



# Salem Public Schools 2019 MCAS Results

**Salem Public Schools  
School Committee Meeting  
October 7, 2019**

# Highlights of MA's New Accountability System

- **Additional accountability indicators**
  - Provide information about school performance & student opportunities beyond test scores
- **Two ways of measuring progress**
  - To what extent is the school/district meeting its targets (progress toward targets)
  - How the progress made compares with others across state (accountability percentiles)
- **Two categories of students – same indicators applied to**
  - Look at the performance of the school as a whole (all students) and
  - How well the school/district raises the performance its lowest performing quartile (25%)
- **Discontinuation of accountability & assistance levels 1-5**
  - Replaced with accountability categories that define the progress that schools are making & the type of support they may receive from DESE
  - Lowest performing schools identified for assistance or intervention
- **Districts classified based on district-level data**
  - No longer based on the performance of a district's lowest performing school
  - Treats districts like one big school (all students, regardless of enroll date)



# District-Level Accountability Results

# 2019 SPS Accountability Results

In the Accountability Tab in the School Profiles on the DESE website. Top section provides:

- Overall classification (top)
- Reason for classification (just under Overall classification)
- Progress toward improvement targets (bottom left)
- Accountability percentile (bottom right – for schools only)

Overall classification	Not requiring assistance or intervention	
Reason for classification	Substantial progress toward targets	
Progress toward improvement targets	61% - Substantial progress toward targets	Accountability percentile
		-

OVERALL RESULTS	SUBGROUP RESULTS	DETAILED DATA FOR EACH INDICATOR	SCHOOLS IN THIS DISTRICT
<b>Overall progress toward improvement targets</b>			
	2018	2019	
Annual criterion-referenced target percentage	59%	63%	
Weight	40%	60%	
<b>Cumulative criterion-referenced target percentage</b> (2018 x 40%) + (2019 x 60%)	61%		
	Substantial progress toward targets		

**NEW! This year, the progress toward targets is cumulative (combines 2018 and 2019 annual progress on targets). Districts making over 50% are making “substantial progress toward targets.”**

# 2019 Results by Grade Span

## Breakdown of Results for HS and Non-HS Grades

- With 2018 comparison

% Progress Toward Targets (Non-High School Grades)		% Progress Toward Targets (High School Grades)	
2018	2019	2018	2019
69.0%	65.0%	38.0%	59.0%

For the Non-HS Grades, progress toward targets was not as strong in 2019 as in 2018, however results for the HS improved significantly (up more than 20 points from 38% to 59%) since the previous year.

## “All Students” Category vs. “Lowest Performing Students” Category

- Each category counts 50% each toward overall results

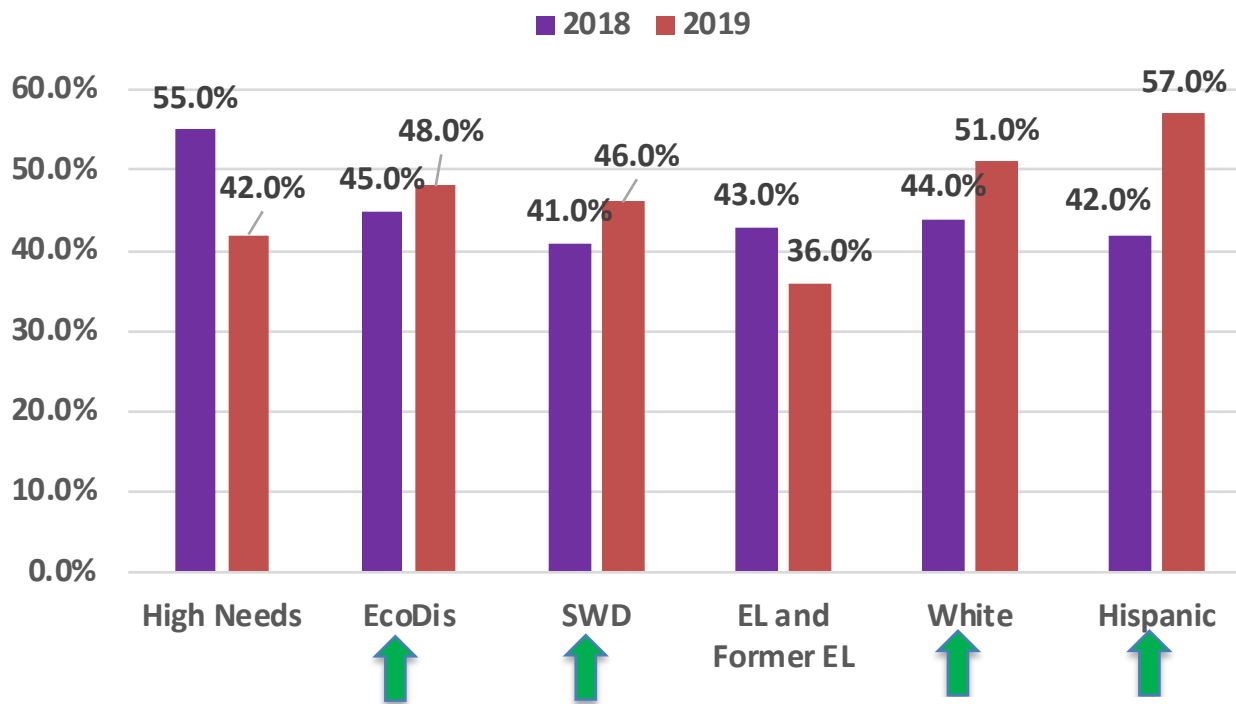
% Progress Toward Targets Non-High School Grades				% Progress Toward Targets High School Grades			
All Students		Lowest Perf		All Students		Lowest Perf	
2018	2019	2018	2019	2018	2019	2018	2019
48.0%	58.0%	89.0%	71.0%	25.0%	41.0%	50.0%	78.0%

While the Non-HS results for the lowest performing student category dropped, results for the all students category increased by 10 points.

Salem’s HS grades improved results significantly in both categories and especially for its lowest performing students.

# % Progress Toward Targets - Subgroups

% Progress toward Targets for Subgroups, 2018 to 2019



Subgroup	Cumulative Progress (2018 + 2019)
High Needs	47%
Economically Disadvantaged	47%
EL and Former EL	38%
Students with Disabilities	44%
Hispanic/Latino	51%
White	48%

Salem improved progress toward targets for 4 out of 6 subgroups in 2019: Students who are economically disadvantaged, students with disabilities, white, and Hispanic students

According to the DESE cut point (over 50% progress toward targets), Salem is making substantial progress on accountability measures with its Hispanic/Latino students.

# 2019 Increases on Accountability Indicators

- **In 2019, SPS improved its performance, earning more points on five indicators:**
  - **Achievement**
    - Non-HS grades increased by 2 points for “all students”
    - HS grades increased by 1 point for “all students” and by 3 points for “lowest performing students”
  - **Growth**
    - HS grades increased student growth in both categories (All and Lowest Perf)
  - **HS Completion**
    - HS grades increased by 5 points in this category
  - **Additional Indicator**
    - Non-HS grades increased by 3 points on the indicator of chronic absenteeism







# District-Level MCAS Results

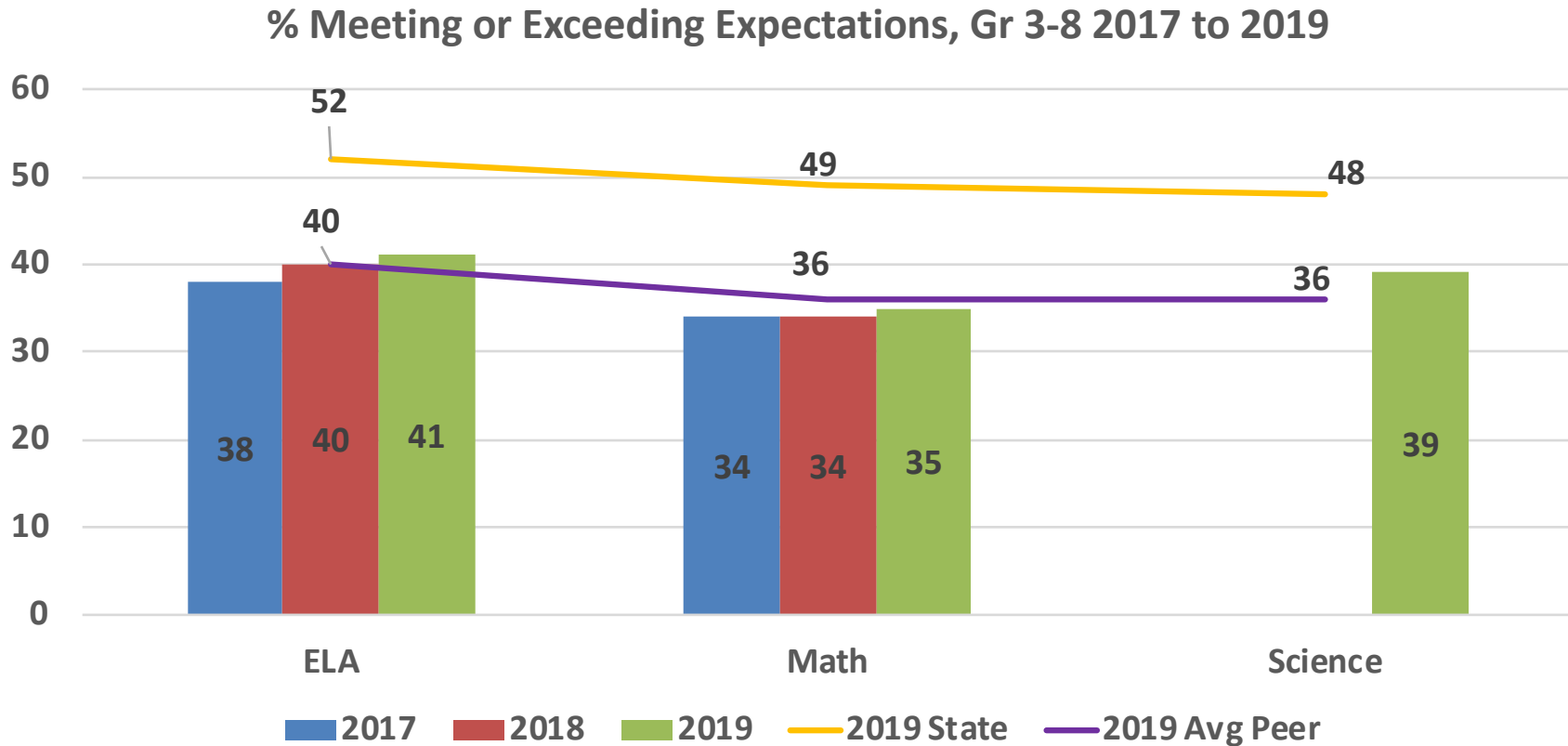
# Salem's Ten "Peer" Districts

District Name	Total Enrollment #	Eco. Dis. %	SWD %	ELL %
Dennis-Yarmouth	3025	39.9	19.5	9.5
Fitchburg	5362	60.9	24.2	15.6
Gloucester	2886	35.3	26.4	6.2
Haverhill	8047	45.5	22.9	9.5
Holyoke	5241	77.8	24.8	22.4
Leominster	6027	38.6	22.7	11.9
Pittsfield	5429	51.2	21.9	4.4
Randolph	2737	44.6	23.5	15.3
Salem	3718	48.2	23.6	12.5
Somerville	4909	39.2	20.9	20.5
West Springfield	4113	44.5	18.5	11.2



