

# 2019 Arlington Public Schools MCAS Report

School Committee Presentation

Thursday October 24, 2019

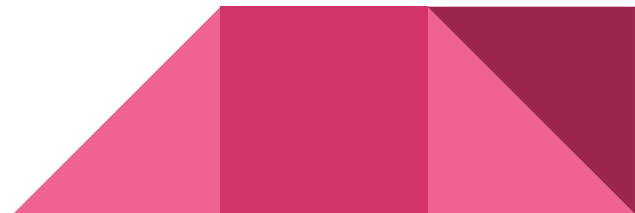
Presenters:


Dr. Roderick MacNeal, Jr., Assistant Superintendent

Ms. Paula O'Sullivan, District Data Coach

# Objectives

- Responses to questions from October 10 presentation
- Review achievement levels
- Review student growth percentiles
- Share subgroup results
- Questions/Comments





# Responses to questions from October 10

# Responses to questions from Oct 10

- 1.) What are the goals and criteria used to determine accountability levels for schools?
- 2.) Why did the state incorporate a new accountability system?
- 3.) Was there an increase in the percentage of 10th grade students failing the ELA and Math Next Generation MCAS when compared to the Legacy MCAS?



# Goals of the New Accountability System

- **Additional accountability indicators**
  - Provide information about school performance & student opportunities beyond test scores
- **Normative & criterion-referenced components**
  - Accountability percentiles & progress toward targets
- **Focus on raising the performance of each school's lowest performing students**
  - In addition to the performance of the school as a whole
- **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 the Department
- **Districts classified based on district-level data**
  - No longer based on the performance of a district's lowest performing school

# Accountability Indicators for Non High Schools

Indicator	Measure
Achievement	<ul style="list-style-type: none"><li>English language arts (ELA) average composite scaled score</li><li>Math average composite scaled score</li><li>Science Composite Performance Index (CPI)</li></ul>
Student Growth	<ul style="list-style-type: none"><li>ELA mean student growth percentile (SGP)</li><li>Math mean SGP</li></ul>
English Language Proficiency	<ul style="list-style-type: none"><li>Progress made by students towards attaining English language proficiency (percentage of students in grades 1-8 meeting annual targets required in order to attain English proficiency in six years)</li></ul>
Additional Indicator(s)	<ul style="list-style-type: none"><li>Chronic absenteeism (percentage of students in grades 1-8 missing 10 percent or more of their days in membership)</li></ul>

# Weighting of the Accountability Indicators for Non High Schools

Indicator	Measures	Weighting (3:1)	
		With EL	No EL
Achievement	<ul style="list-style-type: none"><li>• ELA, math, &amp; science achievement values</li></ul>	60%	67.5%
Student Growth	<ul style="list-style-type: none"><li>• ELA &amp; math SGPs</li></ul>	20%	22.5%
English Language Proficiency	<ul style="list-style-type: none"><li>• Percent of ELs making progress towards attaining English language proficiency</li></ul>	10%	
Additional Indicators	<ul style="list-style-type: none"><li>• Chronic absenteeism rate</li></ul>	10%	10%

# Accountability Indicators for High Schools

Indicator	Measure
Achievement	<ul style="list-style-type: none"><li>English language arts (ELA) Composite Performance Index (CPI)</li><li>Math CPI</li><li>Science CPI</li></ul>
Student Growth	<ul style="list-style-type: none"><li>ELA mean student growth percentile (SGP)</li><li>Math mean SGP</li></ul>
High School Completion	<ul style="list-style-type: none"><li>Four-year cohort graduation rate</li><li>Extended engagement rate (five-year cohort graduation rate plus the percentage of students still enrolled)</li><li>Annual dropout rate</li></ul>
English Language Proficiency	<ul style="list-style-type: none"><li>Progress made by students towards attaining English language proficiency (percentage of students in grades 9-12 meeting annual targets required in order to attain English proficiency in six years)</li></ul>
Additional Indicator(s)	<ul style="list-style-type: none"><li>Chronic absenteeism (percentage of students in grades 9-12 missing 10 percent or more of their days in membership)</li><li>Percentage of 11<sup>th</sup> &amp; 12<sup>th</sup> graders completing at least one advanced course (Advanced Placement, International Baccalaureate, Project Lead the Way, dual enrollment for credit, Ch. 74-approved voc/tech cooperatives &amp; articulation agreement courses, &amp;/or other rigorous courses)</li></ul>



# Weighting of the Accountability Indicators for High Schools

Indicator	Measures	Weighting (3:1)	
		With EL	No EL
Achievement	<ul style="list-style-type: none"> <li>• ELA, math, &amp; science CPIs</li> </ul>	40%	47.5%
Student Growth	<ul style="list-style-type: none"> <li>• ELA &amp; math SGPs</li> </ul>	20%	22.5%
High School Completion	<ul style="list-style-type: none"> <li>• Four-year cohort graduation rate</li> <li>• Extended engagement rate</li> <li>• Annual dropout rate</li> </ul>	20%	20%
English Language Proficiency	<ul style="list-style-type: none"> <li>• Percent of ELs making progress towards attaining English language proficiency</li> </ul>	10%	
Additional Indicators	<ul style="list-style-type: none"> <li>• Chronic absenteeism rate</li> <li>• Advanced coursework completion rate</li> </ul>	10%	10%

