



DISTRICT OF COLUMBIA  
PUBLIC SCHOOLS

Office of Data and Accountability

July 2012

# DC CAS 2012 Preliminary Results





## Main findings 2012 (abbreviated)

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- Overall steady growth since reforms began in 2007
- Elementary back up after declines in 2010 and 2011
- Slight decline at secondary level after 4 years of steady progress through 2011

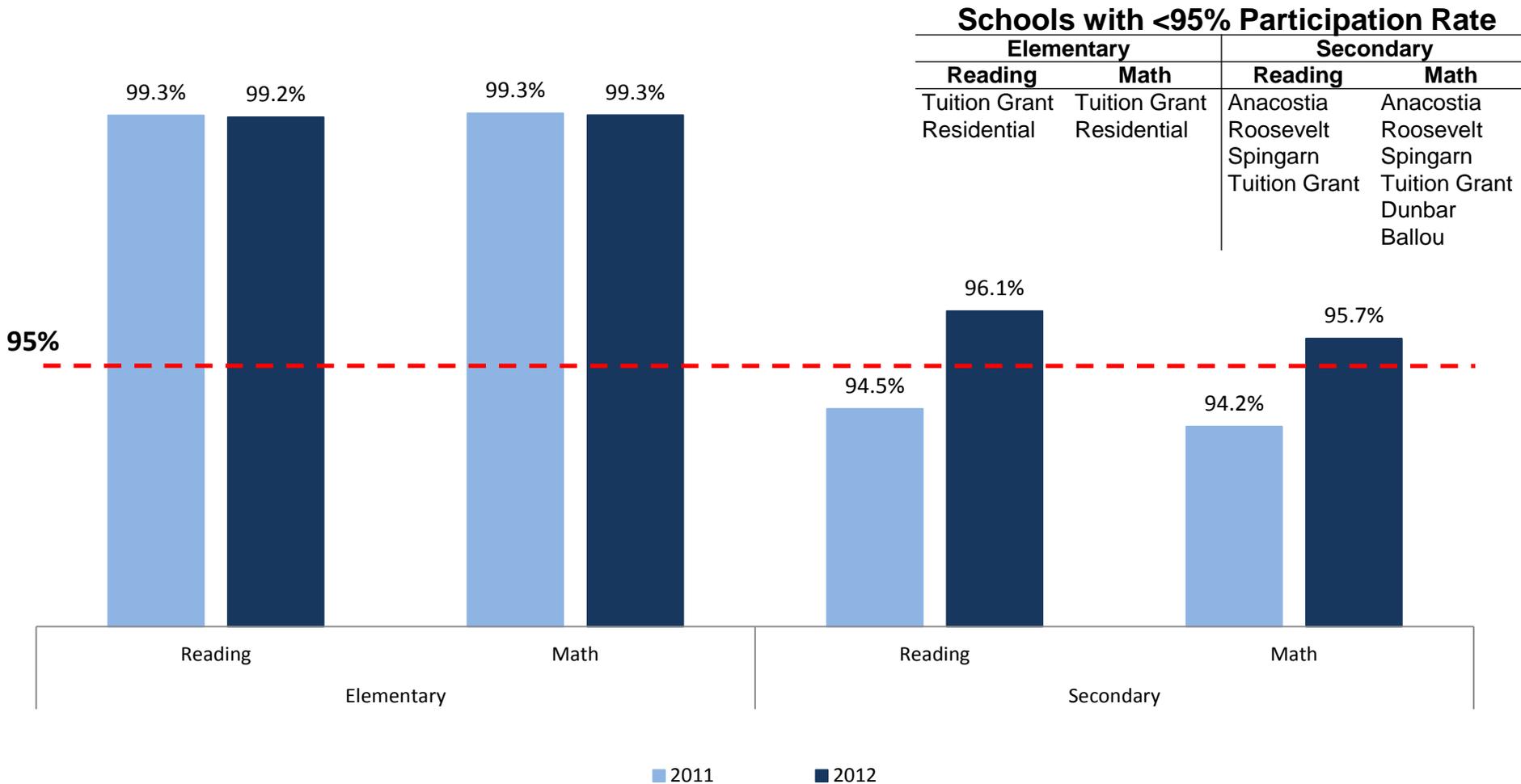
## Main findings 2012

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- Overall, DCPS composite scores showed DC CAS growth in math, up 2.7 percentage point from 2011, and science, up 5.3 percentage points, and reversed a two-year trend of declining reading scores with a .5 percentage point increase in reading.
- Elementary back up after declines in 2010 and 2011
  - One year gain of 2 and 4 percentage points in reading and math, respectively
  - Five year gains of 7 and 17 percentage points in reading and math, respectively
  - One quarter of elementary students increased by at least one performance level in math
- Slight decline at secondary level after 4 years of steady progress through 2011
  - Five year gains of 12 and 19 percentage points in reading and math, respectively
  - Increased participation rate at secondary level – exceeding federally required 95%
  - Significantly fewer secondary students earning below basic in 2012 v 2007
- Other findings
  - Two grade-subject combinations lower in 2012 than 2007: Grade 3 and 6 reading
  - Strong five-year gains for the majority of sub-groups
  - Black-white achievement gaps narrower in 3 of 4 areas; wider in elementary reading
    - Year-to-year, gaps narrow slightly in math, widen slightly in reading