**DESE has identified the above 11 districts (that includes Salem) as demographically similar to each other. These districts are used for comparison purposes on the DESE website and in this presentation.**

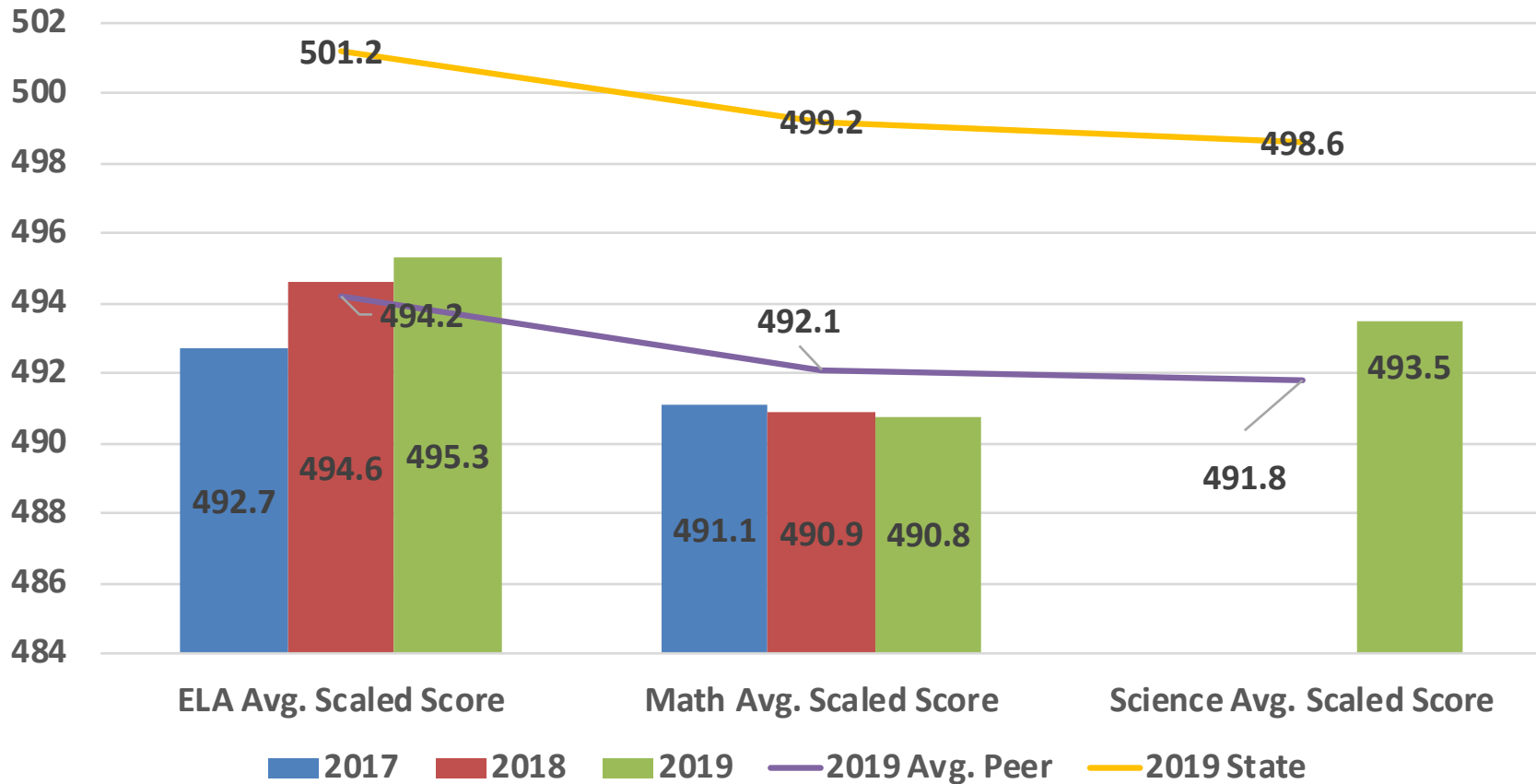
# Achievement Levels – Gr 3-8



- Salem has increased the % of students who are meeting or exceeding expectations in ELA by 3 points over the last 3 years (that's about 90 more students) and by one point in Math.
- The district is performing at or above average among our peer districts in both ELA and Science and very close in Math (a 1-point difference), but is not yet performing as well as the statewide average.

# Achievement - Avg. Scaled Scores Gr 3-8

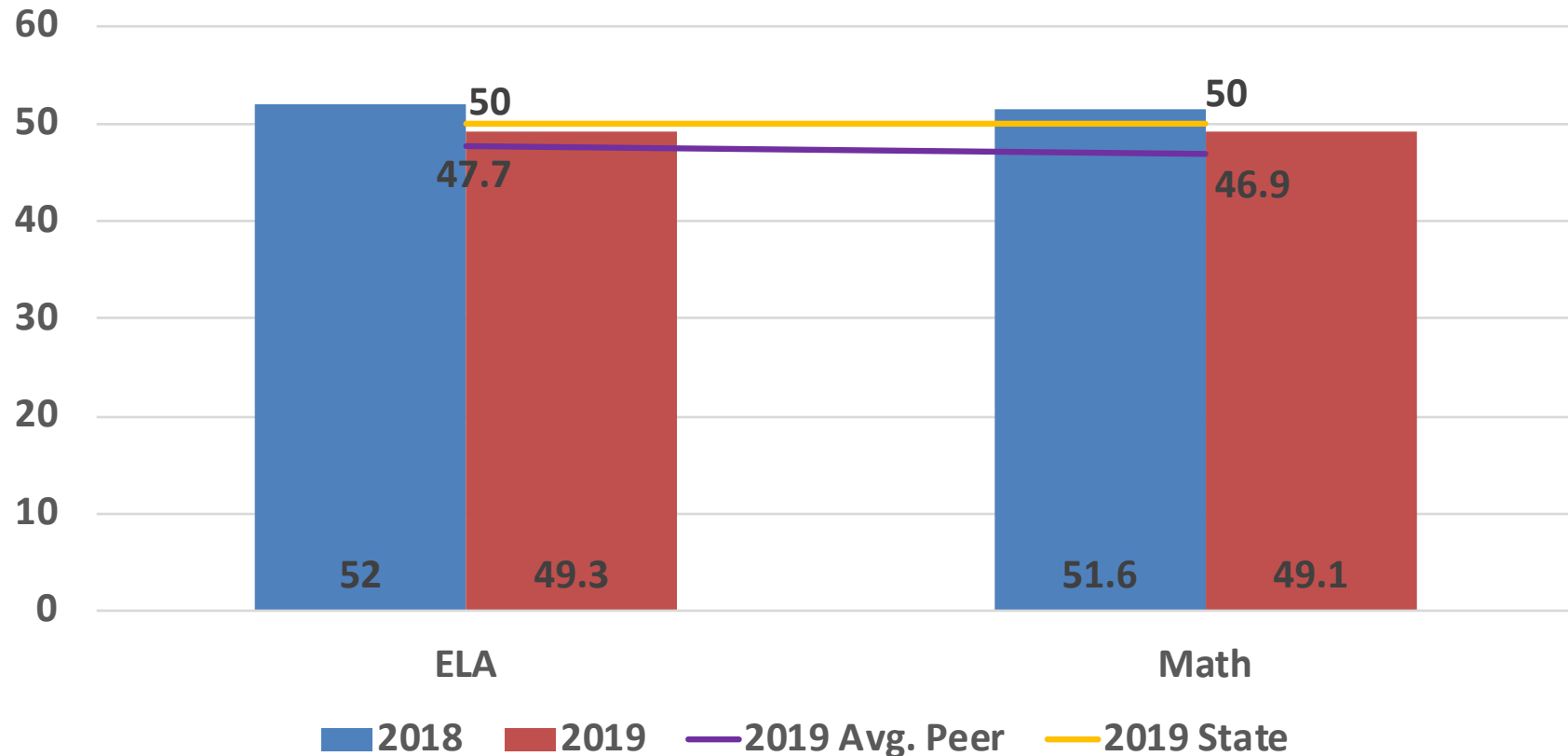
Avg. Scaled Scores w Peer and State Comparison



- In both ELA and Science, Salem is out performing its peer districts in both ELA and Science (Salem - ELA: 495.3, Science: 493.5; Peer Districts - ELA: 494.3; Science: 491.3).
- Math remains slightly lower than our peers.

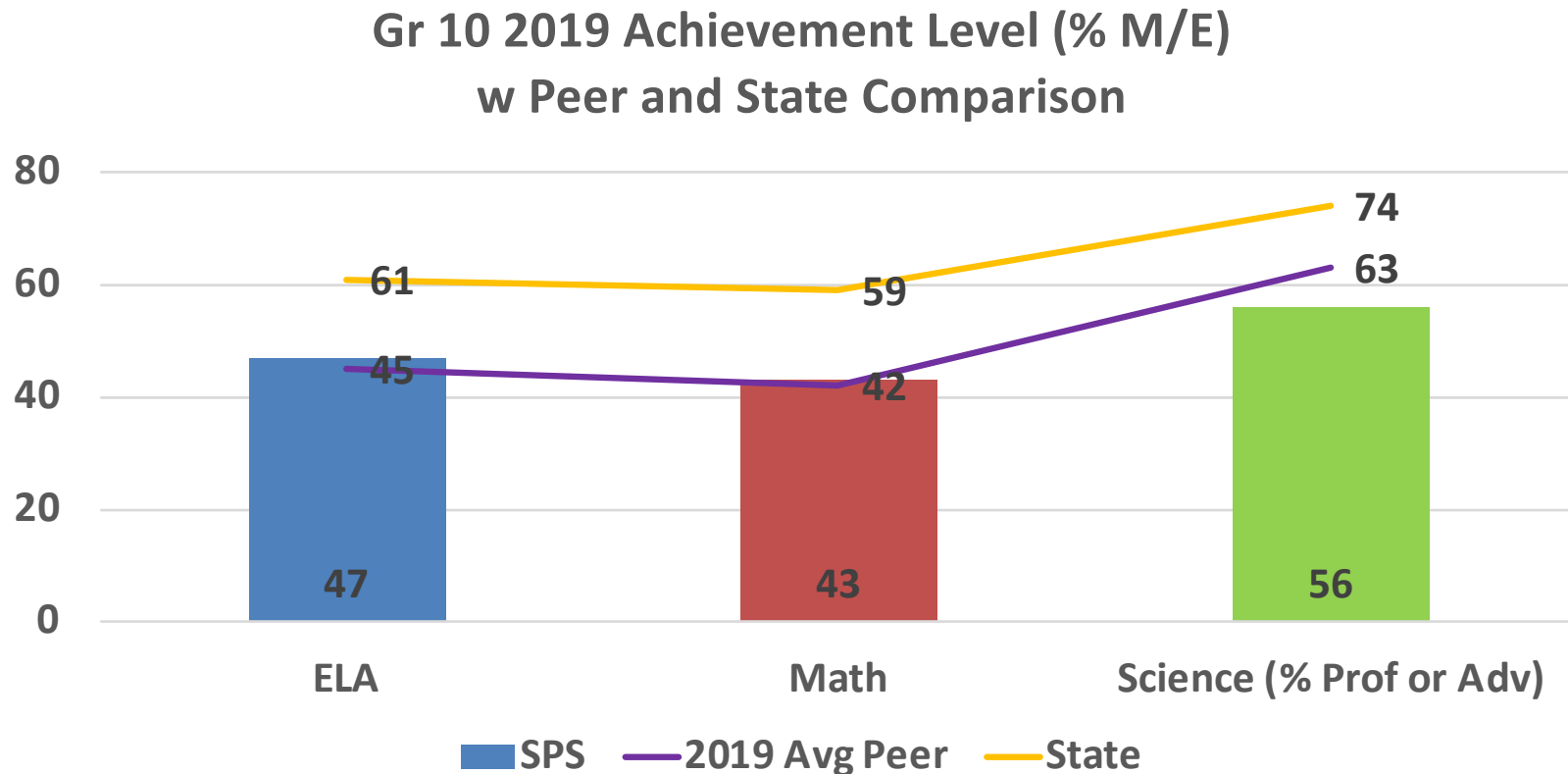
# Growth: Mean SGP (Gr 3-8)

Student Growth w Peer and State Comparison



- The growth rates for Salem in ELA and Math remain in the "moderate growth" category, but they dropped slightly in 2019 from the previous year.
- Salem's growth rates remain higher than the average growth rates of its peer districts.