# Percentage of 10th Grade students Warning/Failing Not Meeting for ELA

	<b>2017 District</b>	<b>2017 State</b>	<b>2018 District</b>	<b>2018 State</b>	<b>2019 District</b>	<b>2019 State</b>
<b>Warning/ Failing</b>	1%	3%	1%	3%		
<b>Not Meeting</b>					1%	8%

# Percentage of 10th Grade Students in Warning/Failing/Not Meeting for Math

	<b>2017 District</b>	<b>2017 State</b>	<b>2018 District</b>	<b>2018 State</b>	<b>2019 District</b>	<b>2019 State</b>
<b>Warning Failing</b>	3%	8%	3%	8%		
<b>Not Meeting</b>					4%	9%

# Next Generation Achievement Levels

## **Exceeding Expectations**

A student who performed at this level exceeded grade-level expectations by demonstrating mastery of the subject matter.

## **Meeting Expectations**

A student who performed at this level met grade-level expectations and is academically on track to succeed in the current grade in this subject.

## **Partially Meeting Expectations**

A student who performed at this level partially met grade-level expectations in this subject. The school, in consultation with the student's parent/guardian, should consider whether the student needs additional academic assistance to succeed in this subject.

## **Not Meeting Expectations**

A student who performed at this level did not meet grade-level expectations in this subject. The school, in consultation with the student's parent/guardian, should determine the coordinated academic assistance and/or additional instruction the student needs to succeed in this subject.

# Student Growth Percentiles (SGP)

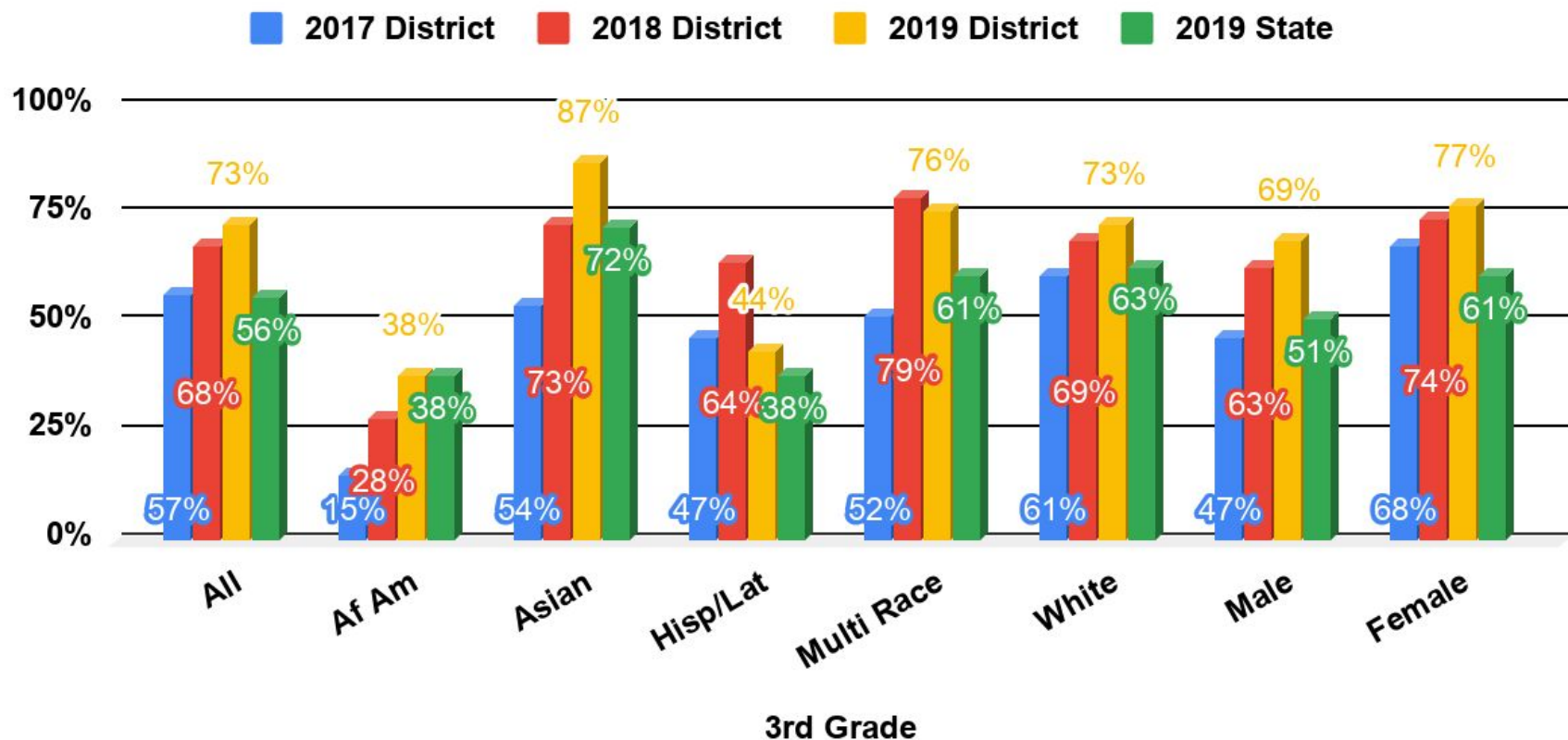
SGPs are percentiles (ranging from 1 to 99) calculated by comparing one student's history of MCAS scores to the scores of all the other students in the state with a similar history of MCAS scores. We refer to this group of all other students with similar score histories as a student's *academic peers*. In simple terms, students earning high growth percentiles answered more questions correctly on the spring 2010 MCAS test than their academic peers; conversely, students earning low growth percentiles answered fewer questions correctly than their academic peers.