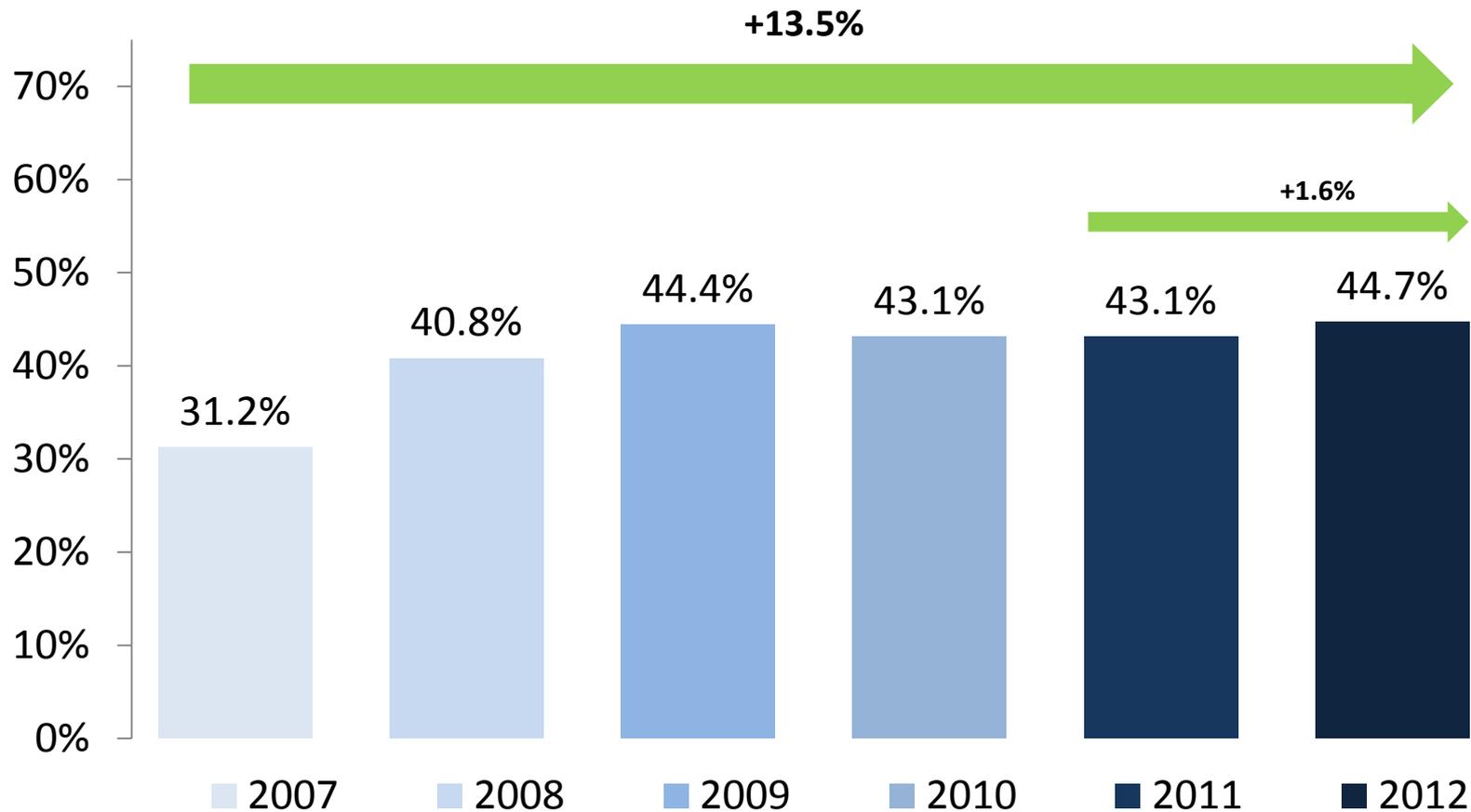
# Participation Rates – one year change

Impressive increase in percentage of secondary students taking CAS



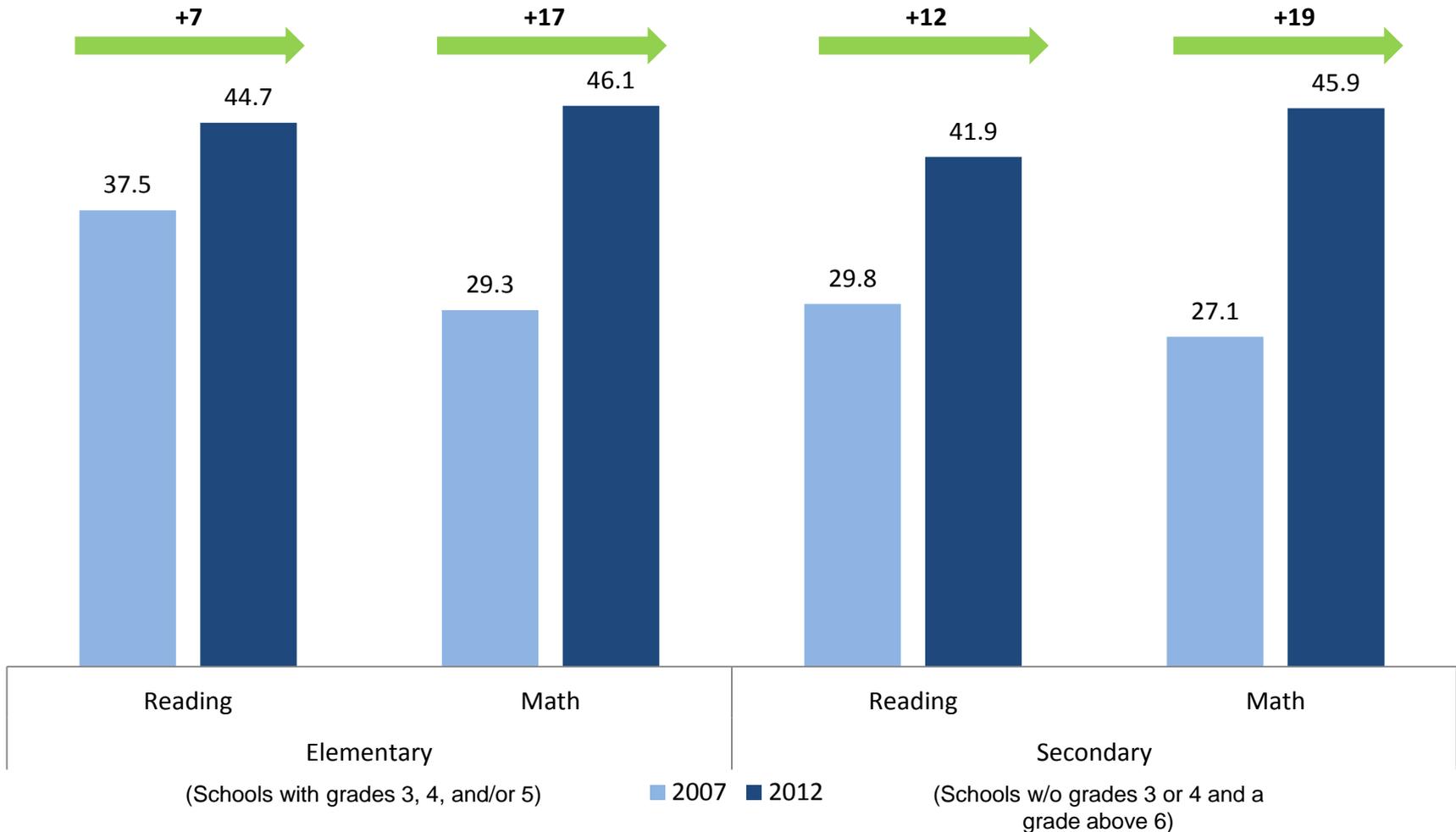
# Percent of students proficient: Composite results

Strong gains across all areas since 2007; Performance back up after 2 flat years



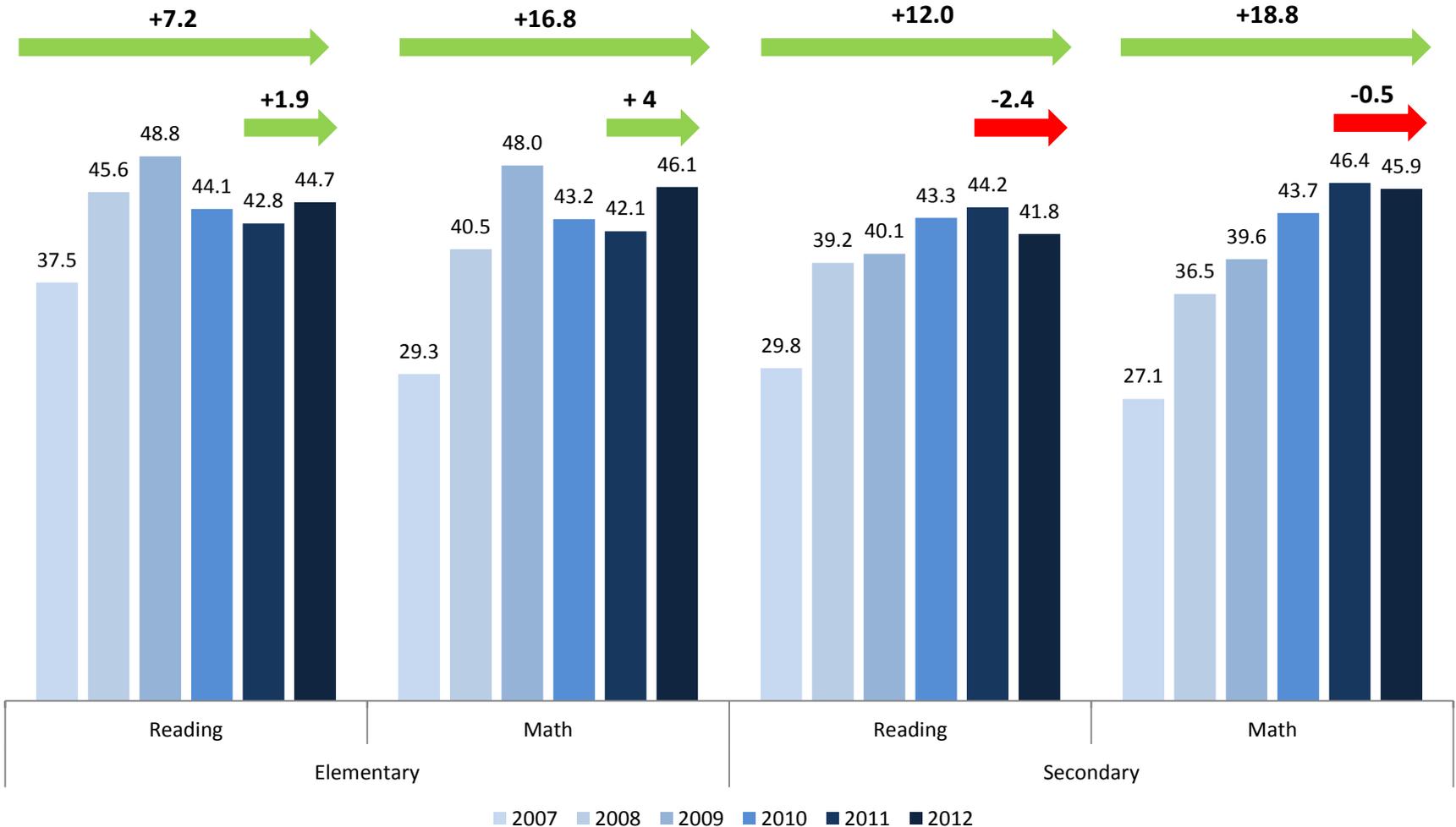
# Percent of students proficient: 5-year trends