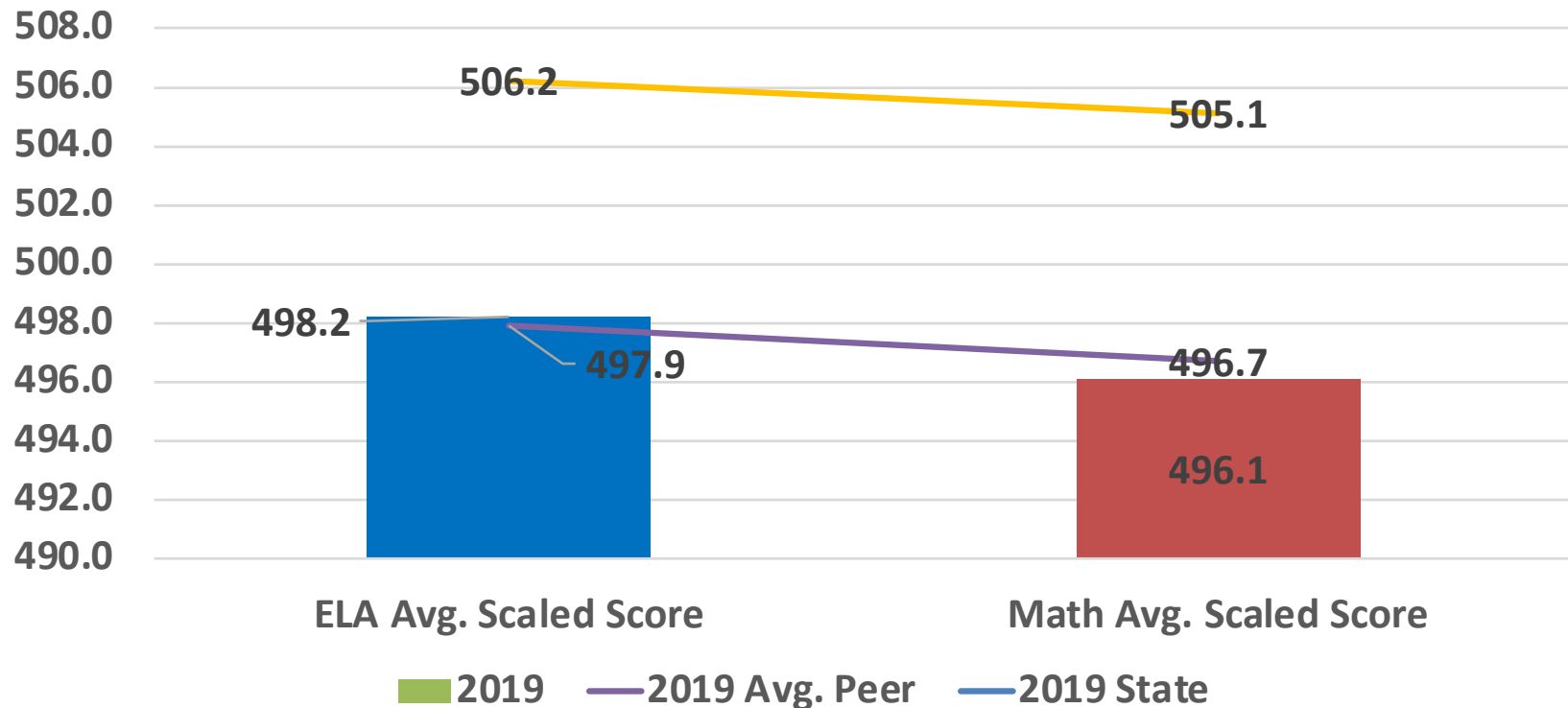
# Achievement Levels – Gr 10



- In Gr 10 ELA and Math, Salem has a higher % of students meeting or exceeding expectations than its peer districts, but neither group has yet to reach the statewide average.
- In Gr 10 Science, Salem is not performing as well as its peer districts or the state.

# Avg. Scaled Scores (Gr 10)

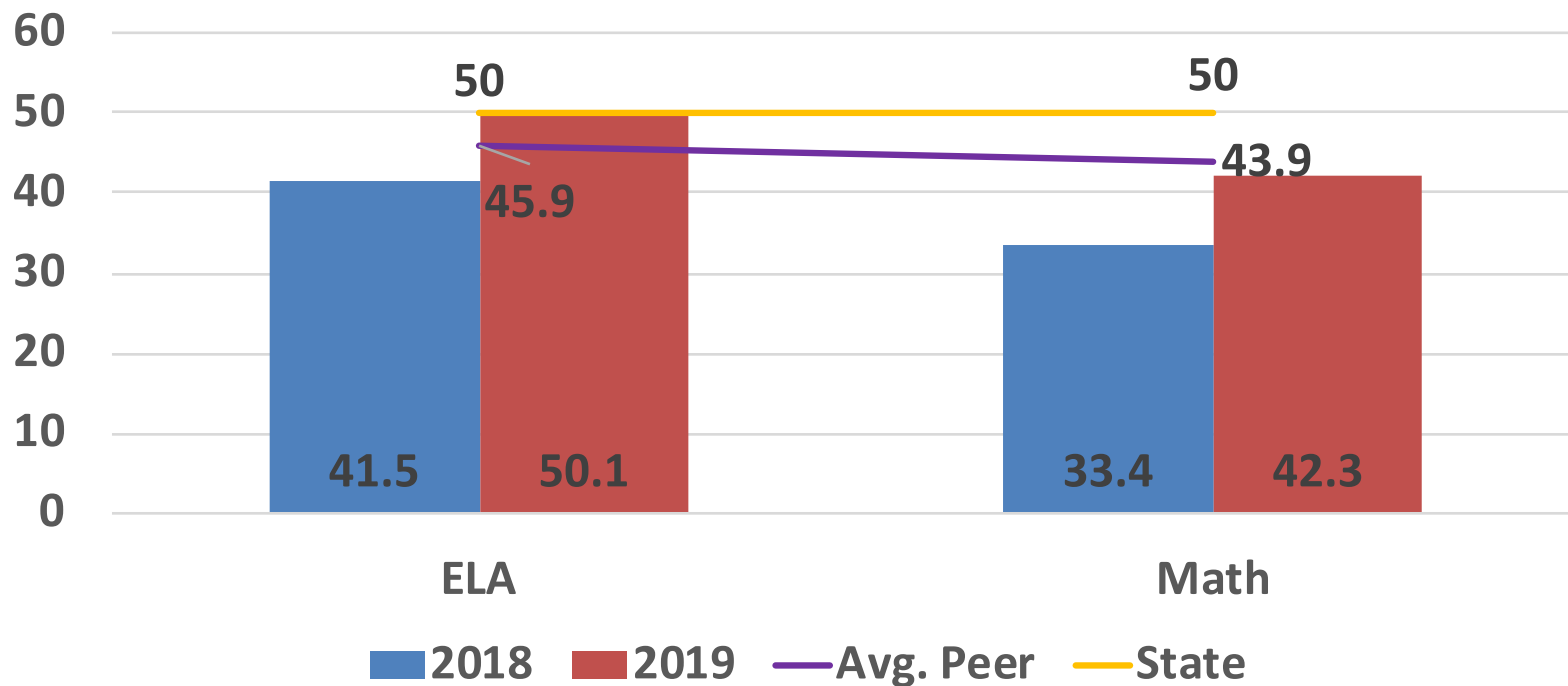
Gr 10 Avg. Scaled Scores w Peer and State Comparison



- In Gr 10 Salem is out performing its peer districts with a slightly higher average scaled score in ELA and is performing close to its peer districts in Math.
- Neither Salem nor its peer districts are scoring at the statewide average.
- *Note: 2019 was the first year of the Next Generation MCAS assessment in ELA and Math for Gr 10.*

# Growth: Mean SGP (Gr 10)

Gr 10 Student Growth, 2018 to 2019 w  
Comparisons

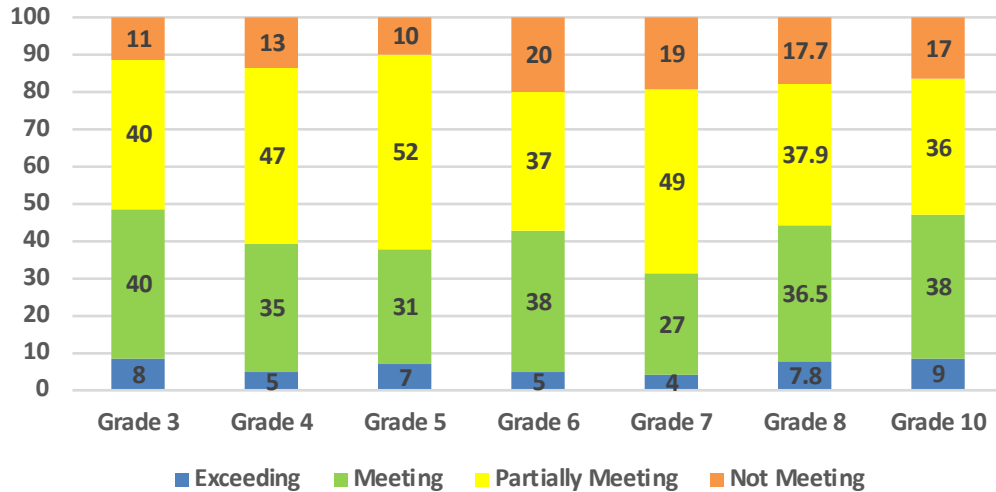


- The growth rates in Gr 10 ELA and Math have both increased since last year.
- Salem's Gr 10 ELA growth rate is 4.1 points higher than its peer districts and slightly above the statewide average.
- In Math, Salem's Gr 10 growth rate remains below its peers and statewide average.