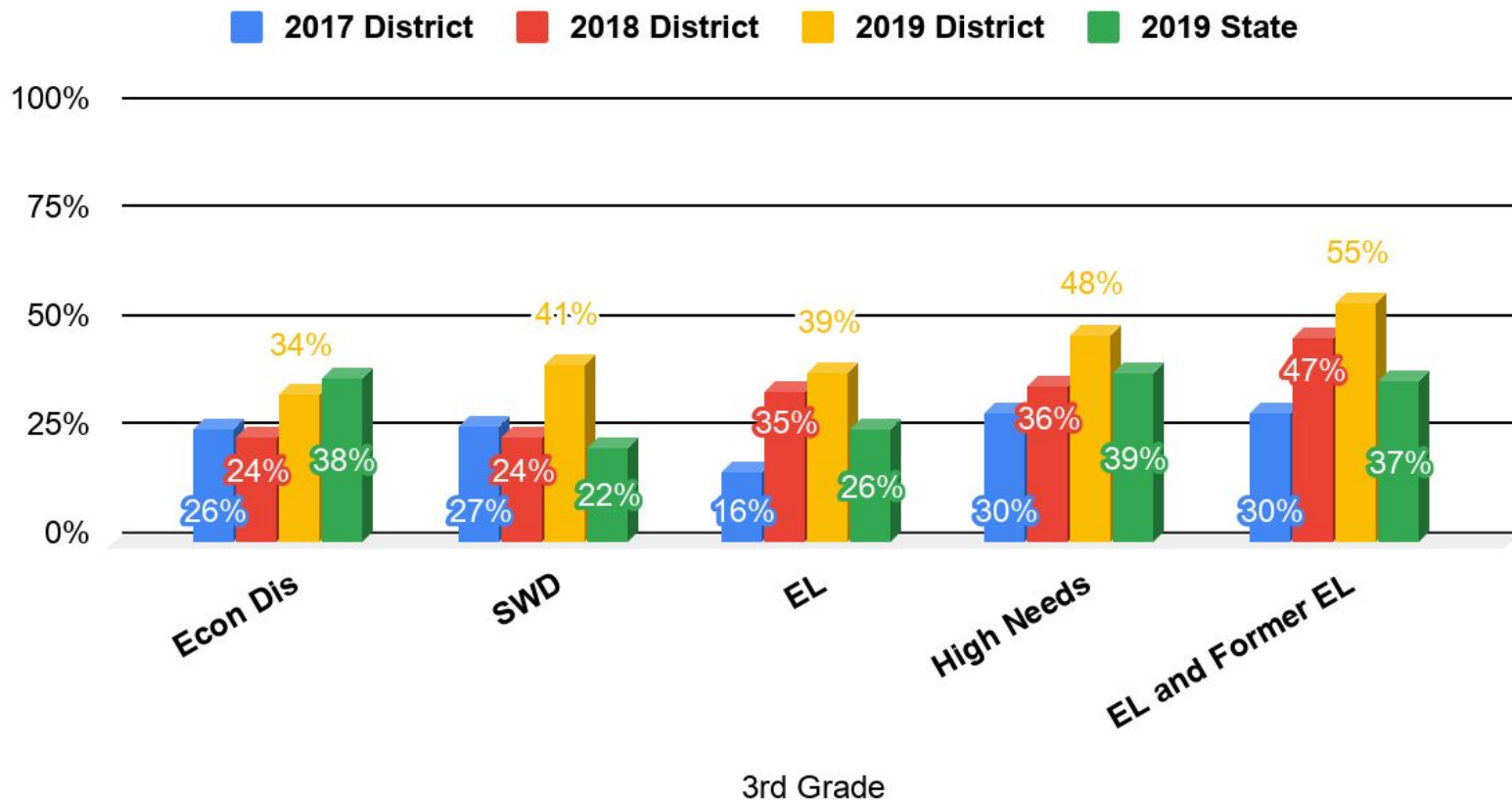


# ELA Subgroup Achievement Results

# 3rd Grade ELA Race/Ethnicity/Gender Meeting/Exceeding