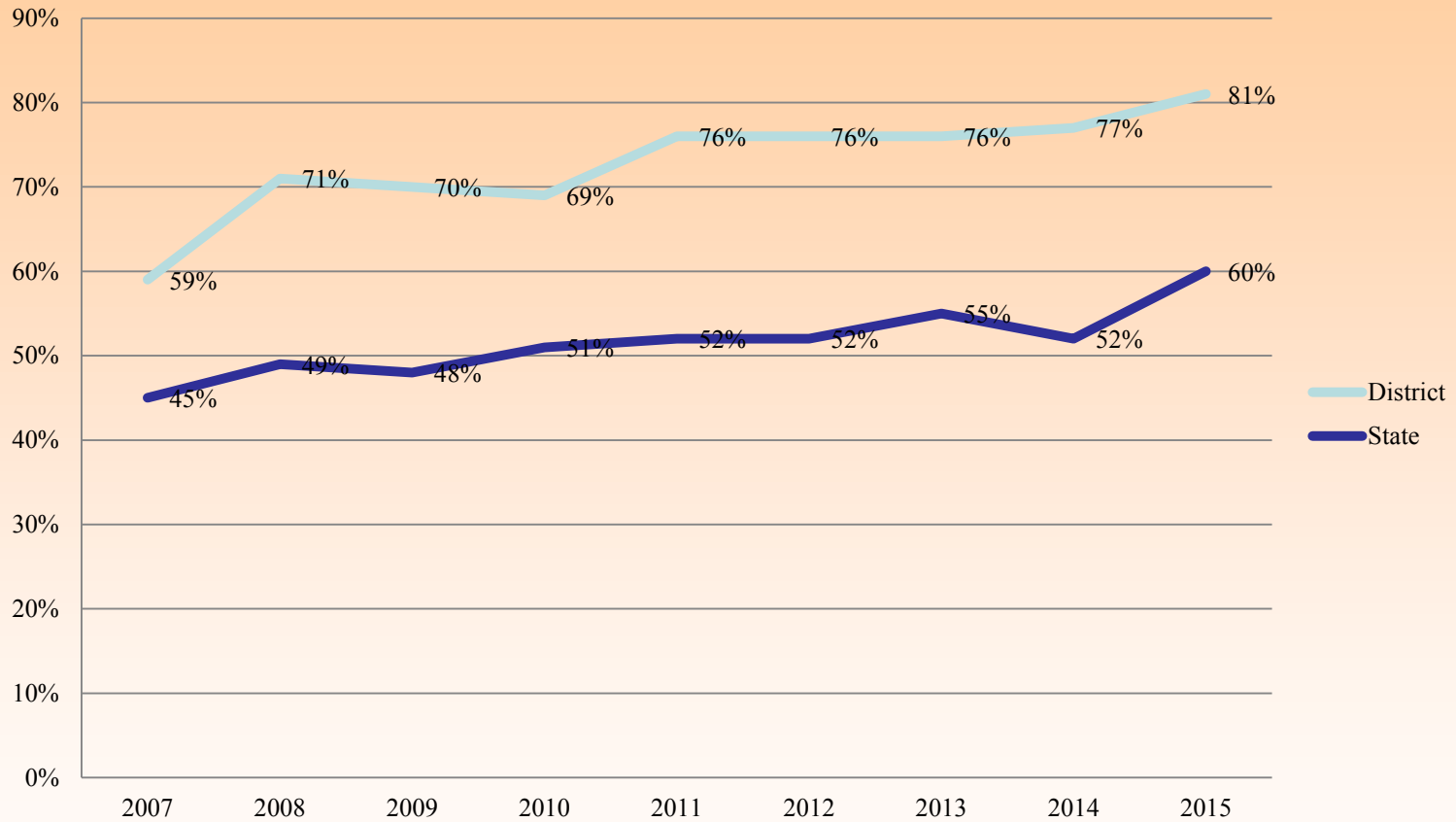
District vs. State Math Grade 6 Percent Proficient & Advanced