# ELA by Grade Level

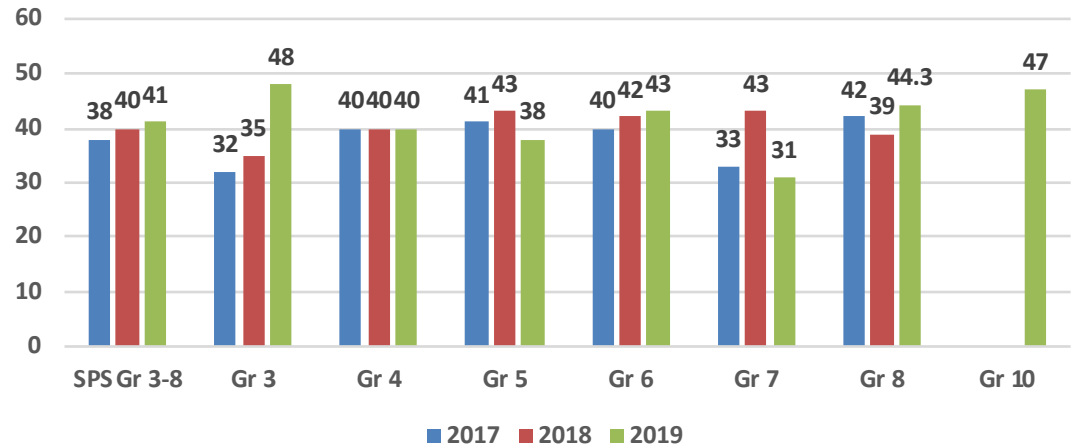
2019 ELA Achievement Levels by Grade



ELA Scaled Score 2017-2019 Change				
Grade	2017	2018	2019	Change, 2017 to 2019
Grade 3	490.8	493.5	499.4	8.6
Grade 4	493.4	497.0	495.0	1.6
Grade 5	494.8	496.9	496.2	1.4
Grade 6	494.0	495.4	493.6	-0.4
Grade 7	489.3	494.3	491.1	1.8
Grade 8	494.2	490.2	496.0	1.8

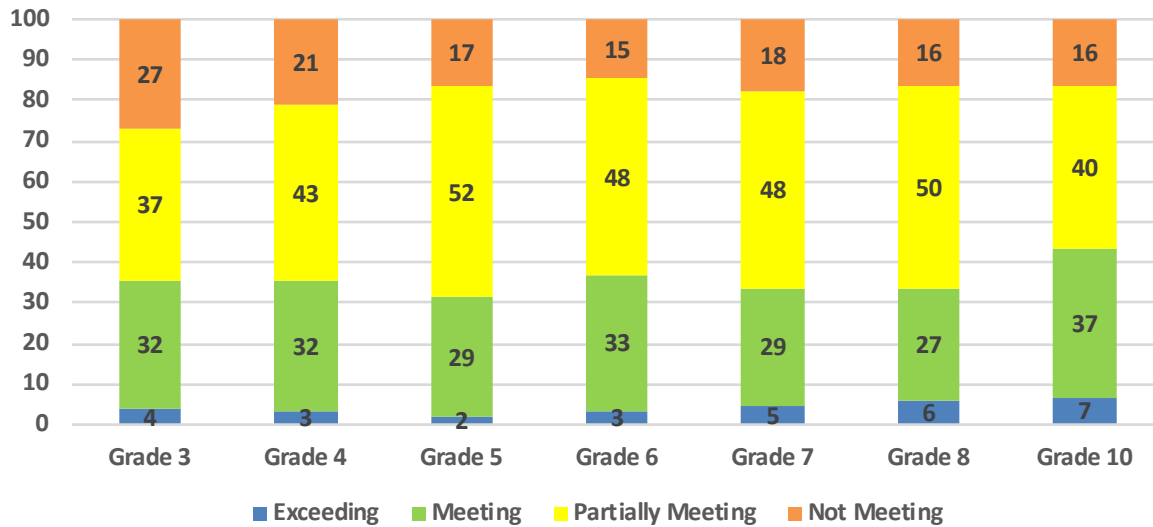
- Gr 3 ELA performance has increased significantly (on all measures) over the past 3 years.
- Gr 8 ELA performance has also increased on all measures
- ELA performance in Gr4, Gr5, Gr 6 and Gr7 is more mixed with increases in scaled scores, but flat or slight decreases in % M/E (or the reverse)

% Meeting or Exceeding Expectations, Grade Level Comparison with 2017 Baseline



# Math by Grade Level

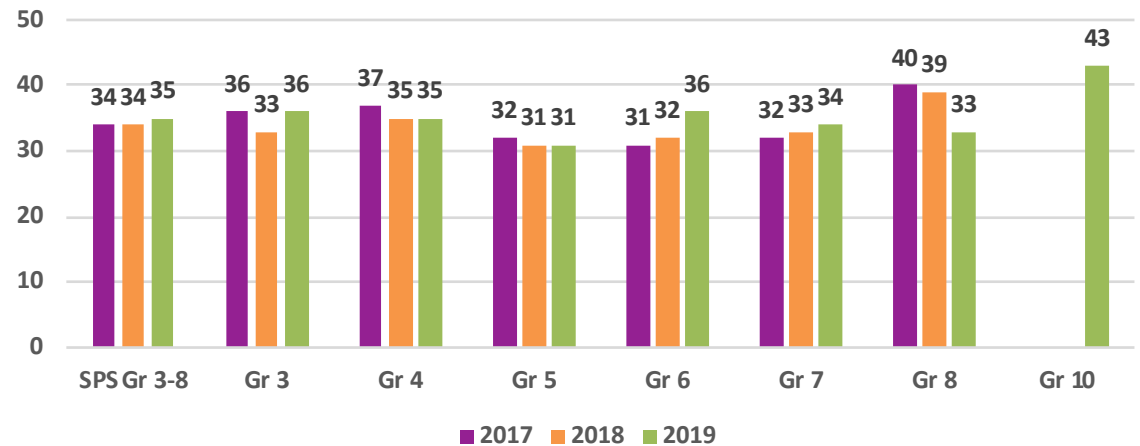
2019 Math Achievement Levels by Grade



Grade	Math Scaled Score 2017-2019 Change			Change, 2017 to 2019
	2017	2018	2019	
Grade 3	489.8	488.5	488.2	-1.6
Grade 4	490.4	491.7	490.4	0.0
Grade 5	491.6	489.6	489.6	-2.0
Grade 6	491.1	490.8	492.5	1.4
Grade 7	488.4	492.1	491.7	3.3
Grade 8	495.6	493.4	492.6	-3.0

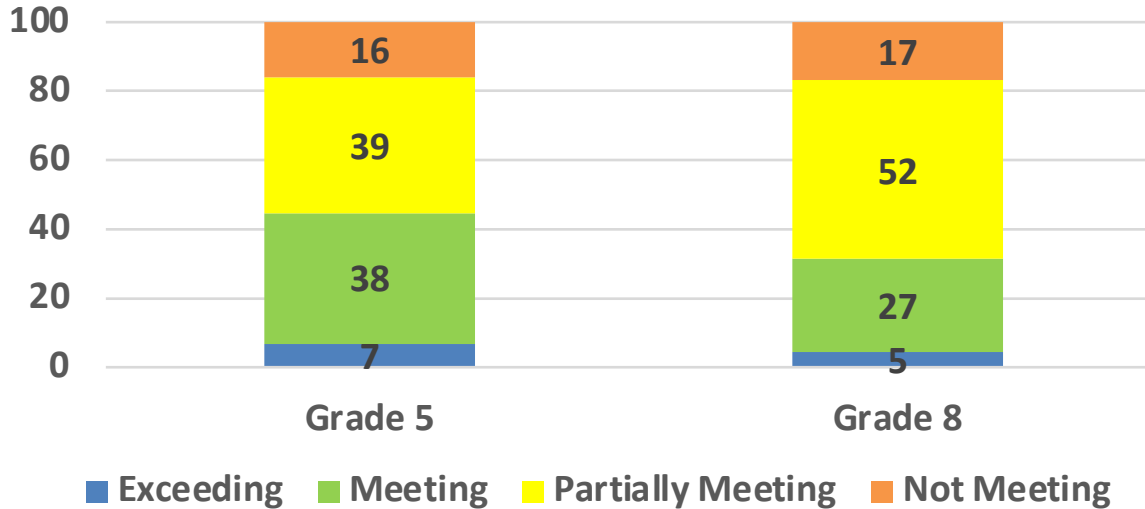
- Gr 6 and 7 Math performance has increased over the past 3 years.
- Gr 5 and 8 Math performance has declined
- In Gr 3, more students are meeting or exceeding expectations in Math, but the average scaled score has declined slightly.
- Grade 4 Math is essentially flat.

% Meeting or Exceeding in Math by Grade Level 2017 to 2019



# Science by Grade Level (Gr 5 & 8)

2019 Science Achievement Levels by Gr 5 & 8

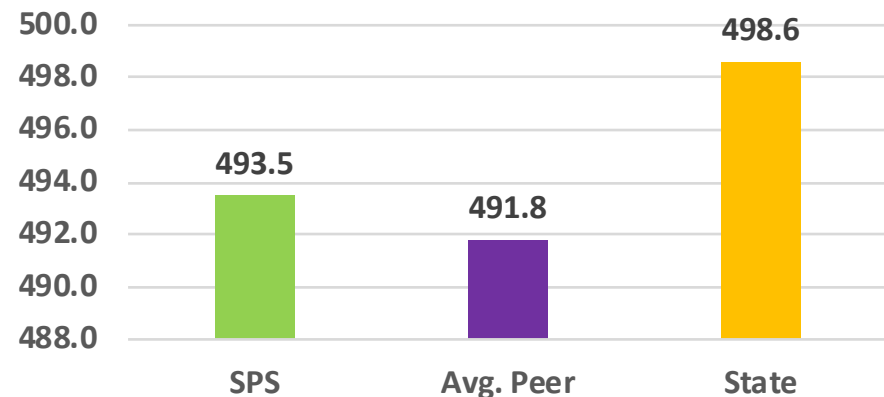


Grade	Science CPI 2017-2019 Change			Change, 2017 to 2019
	2017	2018	2019	
Grade 5	67.8	73.2	72.9	5.1
Grade 8	64.8	52.9	58.2	-6.6

- Gr 5 Science performance has increased over the past 3 years.
- Gr 8 Science CPI declined in 2018, but rose more than 6 pts in 2019
- Overall, Salem out-performed the average of its peer districts in the 2019 Gr 3-8 Next Generation Science assessments, but has not yet reached the statewide average.