Results

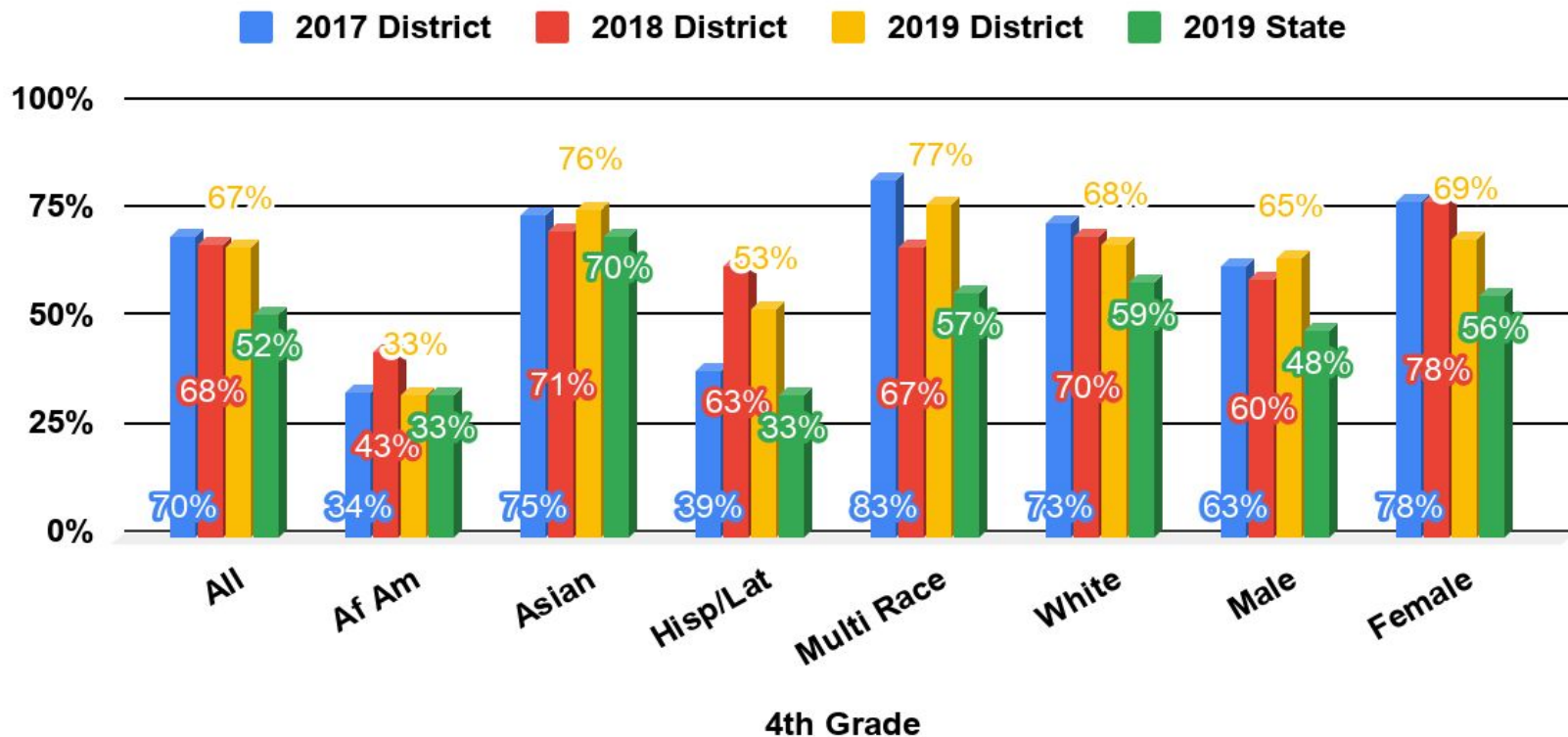


# 3rd Grade ELA Subgroup Meeting/Exceeding Results

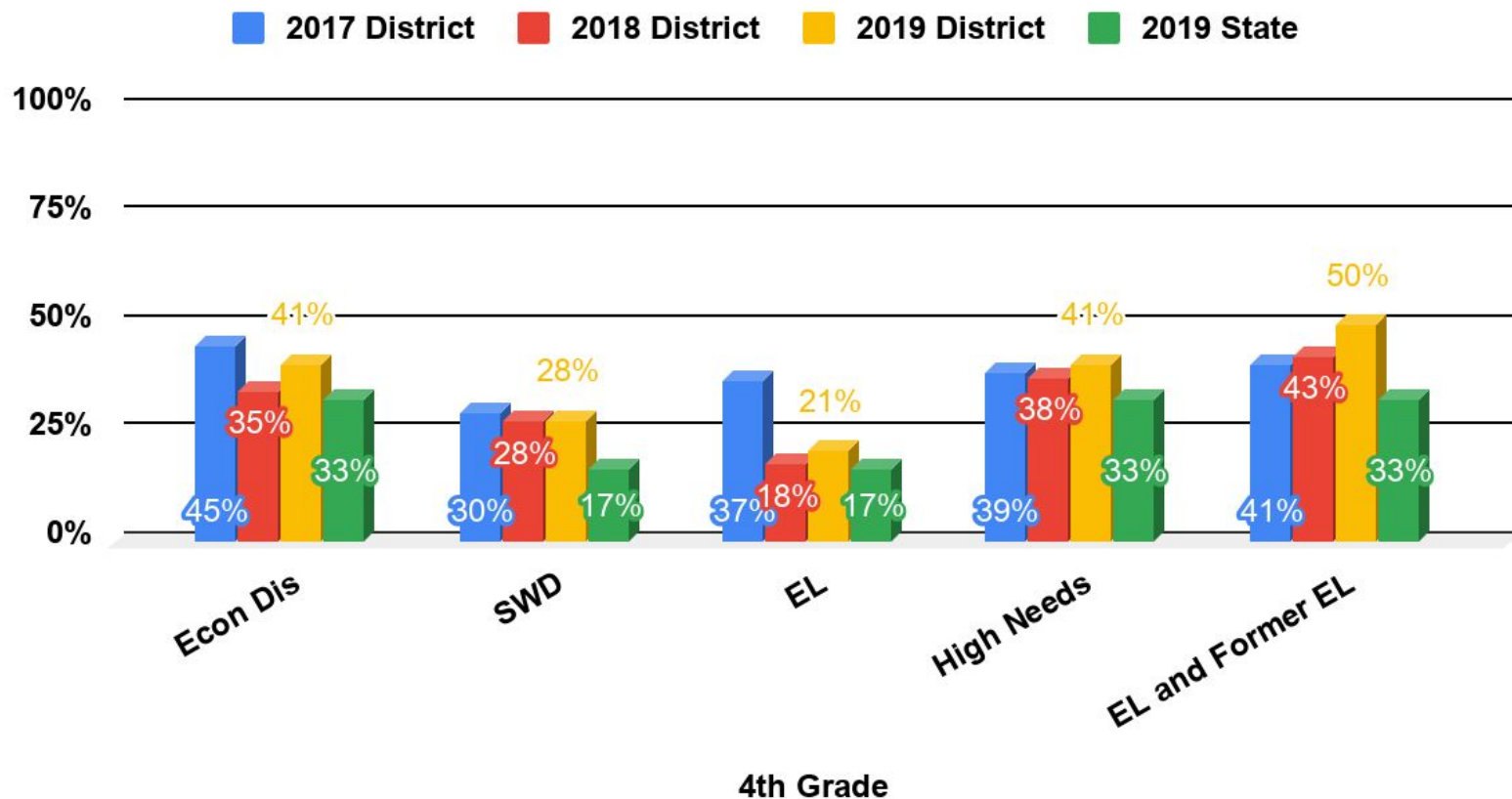