Very strong gains across all areas since 2007



# Percent proficient by year

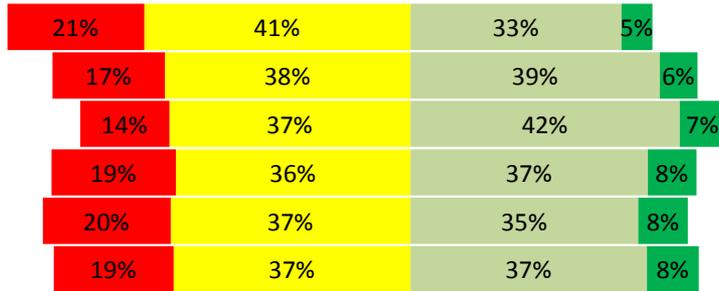
Solid growth in elementary, modest decline in secondary, from 2011 to 2012



# Performance level distribution (2007-2012)

Far fewer earning Below Basic than in 2007; change from last year is minimal

## Elementary – Reading

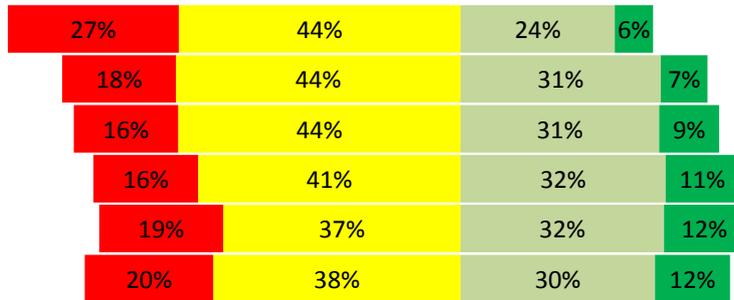


2007  
2008  
2009  
2010  
2011  
2012

## Elementary – Math



## Secondary – Reading



2007  
2008  
2009  
2010  
2011  
2012

## Secondary – Math



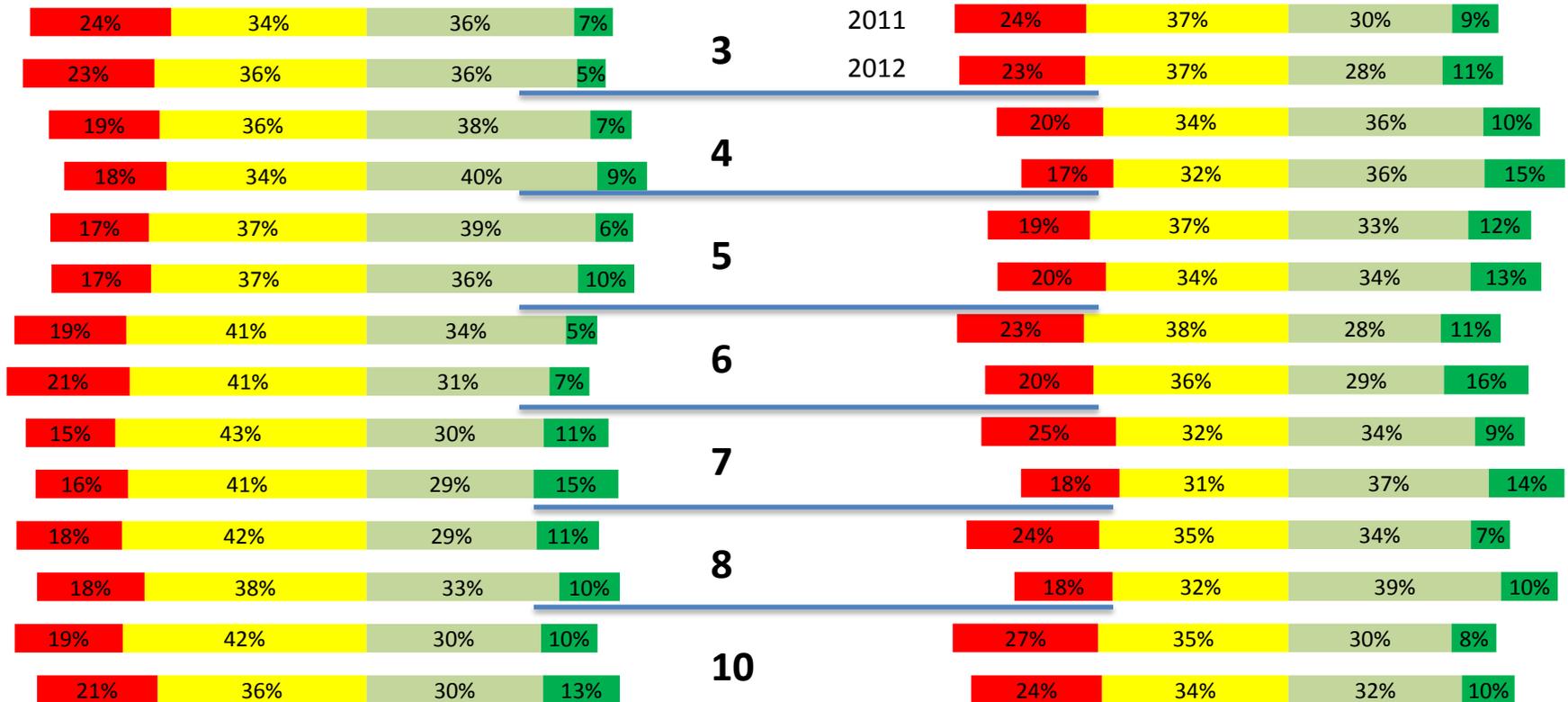
■ Below Basic   
 ■ Basic   
 ■ Proficient   
 ■ Advanced

# Performance level distribution by grade (2012)

Too many students at some grade levels still scoring Basic and Below Basic

## Reading

## Math

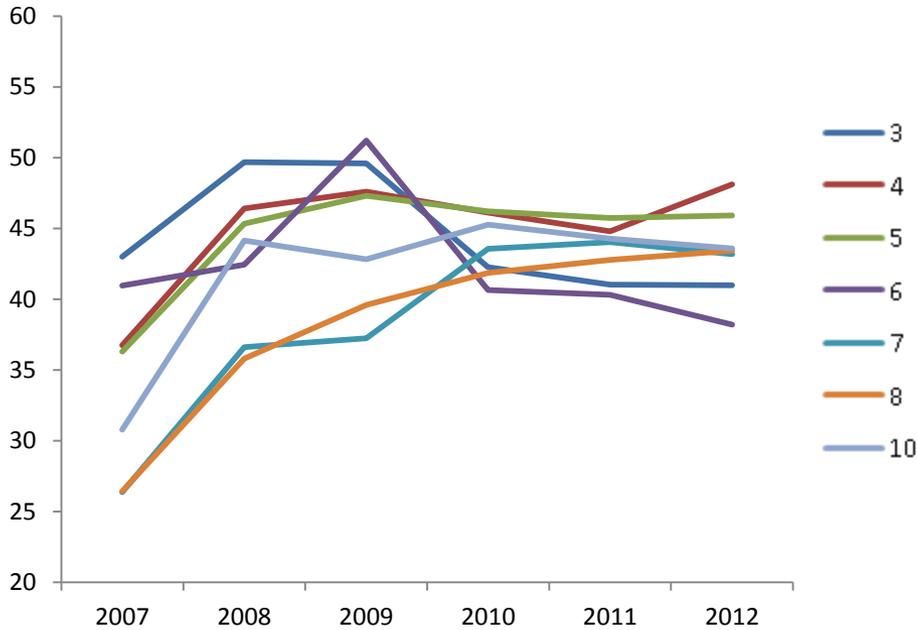


■ Below Basic
 ■ Basic
 ■ Proficient
 ■ Advanced

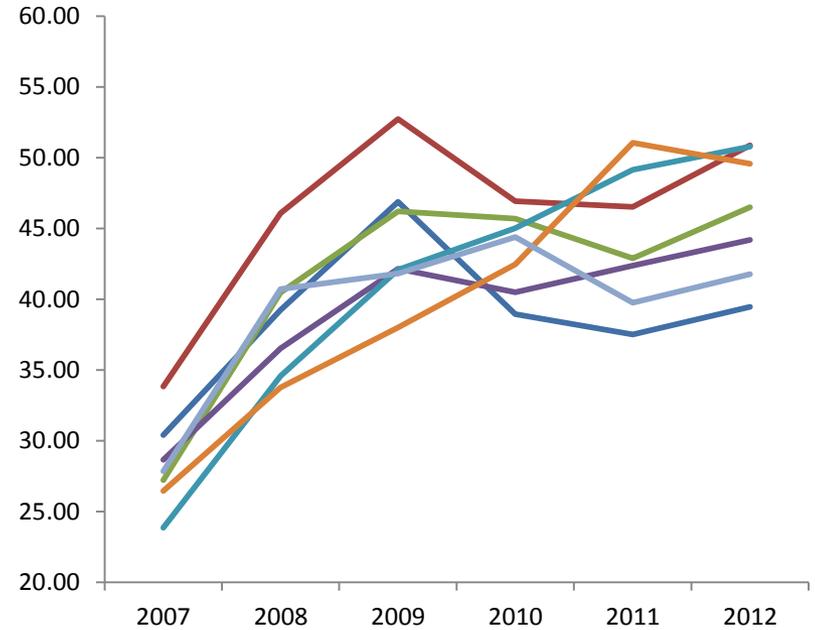
# Proficiency trends by grade (2007-2012)