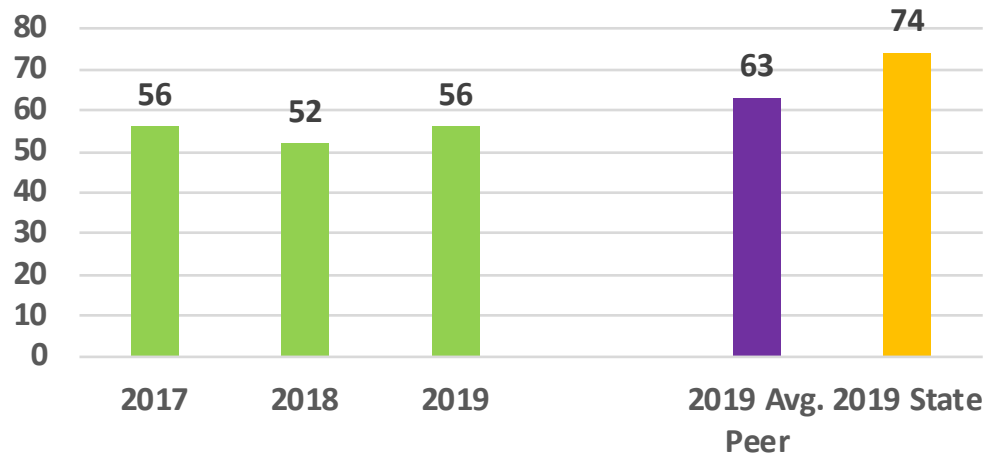
*Note: 2019 was the first year of the Next Generation Science MCAS*

2019 Gr 3-8 Science Avg Scaled Score



# Science - Grade 10

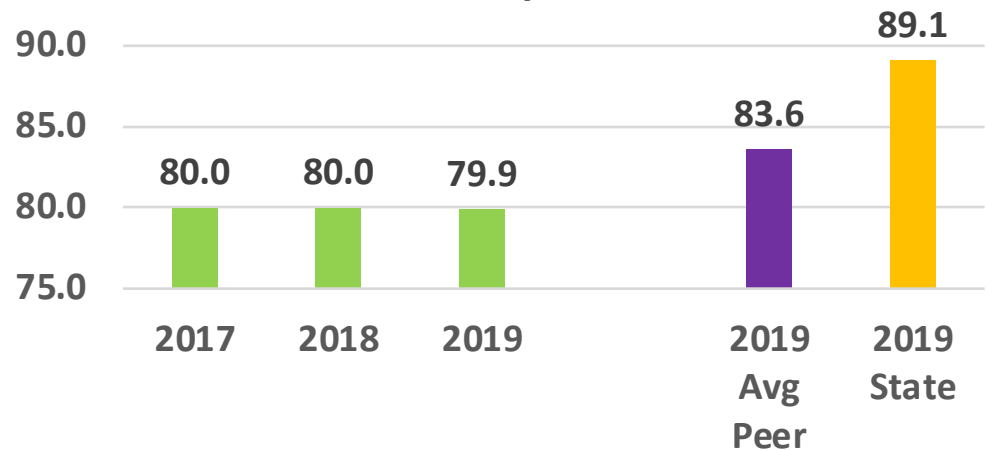
% Proficient or Advanced - Gr 10 Science, 2017-2019 with Comparisons for 2019



- Gr 10 Science performance has been relatively flat over the past 3 years.
- In 2019, peer districts, on average, had more students who were proficient or higher in science than Salem

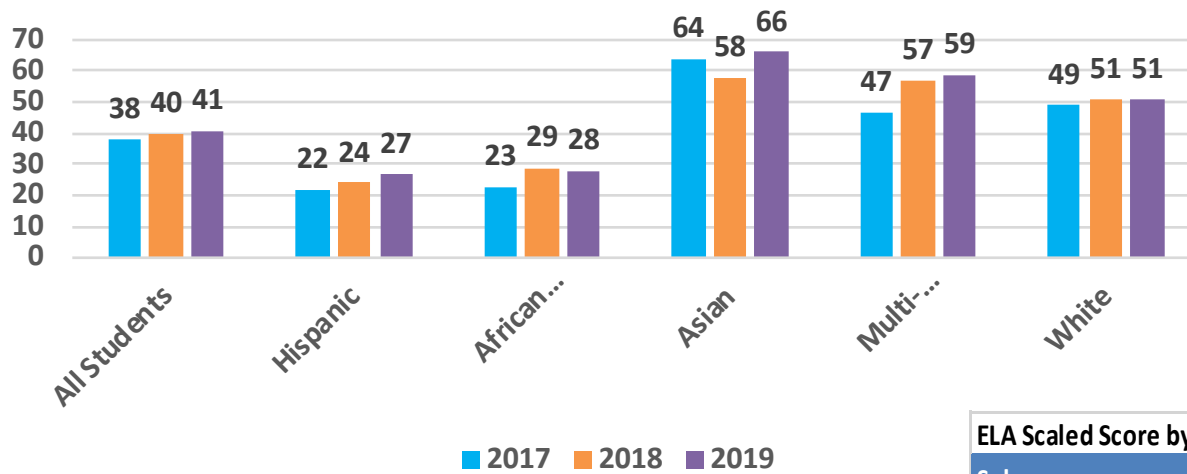
*Note: 2019 was the last year that the Legacy Science MCAS was administered in Gr 10. The 2020 Gr 10 Science assessment will be the Next Generation Science MCAS.*

Gr 10 Science Avg CPI 207 to 2019 with 2019 Comparisons



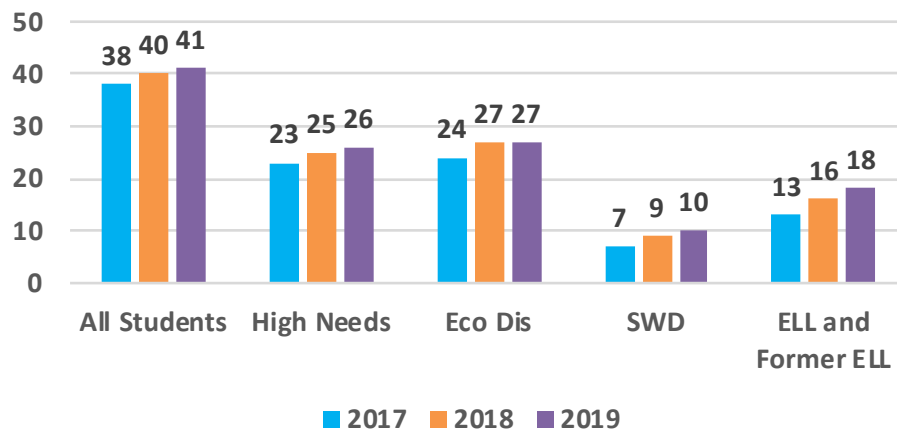
# ELA by Subgroup (Gr 3-8)

% Meeting or Exceeding Expectations by Race, 2017 to 2019



By all measures, Gr 3-8 ELA performance for all subgroups has increased over the past three years.

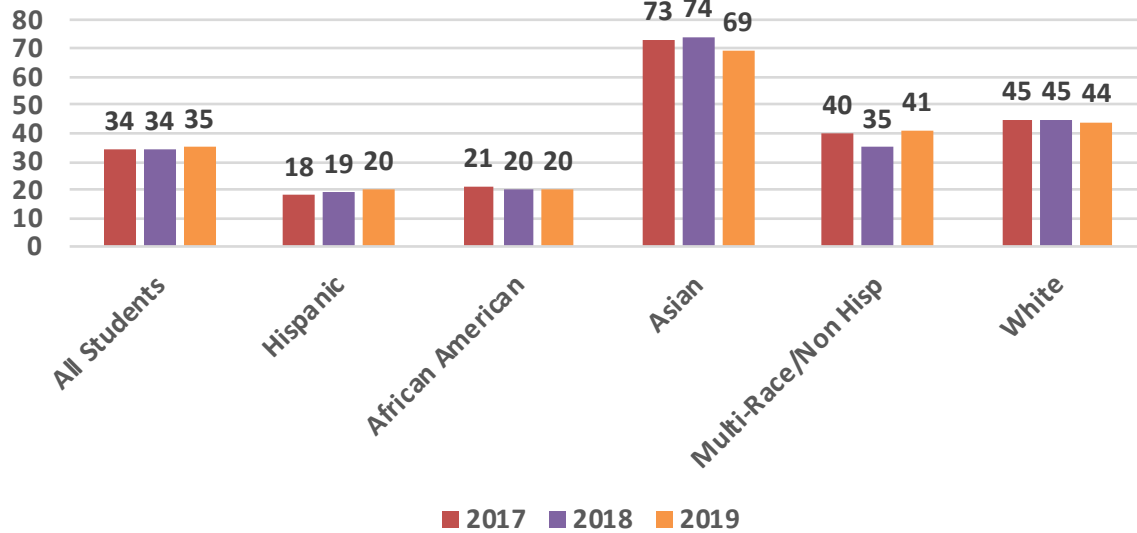
ELA % Meeting or Exceeding Expectations by Subgroup 2017 to 2019



ELA Scaled Score by Subgroup, 2017 to 2019 with Change				
Subgroup	2017	2018	2019	Change, 2017 to 2019
High Needs	484.8	487.2	487.7	2.9
Economic Disadvantage	485.8	487.7	488.4	2.6
SWD	475.5	477.4	477.8	2.3
EL and Former EL	477.5	481.3	482.1	4.6
Hispanic	484.7	486.5	488	3.3
White	498.3	500.1	501.1	2.8

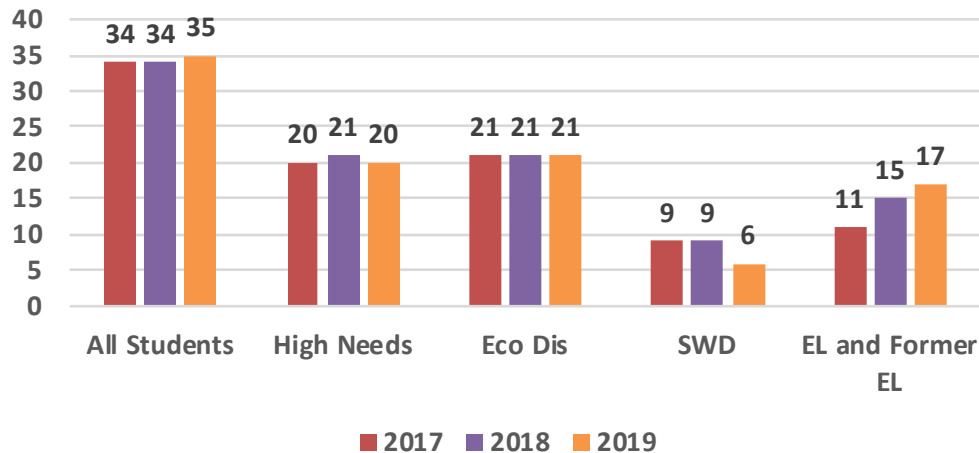
# Math by Subgroup (Gr 3-8)

% Meeting or Exceeding in Gr3-8 Math by Race, 2017 to 2019



Gr 3-8 Math performance has been relatively flat except for an increase for EL and Former EL and a modest increase for students of Hispanic origin.