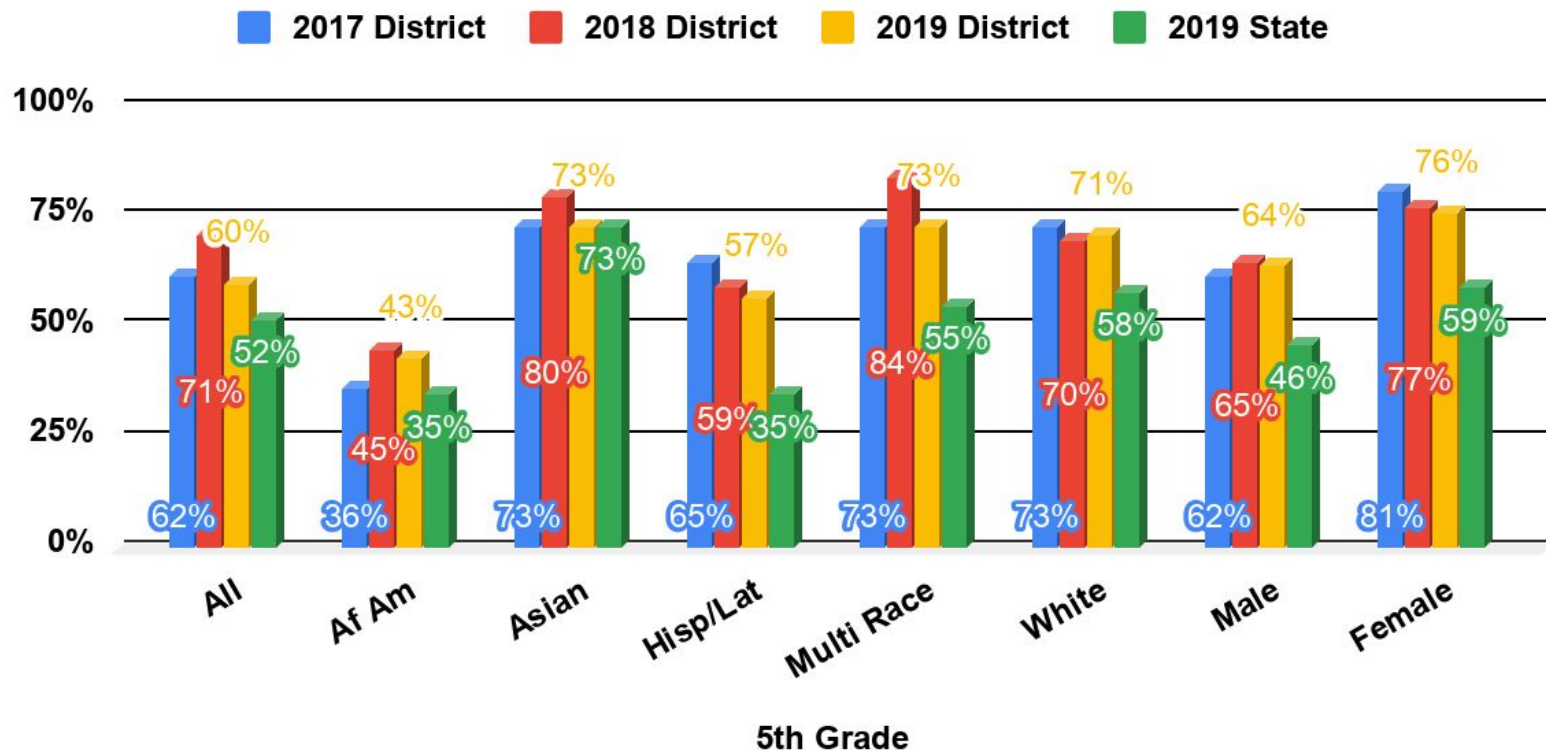
# 4th Grade ELA Race/Ethnicity/Gender Meeting/Exceeding Results