Steady growth in some grades; significant variation in others

## Reading



## Math



# Proficiency changes by grade (table)

Remarkable growth at some grade levels over 5 years; modest declines in a few

Reading						Math						
2009	2010	2011	2012	Chg from Previous	Chg from 2007	Grade	2009	2010	2011	2012	Chg from Previous	Chg from 2007
49%	42%	41%	41%	0%	-2%	<b>3</b>	46%	39%	38%	39%	1%	9%
48%	46%	45%	48%	3%	11%	<b>4</b>	53%	47%	47%	51%	4%	17%
47%	46%	46%	46%	0%	10%	<b>5</b>	46%	46%	43%	46%	3%	19%
51%	41%	40%	38%	-2%	-3%	<b>6</b>	42%	40%	42%	44%	2%	16%
37%	44%	44%	43%	-1%	17%	<b>7</b>	42%	45%	49%	51%	2%	27%
40%	42%	43%	43%	0%	17%	<b>8</b>	38%	43%	51%	50%	-1%	23%
43%	45%	44%	44%	0%	13%	<b>10</b>	42%	44%	40%	42%	2%	14%

# Student performance level changes from 2011 to 2012

District-wide: 21% of students increased, 64% stayed the same, 15% decreased

## Elementary – Reading

Movement	Count	Percentage
Up 2+ levels	59	1%
Up 1 level	1507	21%
Same level	4668	65%
Down 1 level	921	13%
Down 2+ levels	32	0%

## Elementary – Math

Movement	Count	Percentage
Up 2+ levels	89	1%
Up 1 level	1726	24%
Same level	4432	61%
Down 1 level	945	13%
Down 2+ levels	47	1%

## Secondary – Reading

Movement	Count	Percentage
Up 2+ levels	16	0%
Up 1 level	803	17%
Same level	2982	64%
Down 1 level	815	17%
Down 2+ levels	77	2%

## Secondary – Math

Movement	Count	Percentage
Up 2+ levels	38	1%
Up 1 level	852	18%
Same level	3050	65%
Down 1 level	692	15%
Down 2+ levels	63	1%

# Student performance level changes from 2011 to 2012

Approximately one-third of students earning Below Basic in 2011 moved to Basic

## Elementary – Reading



## Elementary – Math



## Secondary – Reading



## Secondary – Math



# Sub-group Performance and Achievement Gaps

# Proficiency by subgroup - elementary (table)

Modest growth for some subgroups; decline for Asian and ELL students

ELEMENTARY	Reading						Math					
	2009	2010	2011	2012	Chg from Previous	Chg from 2007	2009	2010	2011	2012	Chg from Previous	Chg from 2007
<b>Black</b> (n=8162)	43%	38%	36%	36%	0%	+3%	42%	37%	33%	36%	+3%	+13%
<b>Hispanic</b> (n=1881)	50%	45%	47%	48%	+1%	+3%	54%	48%	53%	55%	+2%	+16%
<b>White</b> (n=1145)	90%	88%	90%	91%	+1%	+6%	89%	88%	89%	90%	+1%	+12%
<b>Asian</b> (n=203)	74%	77%	73%	71%	-2%	+4%	81%	82%	82%	79%	-3%	+11%
<b>Mixed Race</b> ★ (n=168)				81%						85%		
<b>ELL</b> (n=1687)	50%	44%	42%	41%	-1%	-1%	56%	48%	49%	49%	0%	+12%
<b>FARMS</b> (n=8067)	41%	36%	34%	34%	0%	+2%	41%	36%	34%	36%	+2%	+12%
<b>SPED</b> (n=2242)	23%	16%	17%	19%	+2%	+3%	21%	19%	19%	20%	+1%	+10%

★ New reporting category for 2012

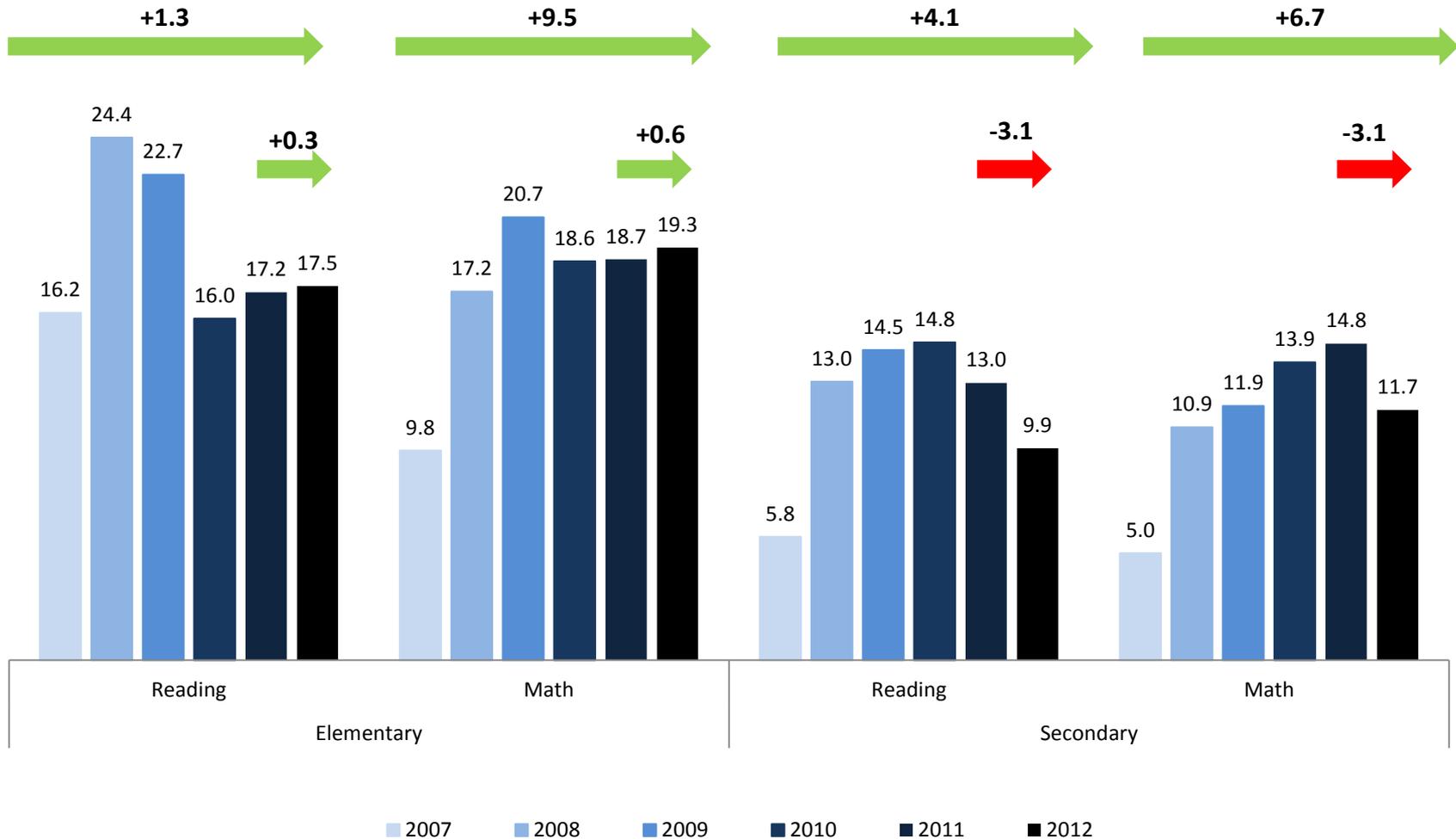
# Proficiency by subgroup - secondary (table)