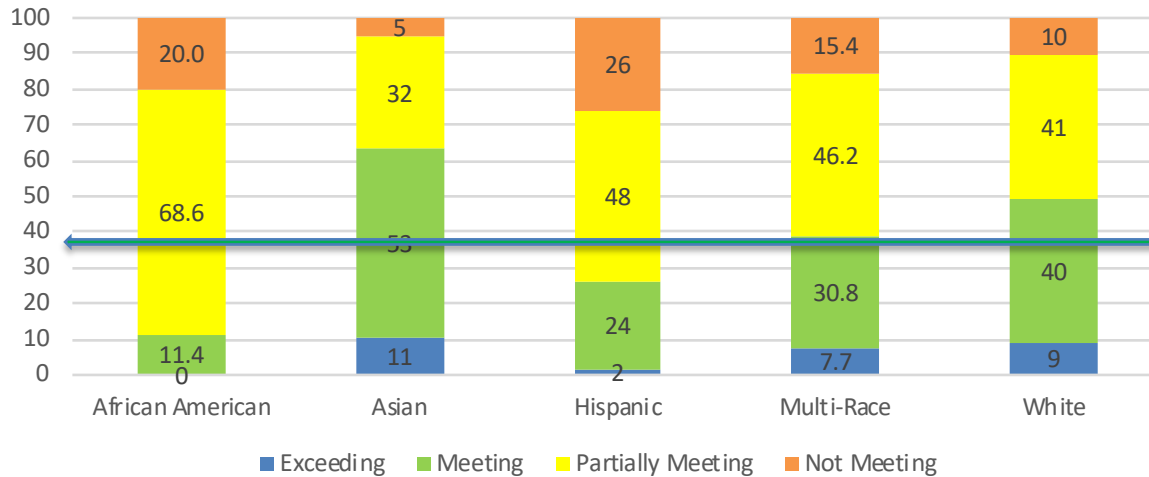
% Meeting or Exceeding in Gr 3-8 Math by Subgroup, 2017 to 2019



Math Scaled Score by Subgroup, 2017 to 2019 with Change				
Subgroup	2017	2018	2019	Change, 2017 to 2019
High Needs	482.9	484.2	483.5	0.6
Economic Disadvantage	483.7	484.1	483.5	-0.2
SWD	474.2	475.4	474.4	0.2
EL and Former EL	475.8	479.9	479.7	3.9
Hispanic	481.9	483	483	1.1
White	497.3	496.7	496.5	-0.8

# Science by Subgroup (Gr 3-8)

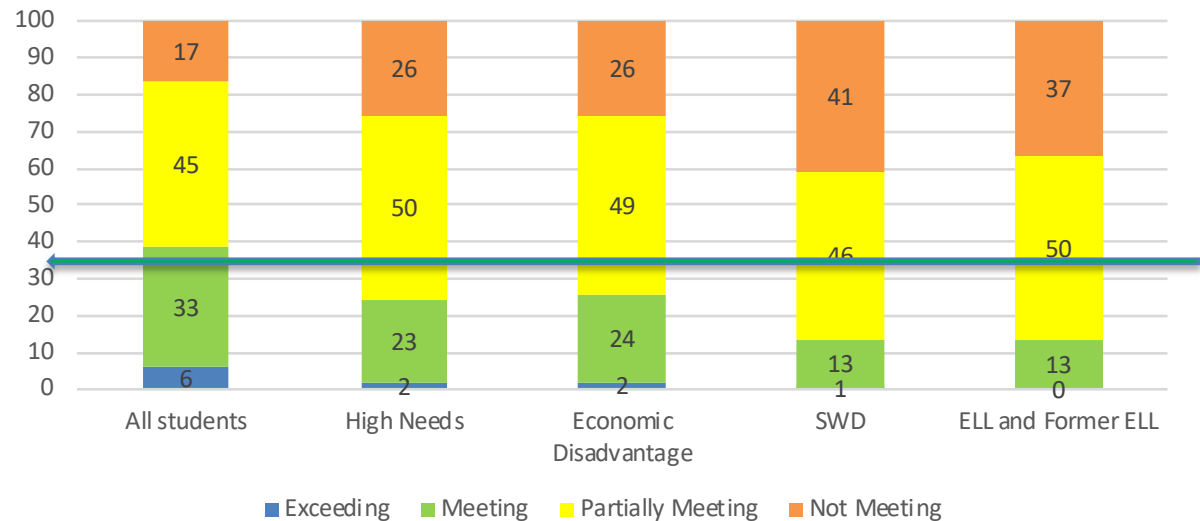
2019 Science Achievement Levels by Race:  
Grades 3-8



On average, 36% of students in Salem's peer districts are meeting or exceeding expectations on the Gr 3-8 2019 Science MCAS.

**In 2019 36% of all Salem's Gr 3-8 students are meeting or exceeding expectations in Gr 3-8 Science. Students who are Asian, White, and Multi-racial (non-Hispanic) exceeded this benchmark.**

2019 Science Achievement Levels by Subgroup:  
Grades 3-8

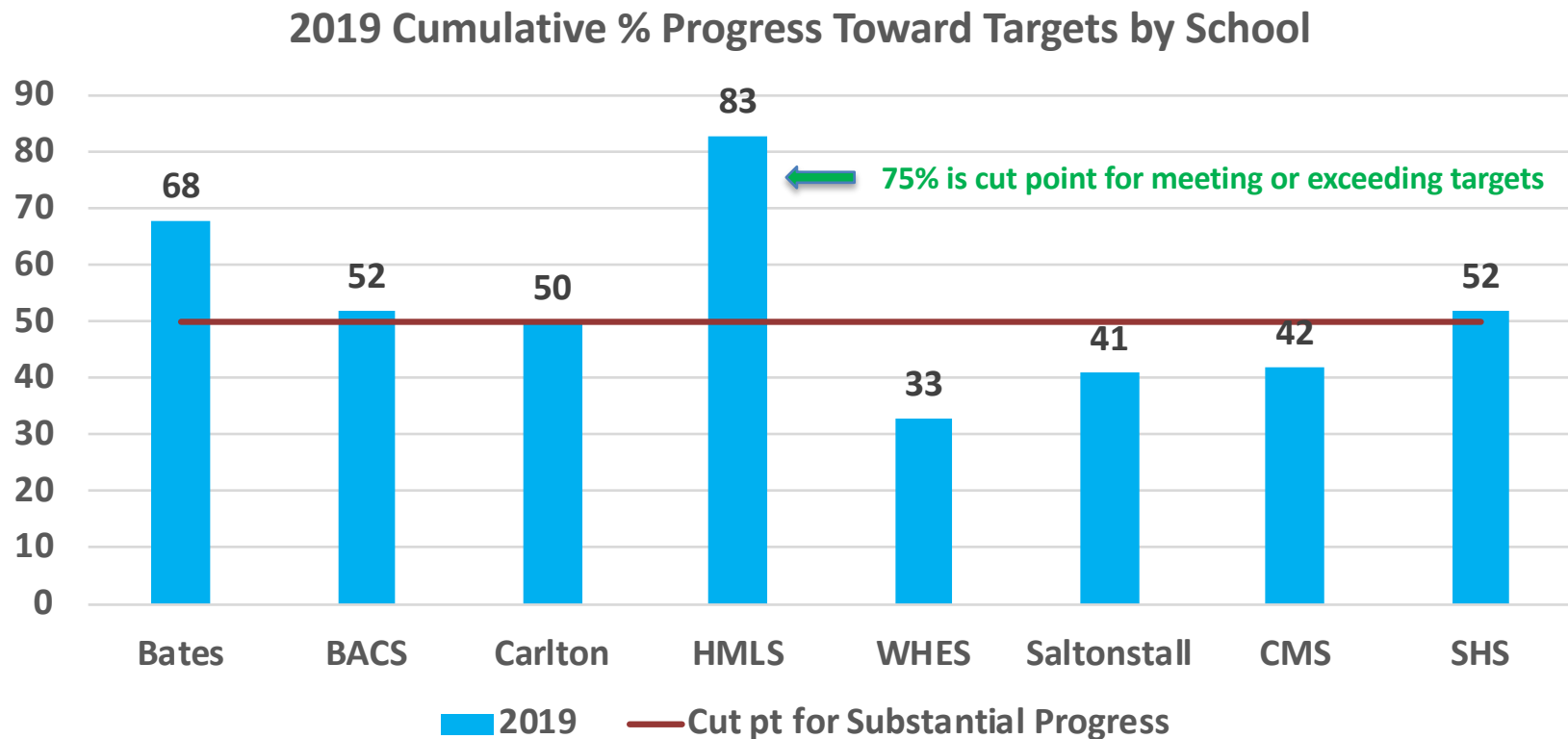




# School-Level Accountability Results



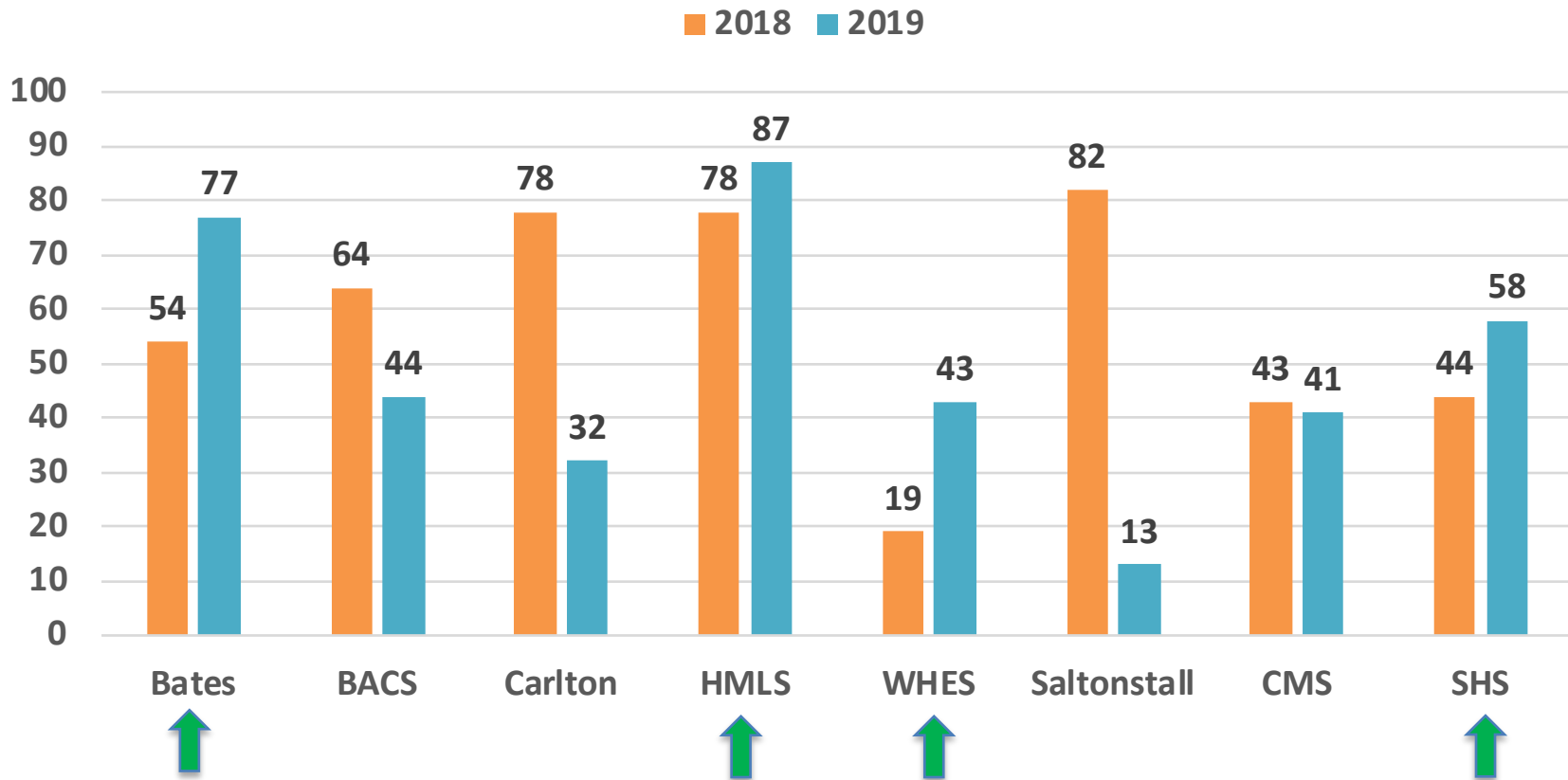
# Cumulative Progress on Targets



HMLS is “meeting or exceeding progress” on targets (scoring over 75%). Bates, BACS, SHS, and Carlton are making “substantial progress” on targets (scoring over 50%). All other schools are making “moderate progress” on their targets