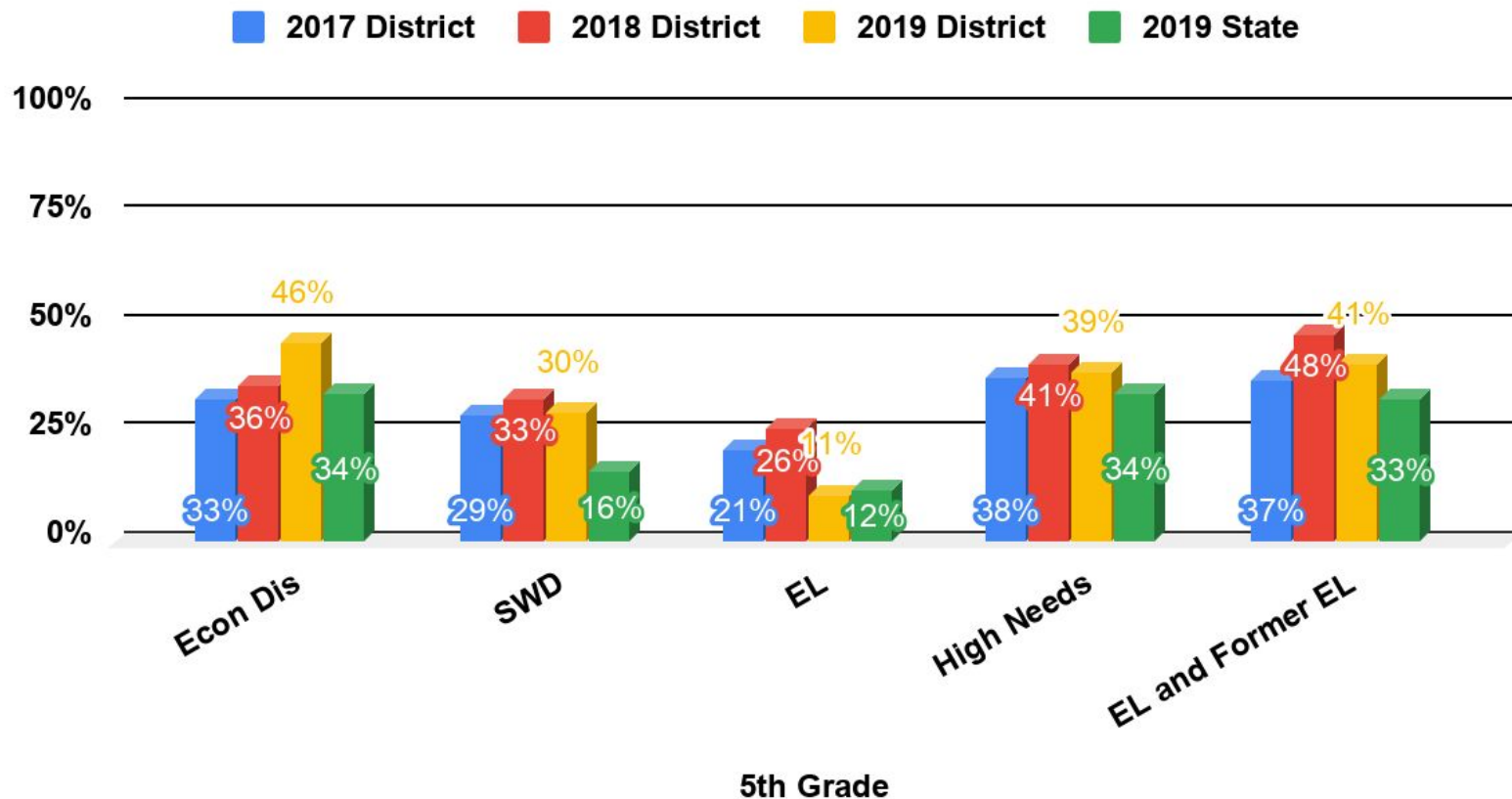
# 4th Grade ELA Subgroup Meeting/Exceeding Results