Strong 5-year growth. but declines from last year for most sub-groups

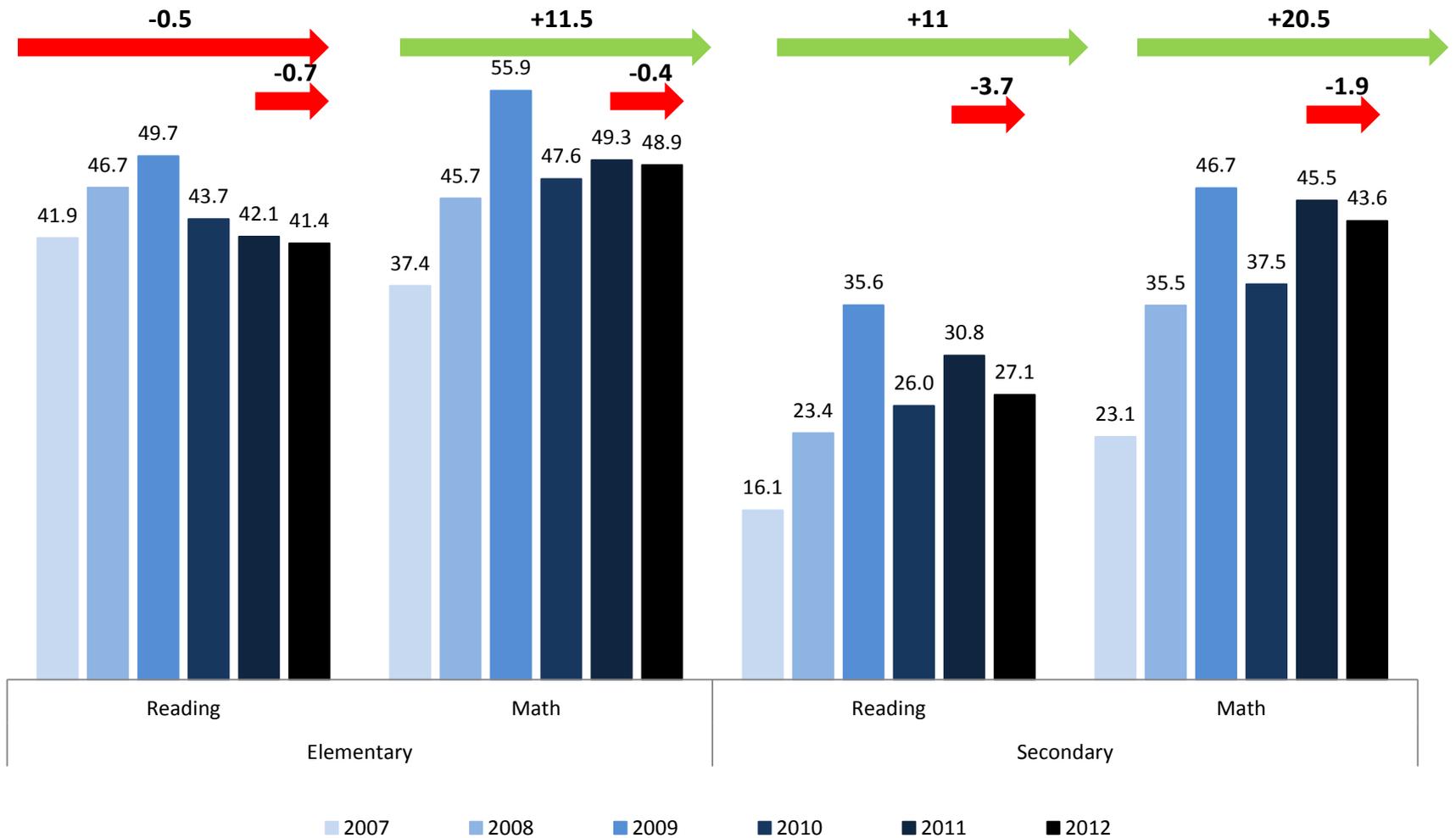
SECONDARY	Reading					Math						
	2009	2010	2011	2012	Chg from Previous	Chg from 2007	2009	2010	2011	2012	Chg from Previous	Chg from 2007
<b>Black</b> (n=6336)	35%	38%	38%	35%	-3%	+9%	34%	38%	40%	39%	-1%	+16%
<b>Hispanic</b> (n=853)	47%	39%	49%	44%	-5%	+10%	53%	47%	52%	49%	-3%	+17%
<b>White</b> (n=697)	89%	90%	87%	89%	+2%	-4%	84%	89%	89%	88%	-1%	-4%
<b>Asian</b> (n=168)	75%	76%	67%	67%	0%	+11%	87%	84%	86%	88%	+2%	+14%
<b>Mixed Race</b> ★ (n=102)				86%						90%		
<b>ELL</b> (n=542)	36%	26%	31%	27%	-4%	+11%	47%	38%	45%	44%	-1%	+21%
<b>FARMS</b> (n=5219)	32%	33%	33%	31%	-2%	+10%	32%	34%	37%	36%	-1%	+16%
<b>SPED</b> (n=1966)	14%	15%	13%	12%	-1%	+6%	12%	14%	15%	14%	-1%	+9%

★ New reporting category for 2012

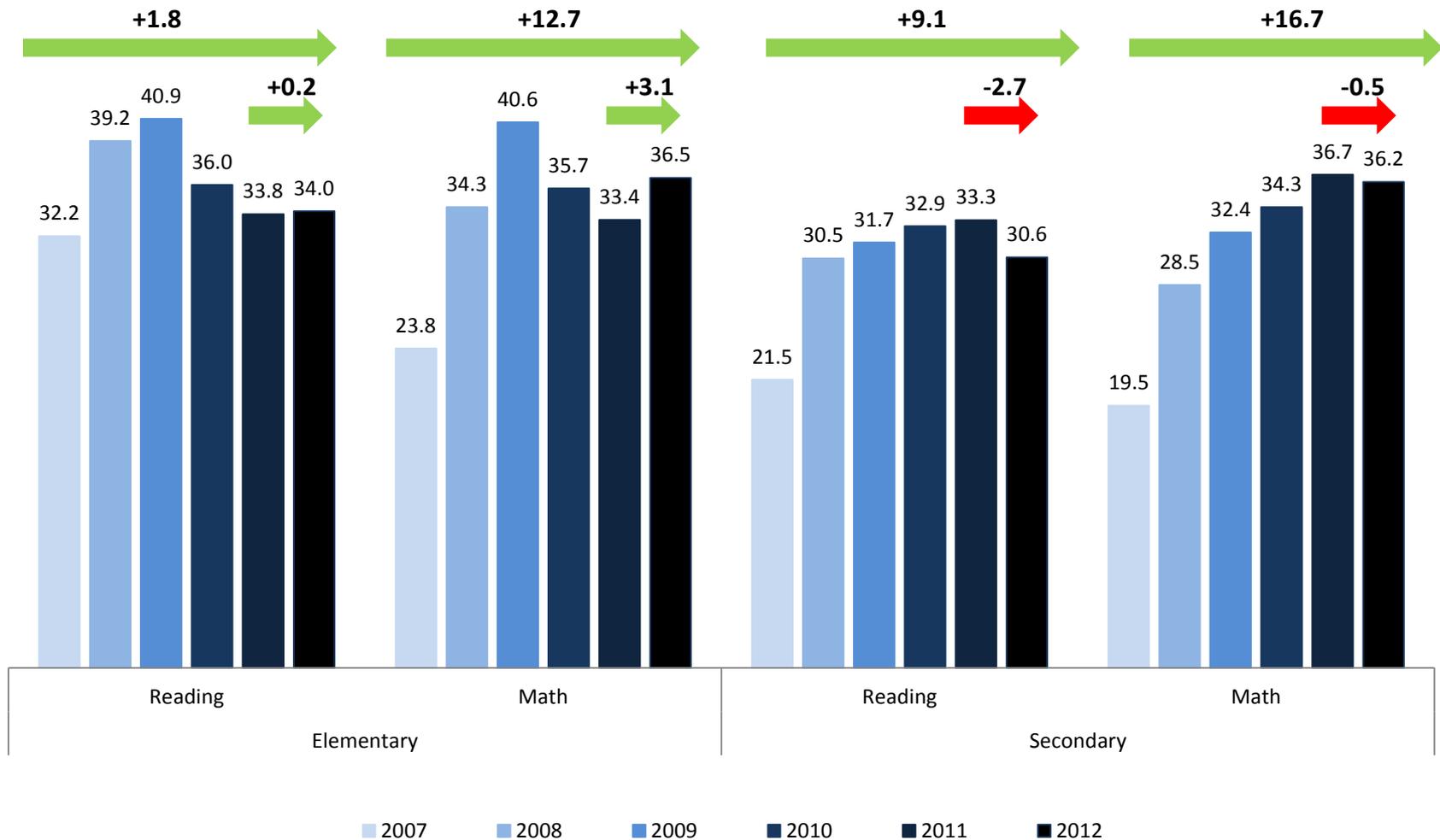
# Percent proficient over time – Special Education