# Annual Progress on Targets

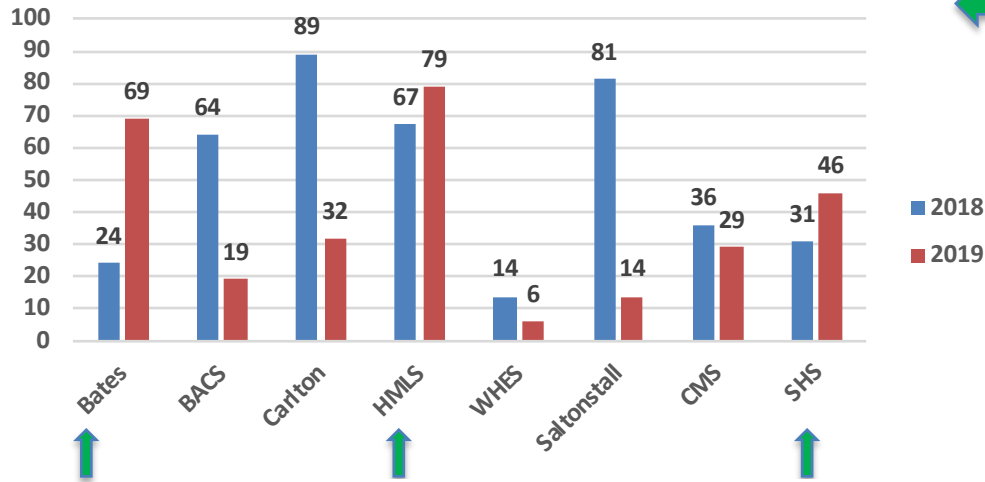
Annual % Progress Toward Targets by School, 2018-2019



Four Salem schools increased their percentage progress on targets compared with the percentage earned last year: Bates, HMLS, WHES, and SHS.

# Two Categories – All Students and Lowest Performing Students

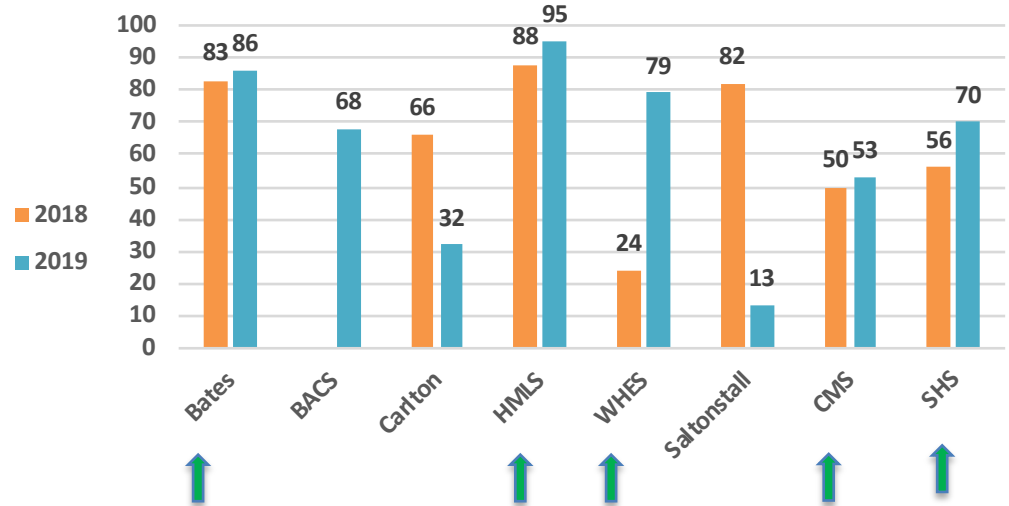
Percentage Progress Toward Targets by School - All Students, 2018 and 2019



Bates, HMLS, and SHS all increased their % progress on targets for the “All Students” category.

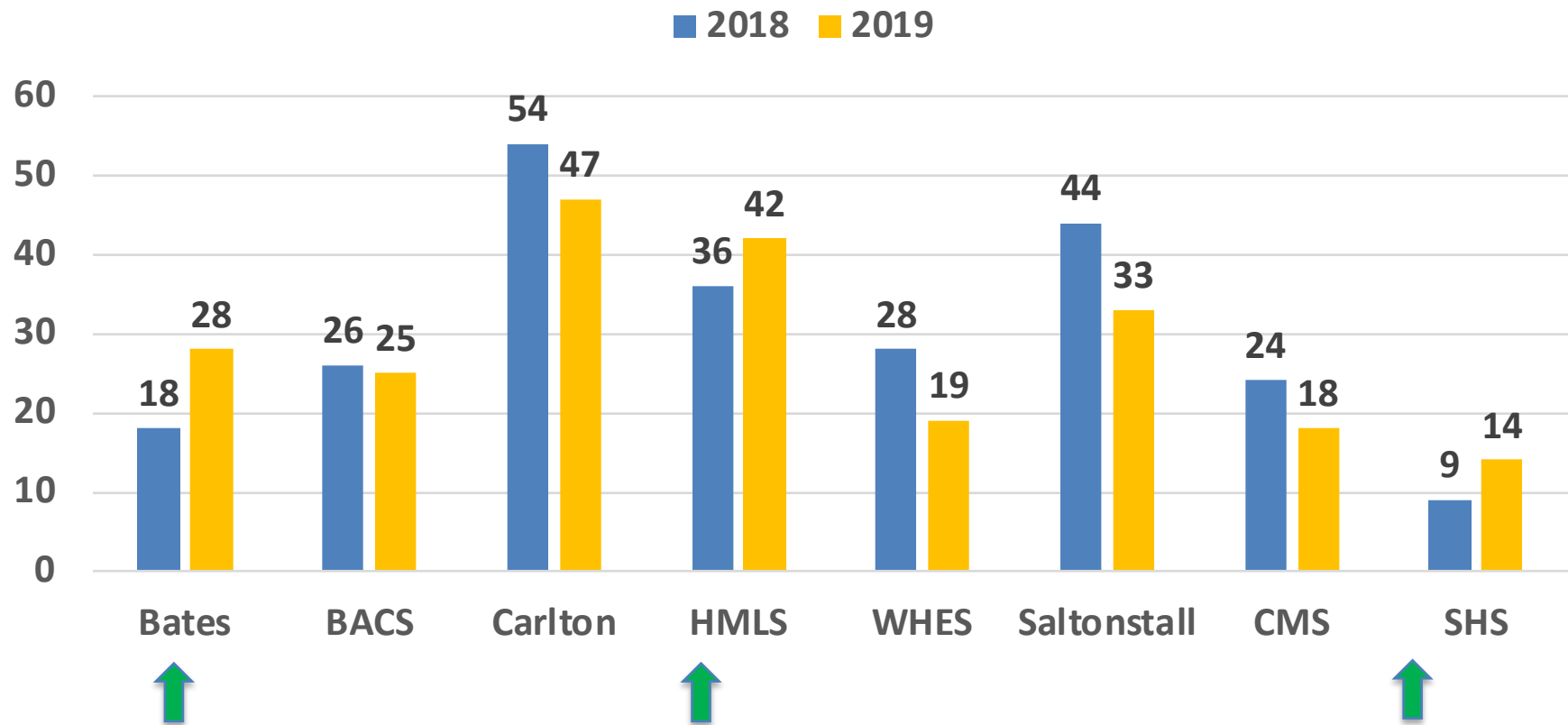
Five Salem schools increased their % progress on targets for the “Lowest Performing Students” category, with the largest increase at WHES..

% Progress Toward Targets by School, Lowest Performing Students, 2018 and 2019



# School Accountability Percentiles

School Accountability Percentiles, 2018 thru 2019



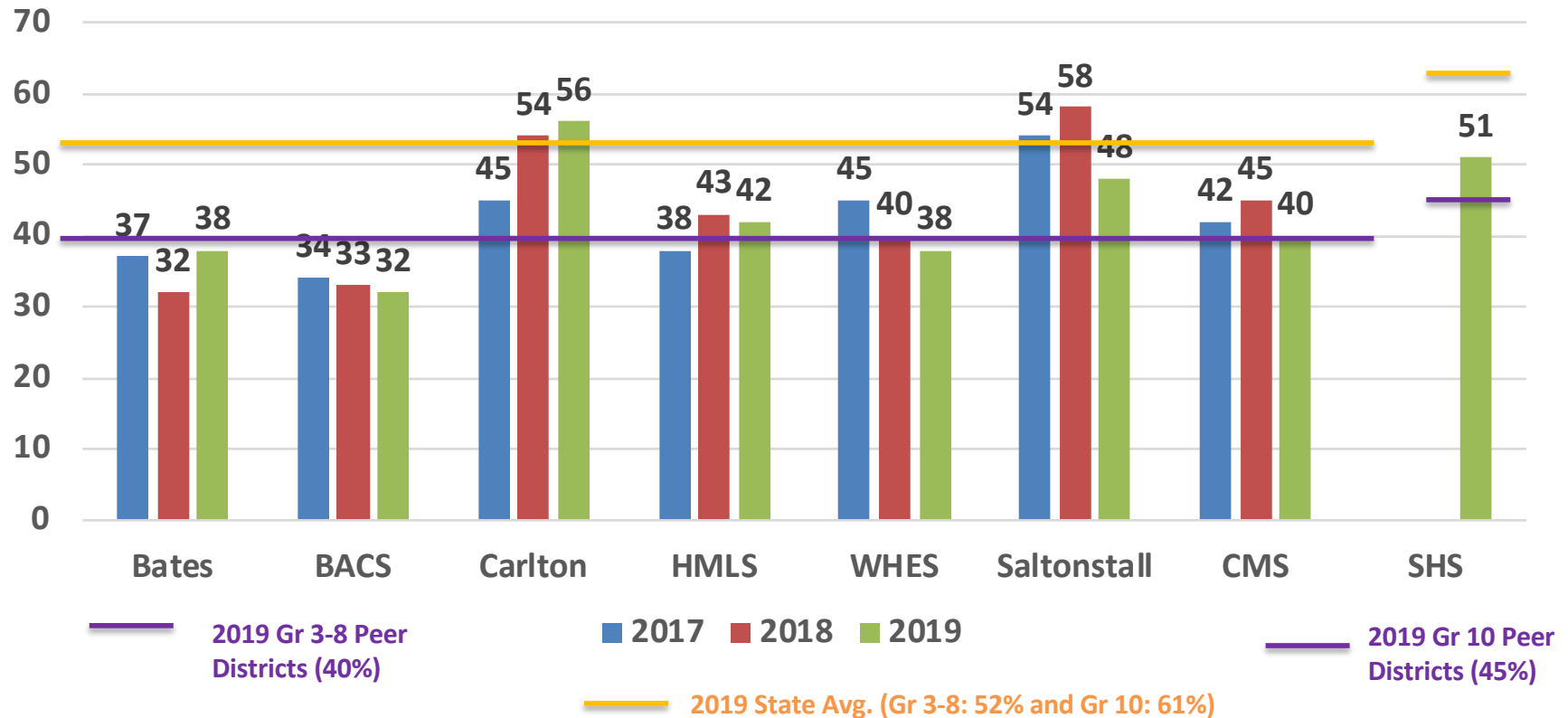
Three schools increased their accountability percentile since last year (Bates, HMLS, and SHS). The school accountability percentile compares each school against other, similar schools in the state. As of 2019, with SHS increasing to 14th percentile, Salem has no schools in the lowest 10<sup>th</sup> percentile in the state.