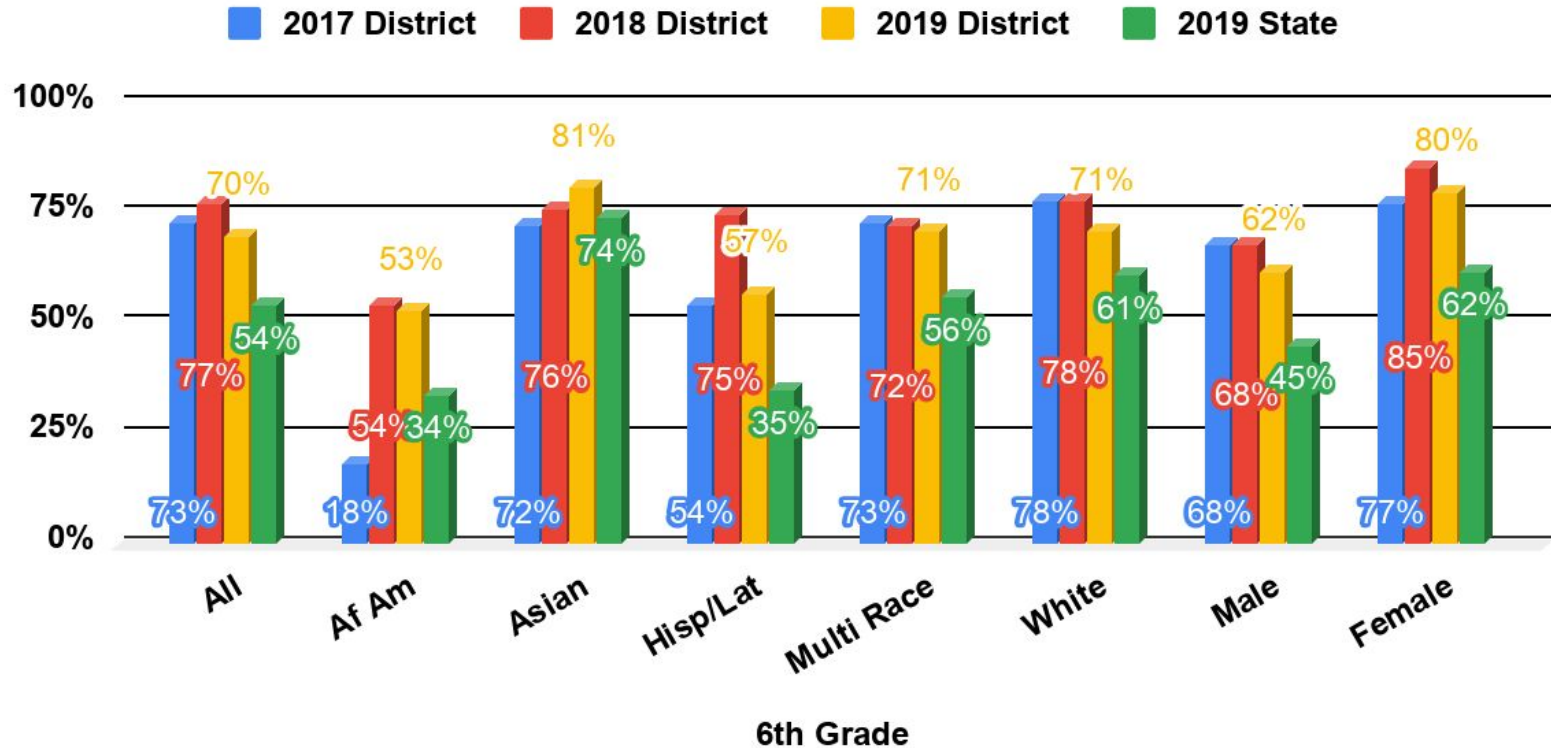
# 5th Grade ELA Race/Ethnicity/Gender Meeting/Exceeding Results



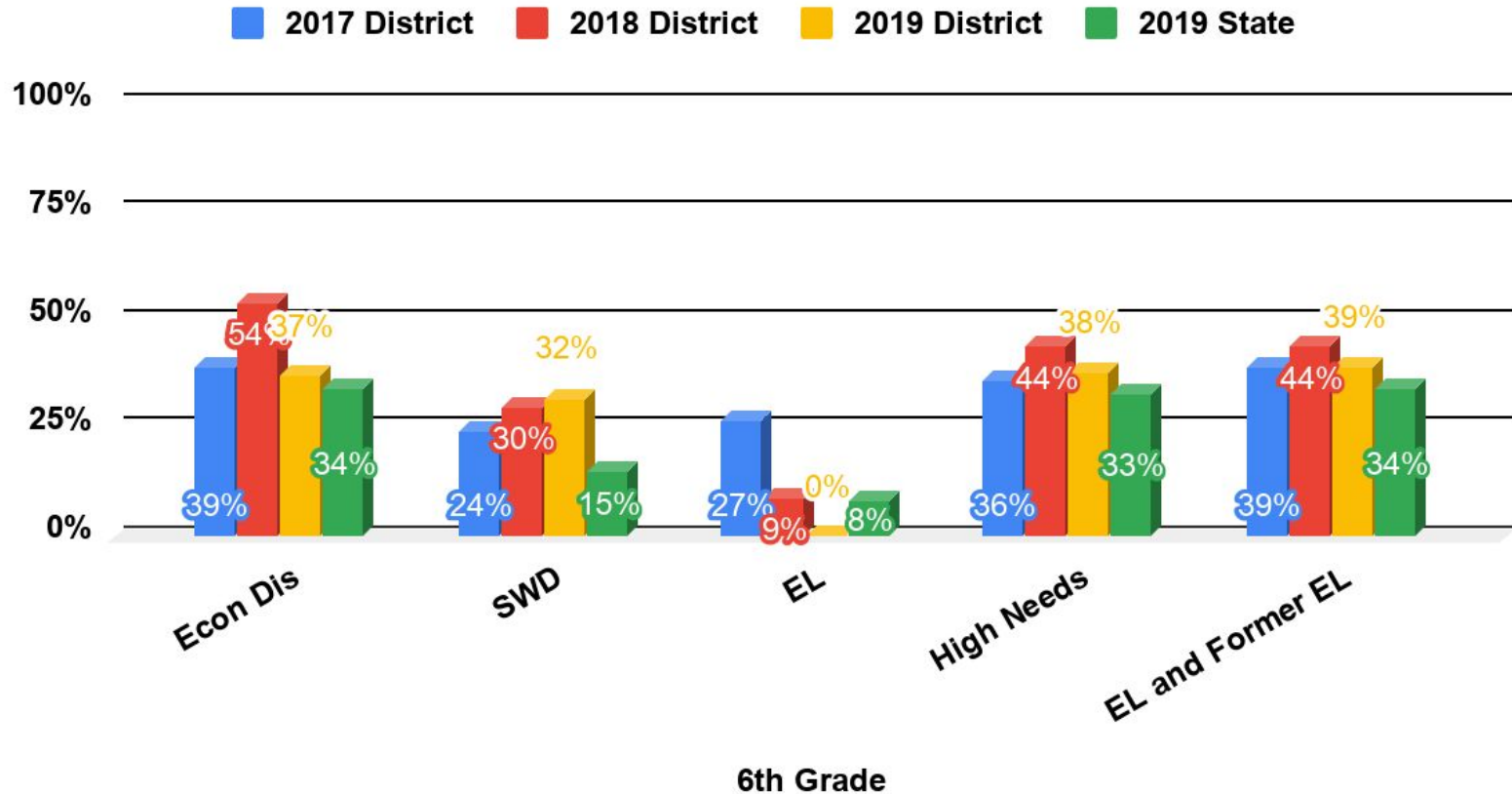
# 5th Grade ELA Subgroup Meeting/Exceeding Results