# Percent proficient over time – English Language Learners

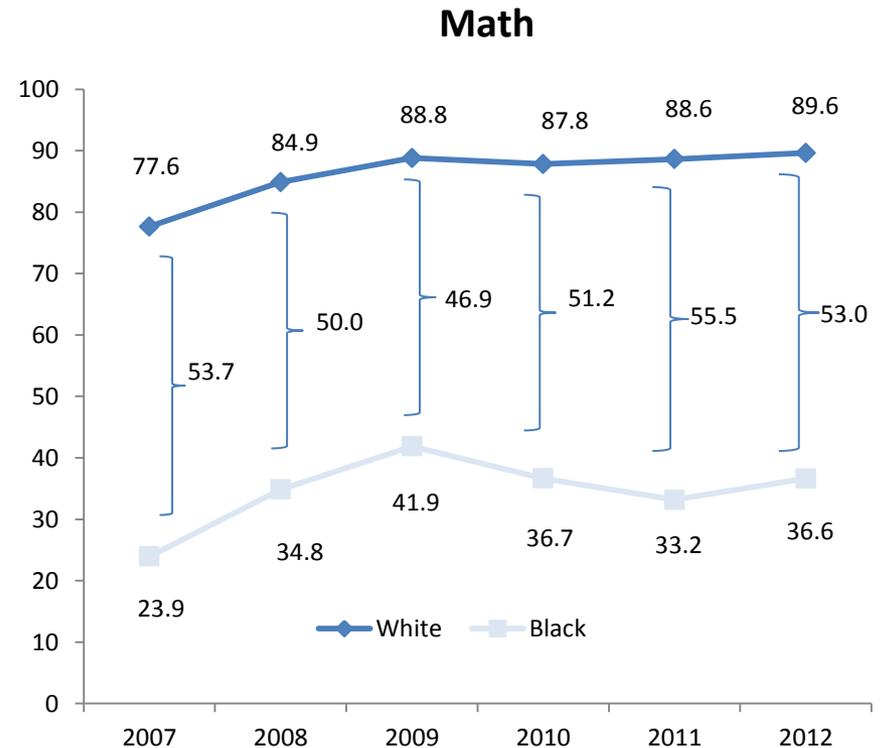
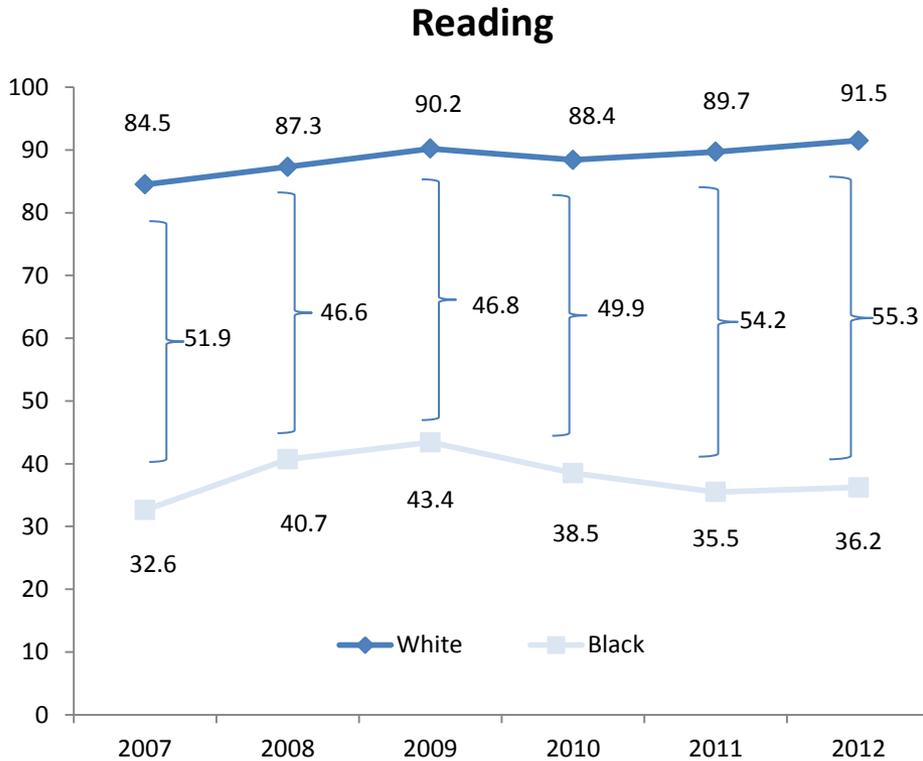


# Percent proficient over time – Free and Reduced Meals



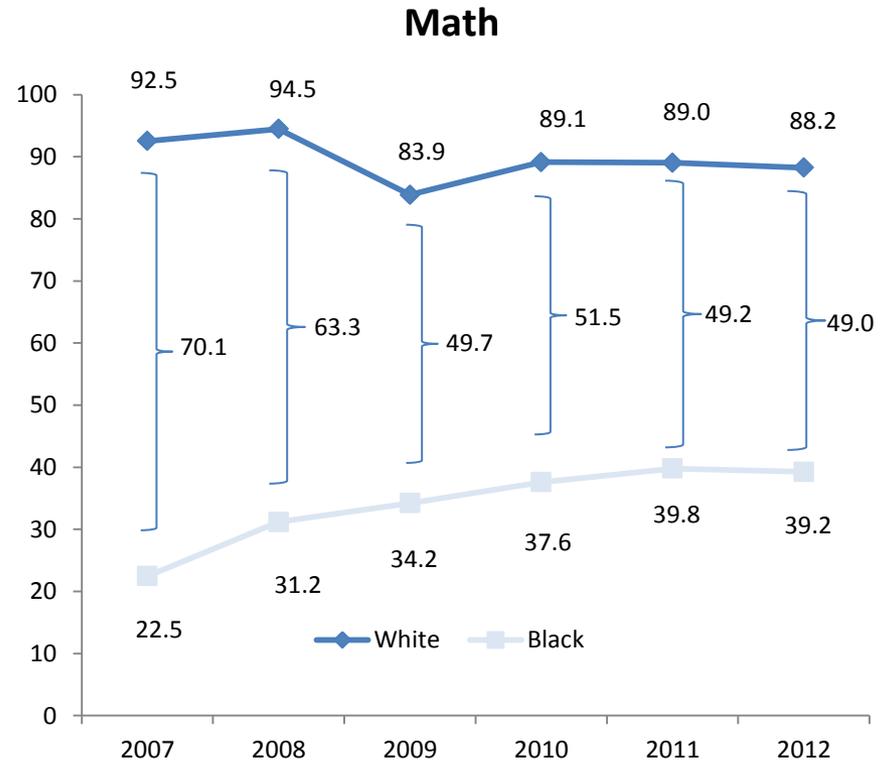
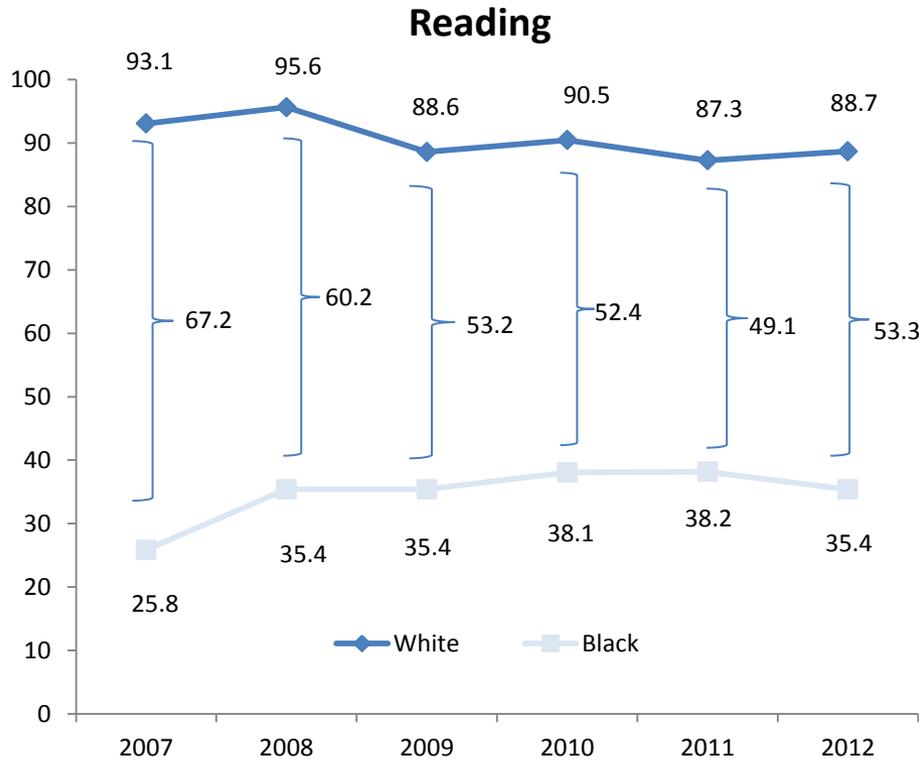
# Black-white achievement gap: Elementary