# MCAS Results Across Schools

# ELA Achievement Levels by School

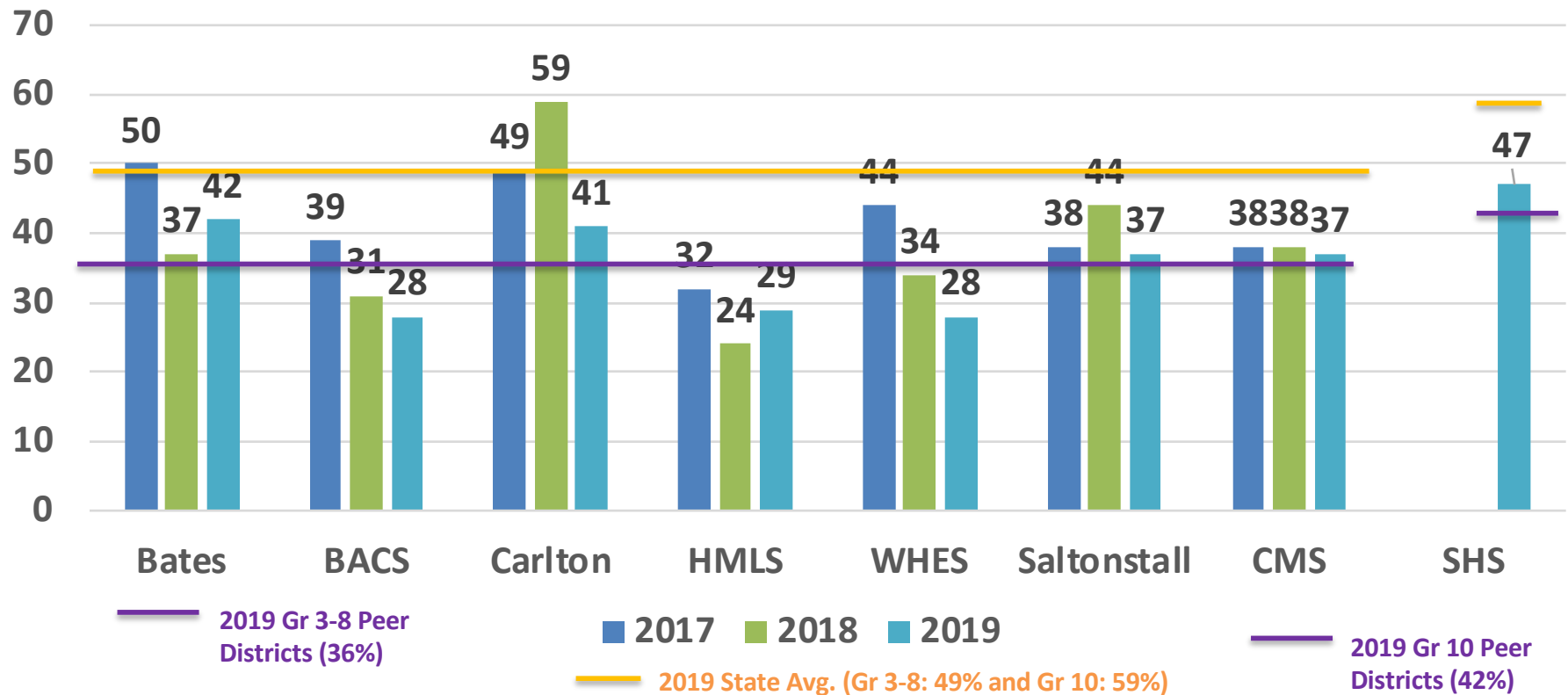
ELA % Meeting or Exceeding Expectations  
by School, 2017 to 2019



- The % of students who are meeting or exceeding expectations in Gr 3-8 ELA have increased at Bates, Carlton, and HMLS over the past three years.
- Carlton, HMLS, Saltonstall, and CMS performed as well or better than Salem’s peer districts in ELA. Carlton performed better than the state average in 2019.
- SHS performed better than Salem’s peer districts on Gr 10 ELA in 2019

# Math Achievement Levels by School

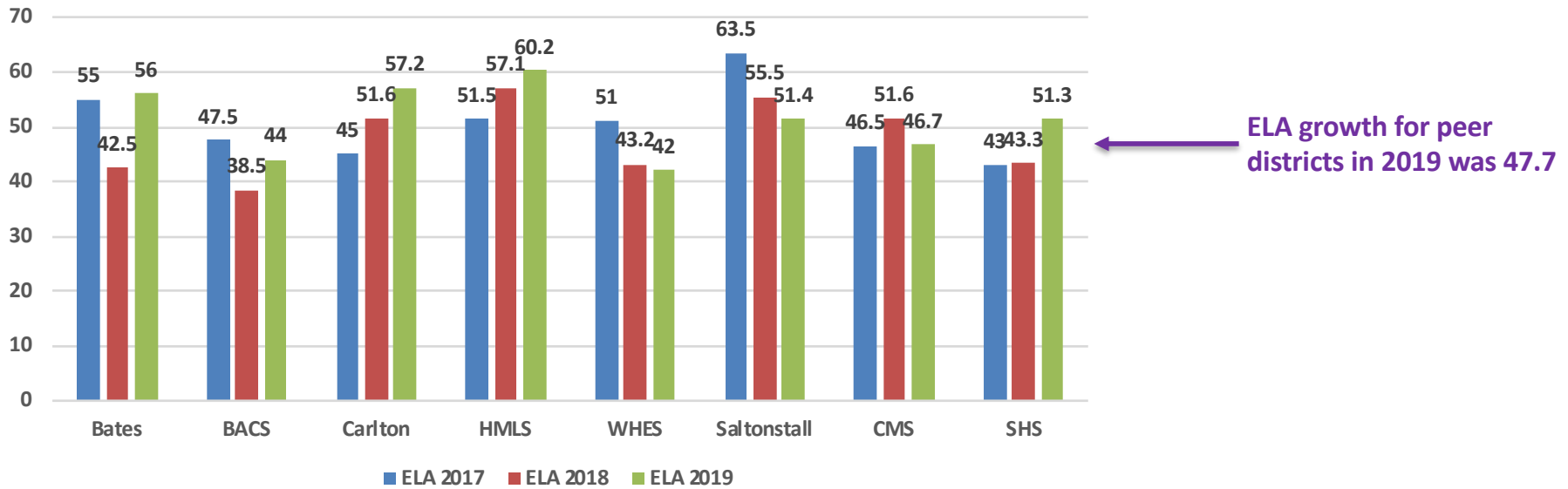
Math % Meeting or Exceeding Expectations  
by School, 2017 to 2019



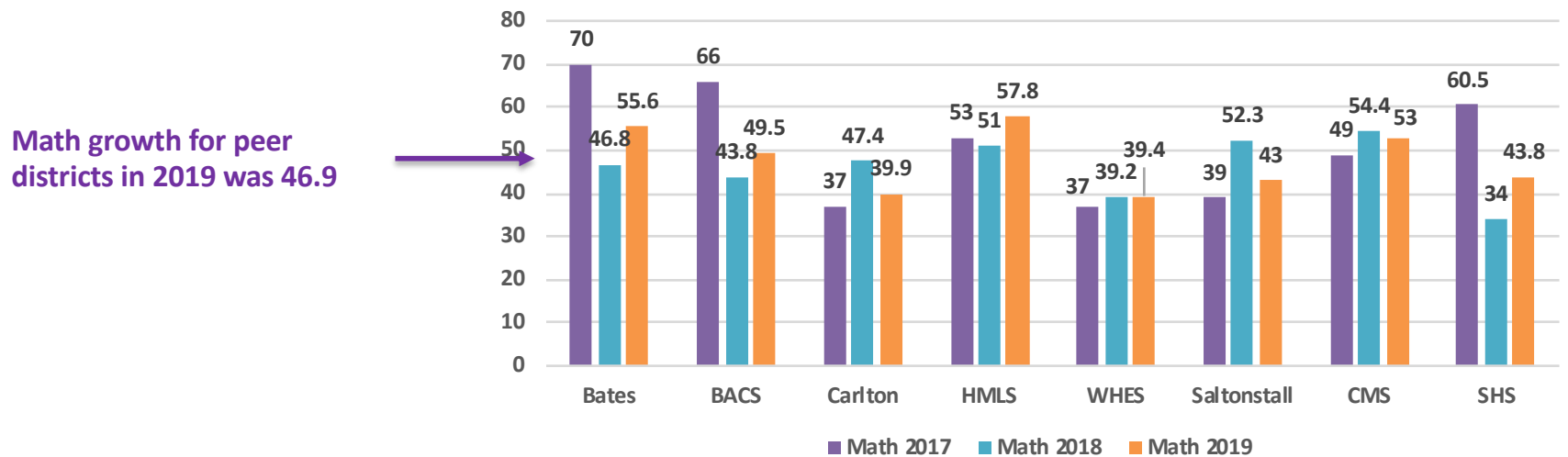
- Bates, Carlton, Saltonstall, CMS, and SHS performed better than Salem's peer districts on the 2019 ELA MCAS.

# ELA and Math Growth by School

ELA Growth by School, 2017 to 2019



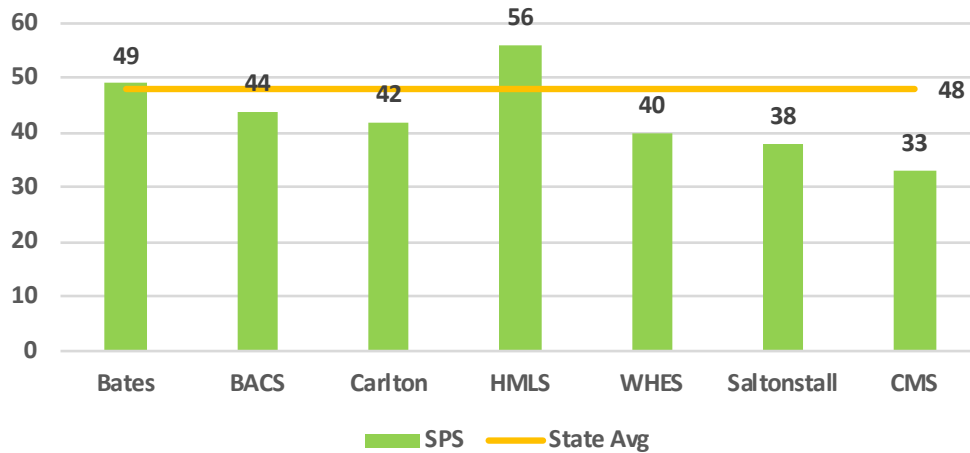
Math Growth by School, 2017 to 2019





# Science Achievement by School (Gr 3-8)

2019 Science - % Meets or Exceeds Expectations  
School v State Avg.



On the 2019 Science MCAS 36% of students in peer districts are meeting or exceeding expectations

The avg. scaled score for peer districts in 2019 for Science was 491.8

2019 Science - Avg. Scaled Scores by School