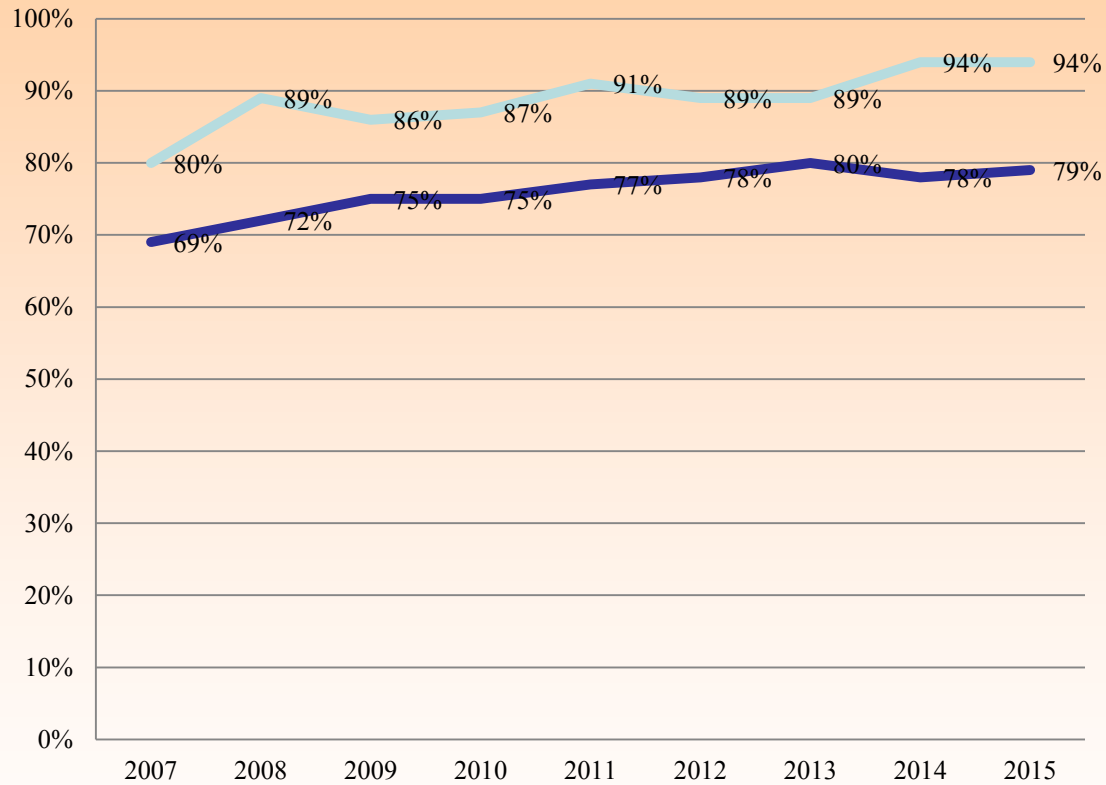
District vs. State Math Grade 7 Percent Proficient & Advanced