Gap widened slightly in reading; narrowed in math



# Black-white achievement gap: Secondary

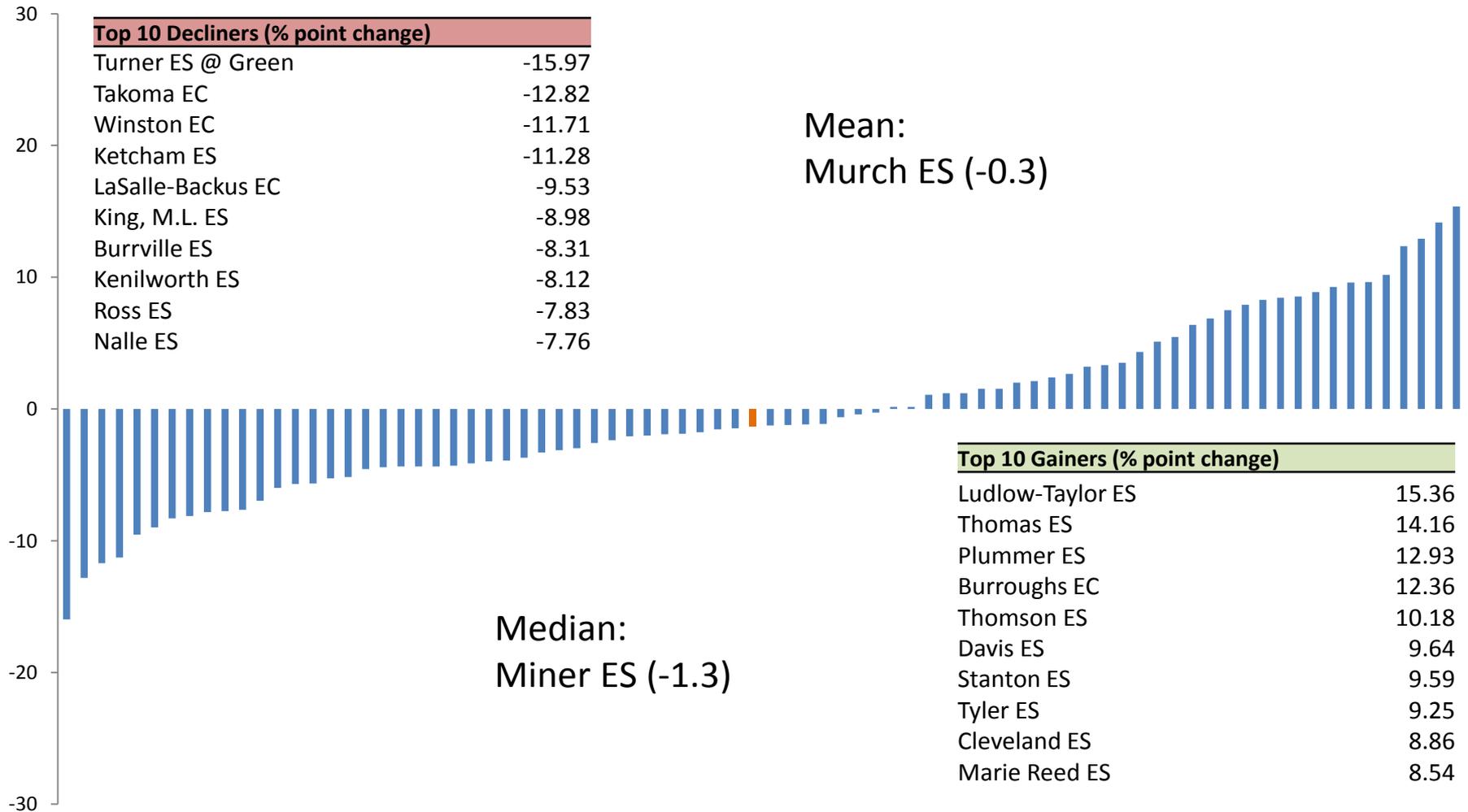
Gap widened in reading; stayed constant in math