District vs. State Math Grade 8 Percent Proficient & Advanced



District vs. State Math Grade 10

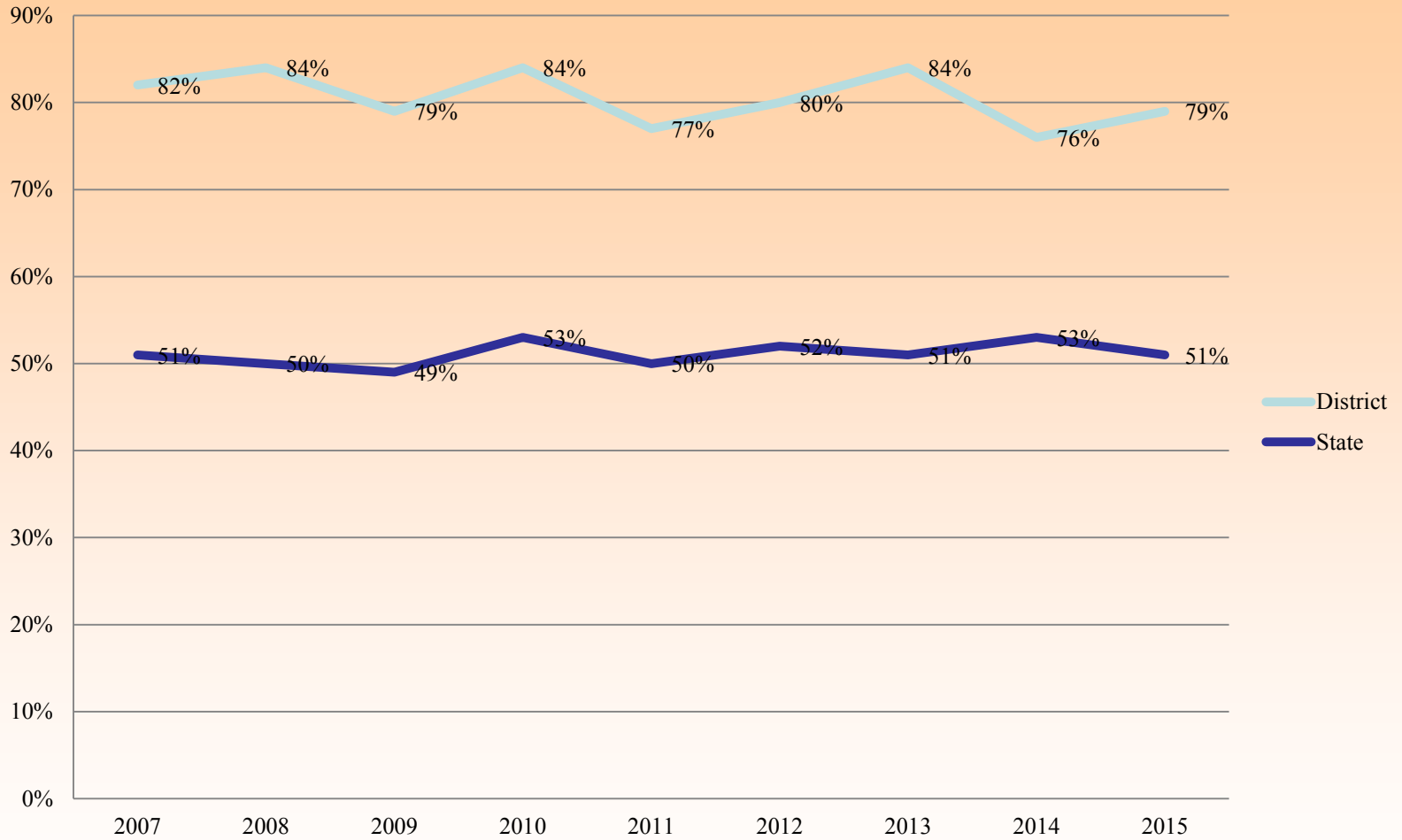


Math Results Analysis

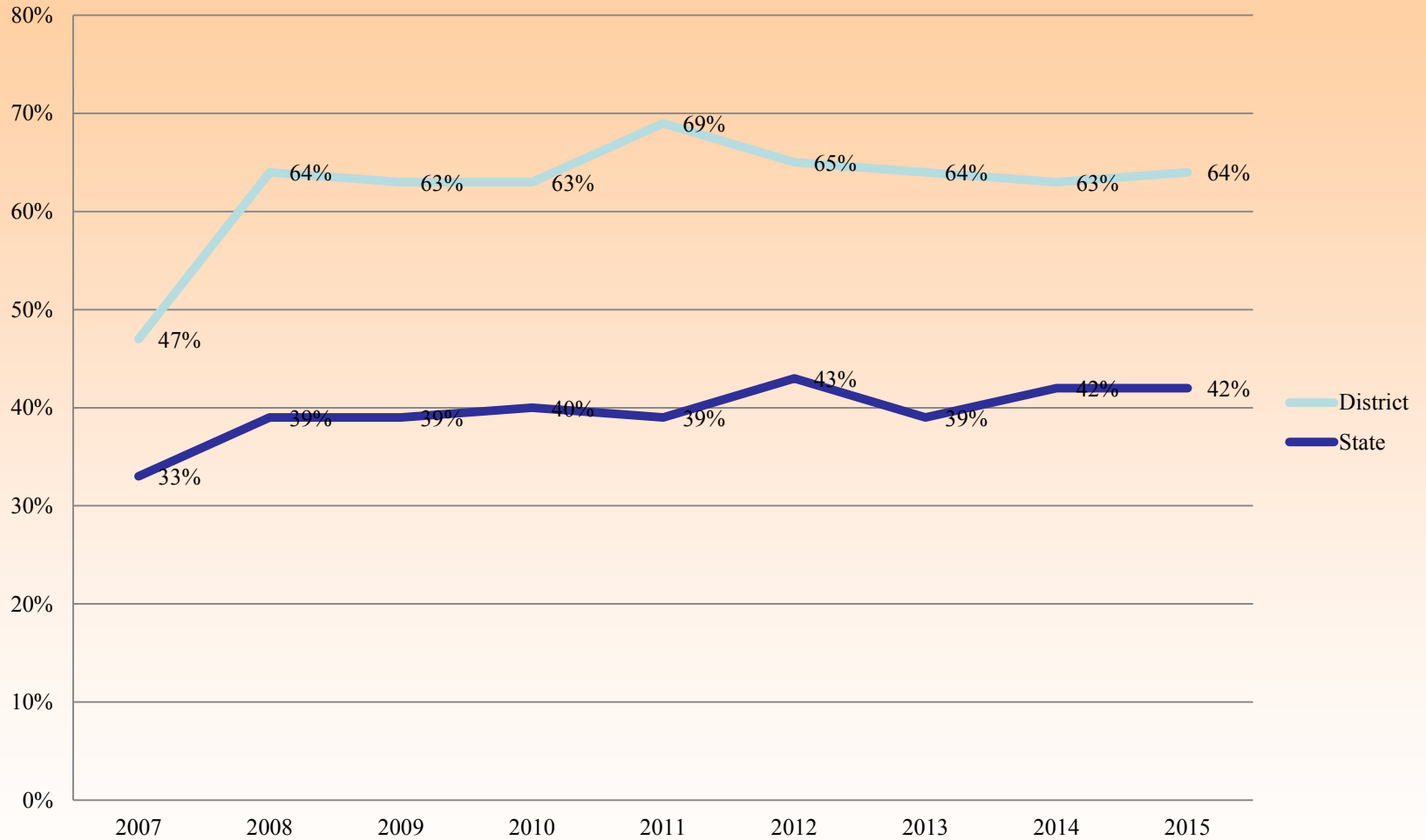
- 36 total grade 3-5 elementary students in warning across all schools
- 81% of these students scored 216-218
- There were no students in low warning
- All elementary students in warning were within 3 questions of scoring Needs Improvement
- Area of focus for PD for grades 3 – 5 is connection to high needs students
- Growth of content knowledge for high needs students at middle school is growing significantly so students who were “low warning” are able to access content who is grade level appropriate by continual focus on special ed connection at grades 3 – 5.
- Number of students recommended for math support at 6th grade is decreasing even though the number of students is increasing.