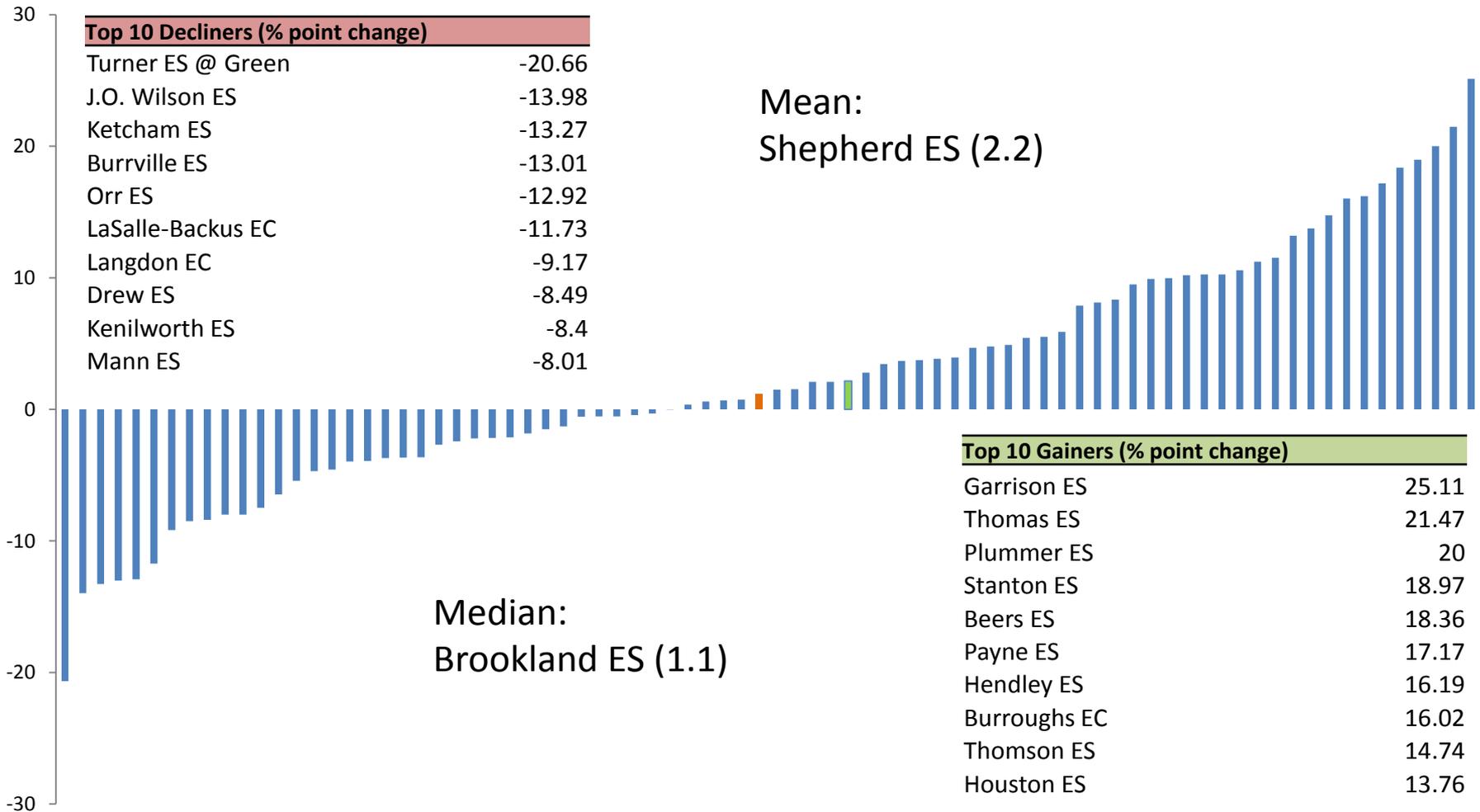
# Proficiency changes over time

by school

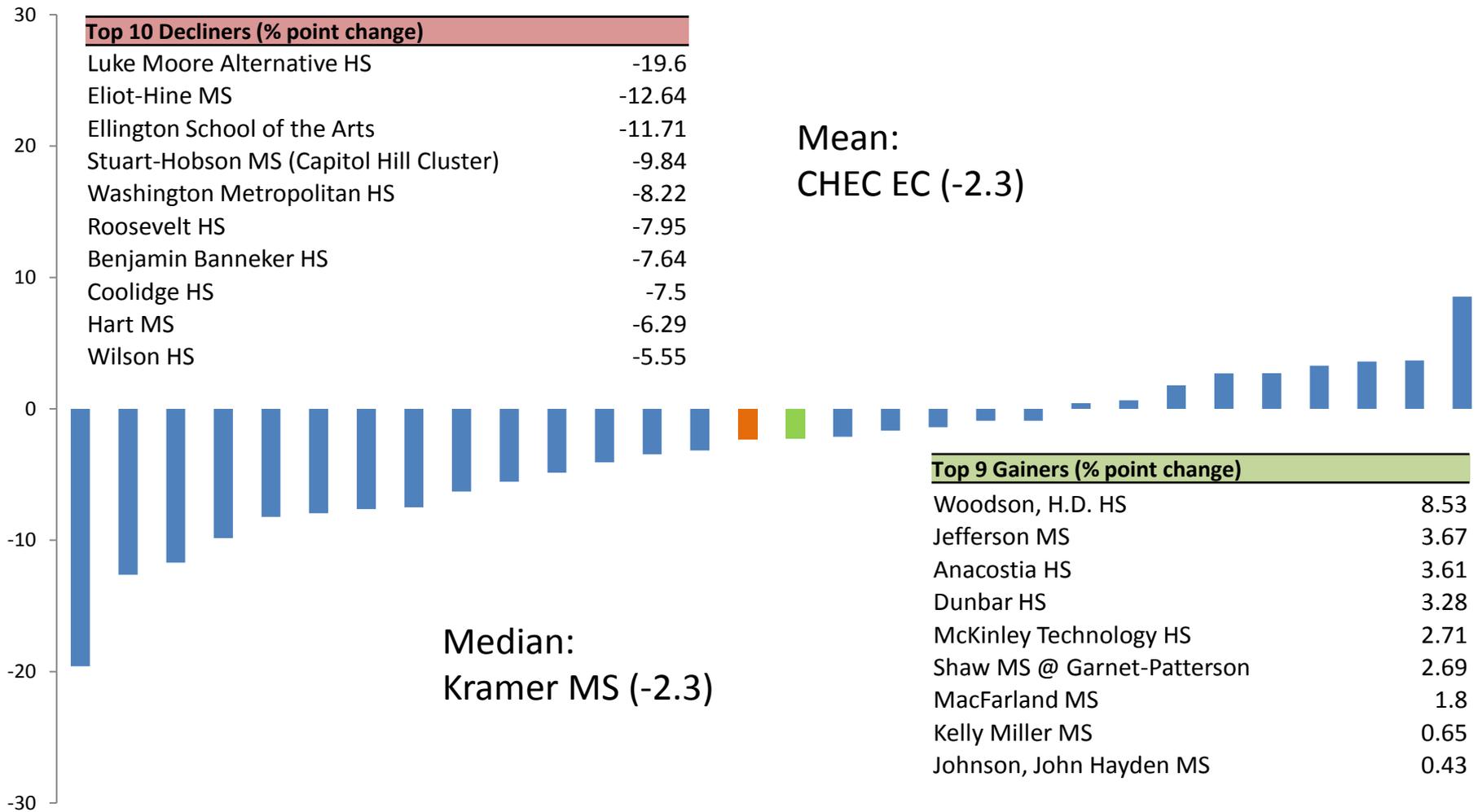
# Elementary reading proficiency changes, 2011-2012



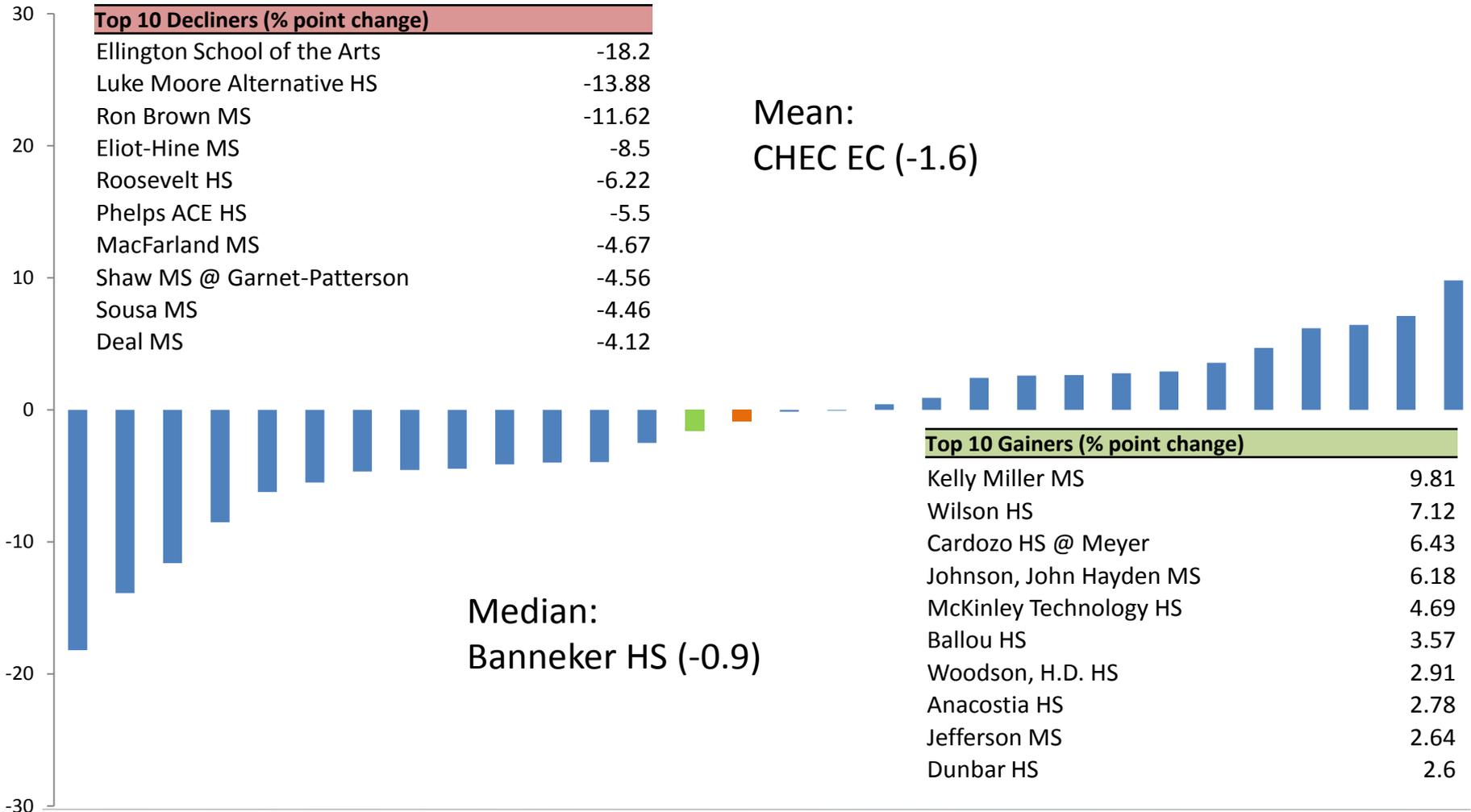
# Elementary math proficiency changes, 2011-2012



# Secondary reading proficiency changes, 2011-2012



# Secondary math proficiency changes, 2011-2012



# Science

# Science Results – Overall Performance by Grade

Biology is markedly higher than 5<sup>th</sup> or 8<sup>th</sup> grade



Below Basic Basic Proficient Advanced

# Science Results – Performance by Subgroup