***District Science and Technology
2015***

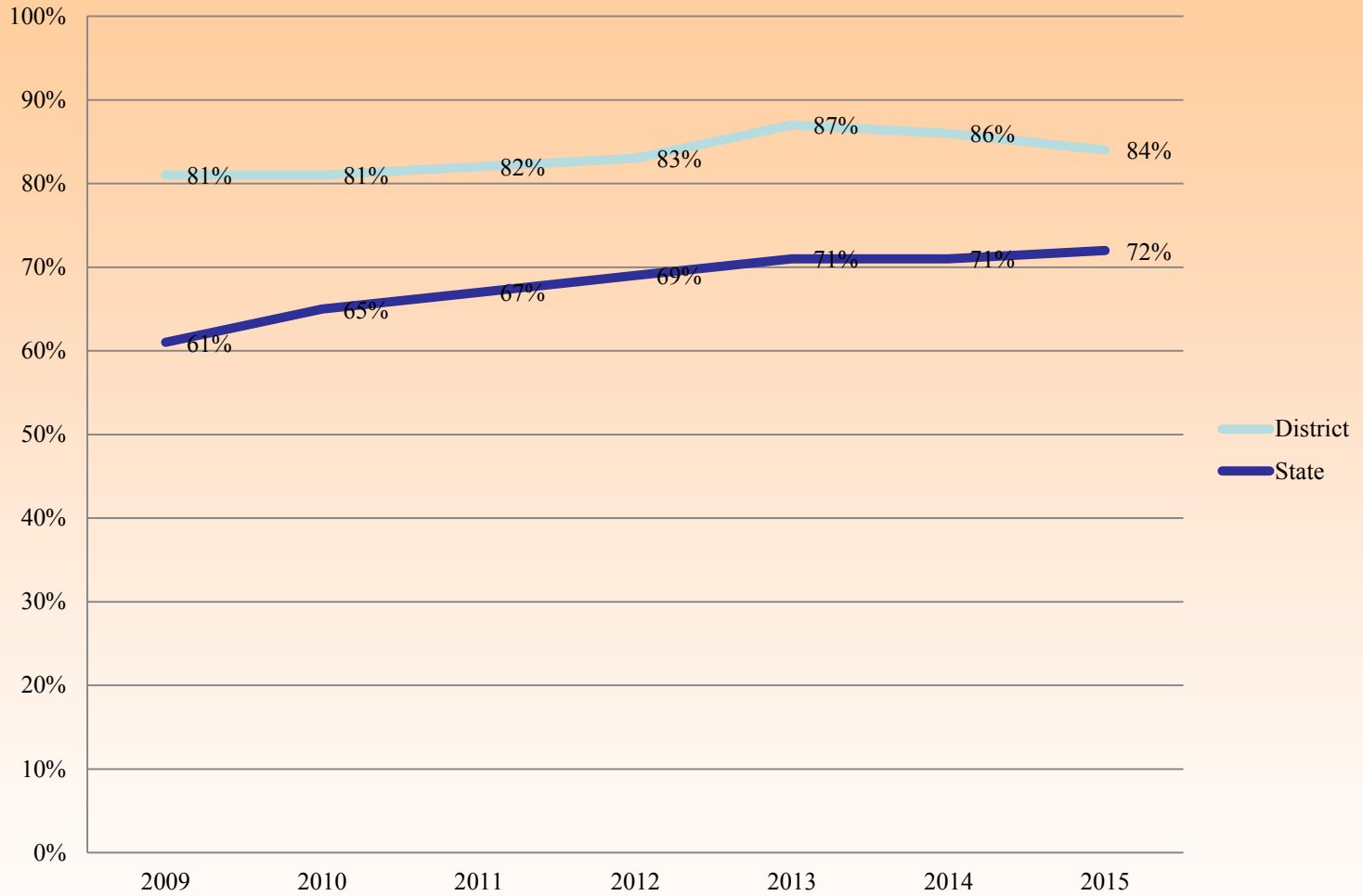
District vs. State Science Grade 5



District vs. State Science Grade 8



District vs. State Science Grade 10

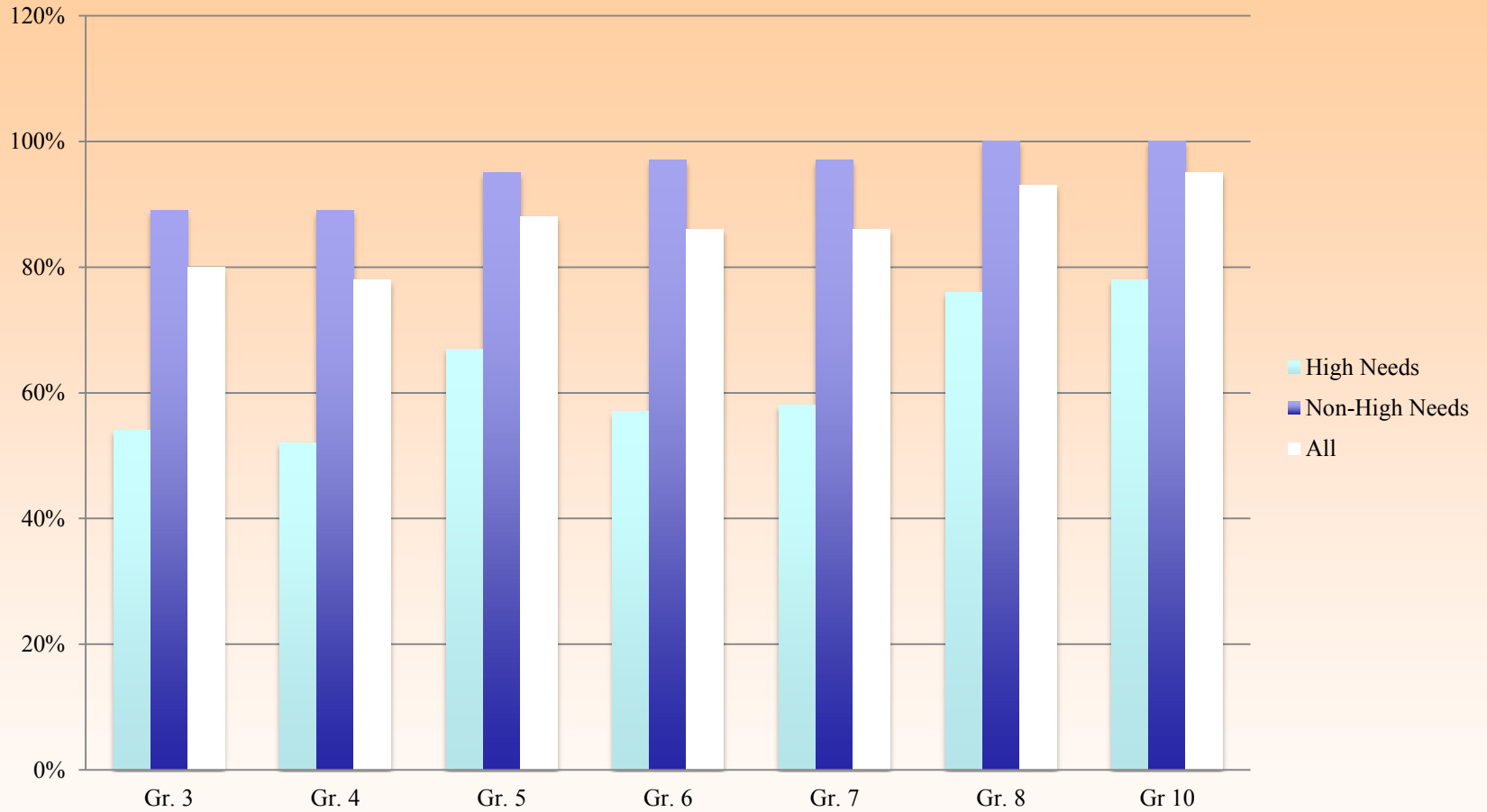


Science Analysis

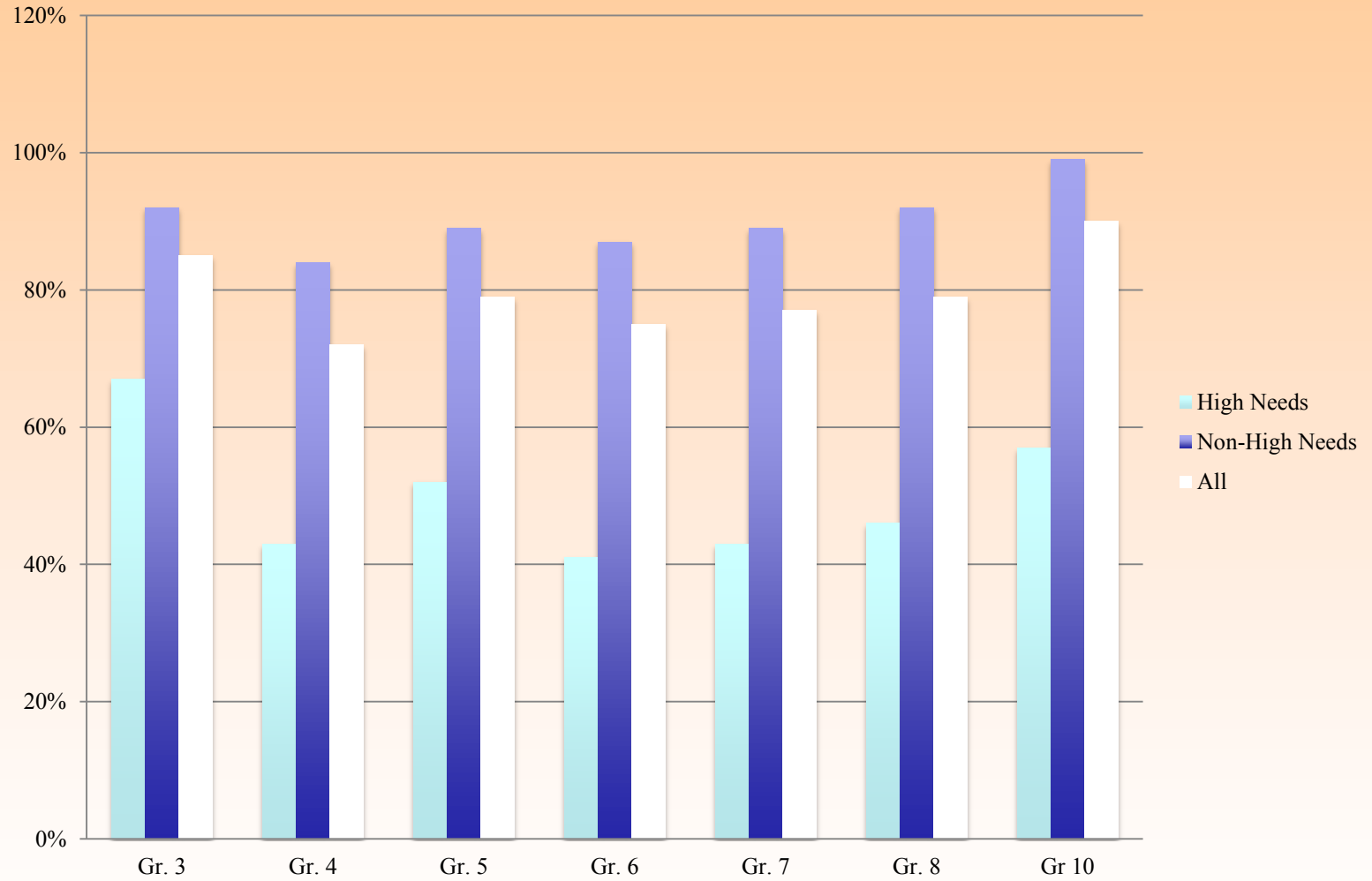
- Overall science scores show more difference from state than other MCAS subject areas.
- Percent of students scoring advanced at AHS increased significantly.
- Focus on math and ELA at elementary may have resulted in fairly static performance.

*2015 District Subgroups/
High Need Students*

2015 ELA MCAS: APS Students Reaching Proficiency



2015 Math MCAS: APS Students Reaching Proficiency



What Lies Ahead

- Deeper implementation of use of data teams at all schools.
- Inclusion of math, science, attendance, and discipline data review in data teams.
- Wider review at all levels of common assessment data by curriculum leadership team.
- Significant increase in time for teachers to work together.
- Implementation of new teacher evaluation system with specific school and teacher goals targeted to student achievement.
- Development of district-wide curriculum team to provide for teacher voice in the direction of curriculum and instruction.
- Expansion of lab program in writing.
- Expansion of PD in math at grades K – 3.
- Beginning of FOSS implementation.

Presentation References

Massachusetts Department of Elementary and Secondary Education School District Profiles:

<http://profiles.doe.mass.edu/profiles/general.aspx?topNavId=1&orgcode=00100000&orgtypecode=5&>

Massachusetts Department of Elementary and Secondary Education Statewide Reports:

http://profiles.doe.mass.edu/state_report/mcas.aspx

Massachusetts Department of Elementary and Secondary Education Data Warehouse (EDW):

<https://www4.doemass.org/auth/Login>