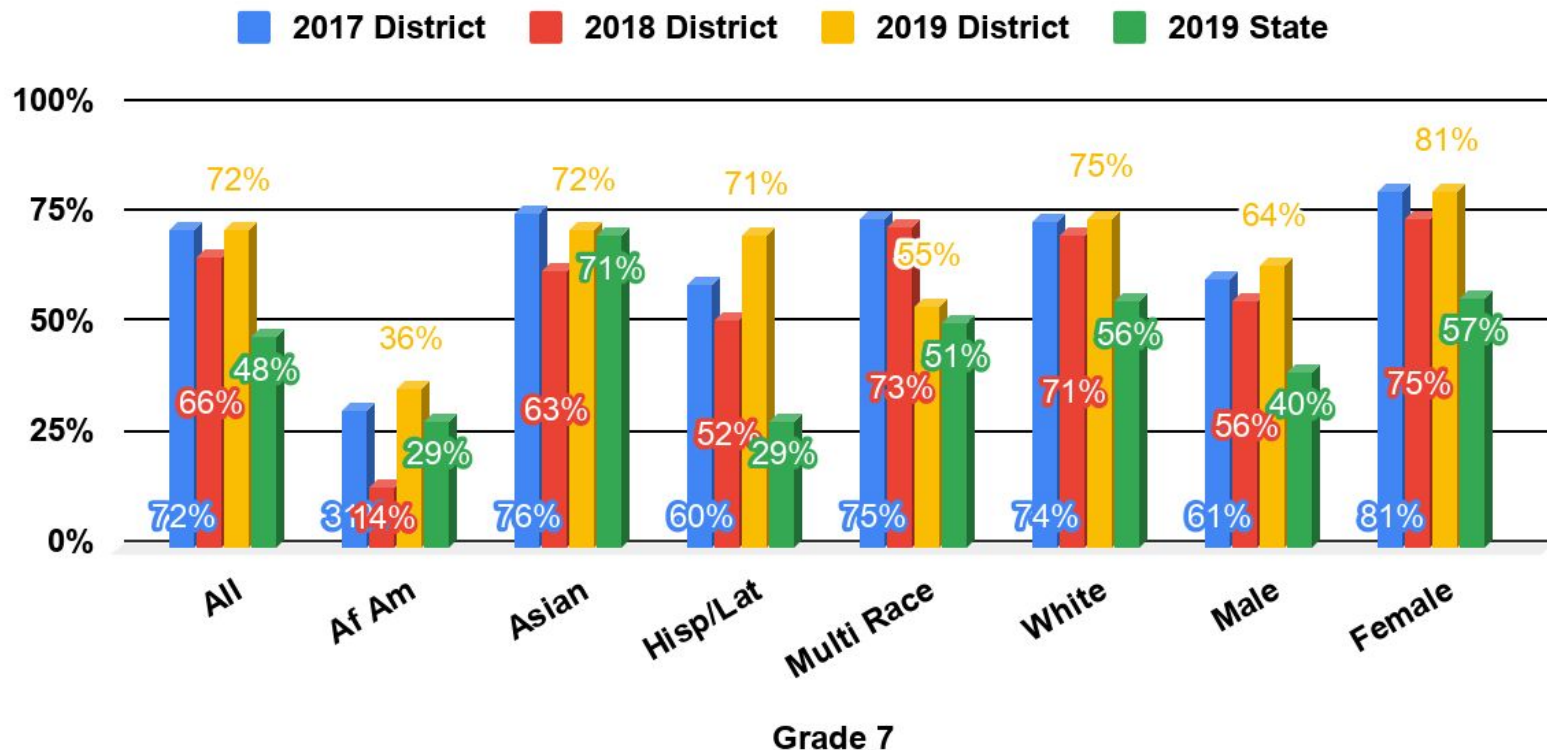
# 6th Grade ELA Race/Ethnicity/Gender Meeting/Exceeding Results



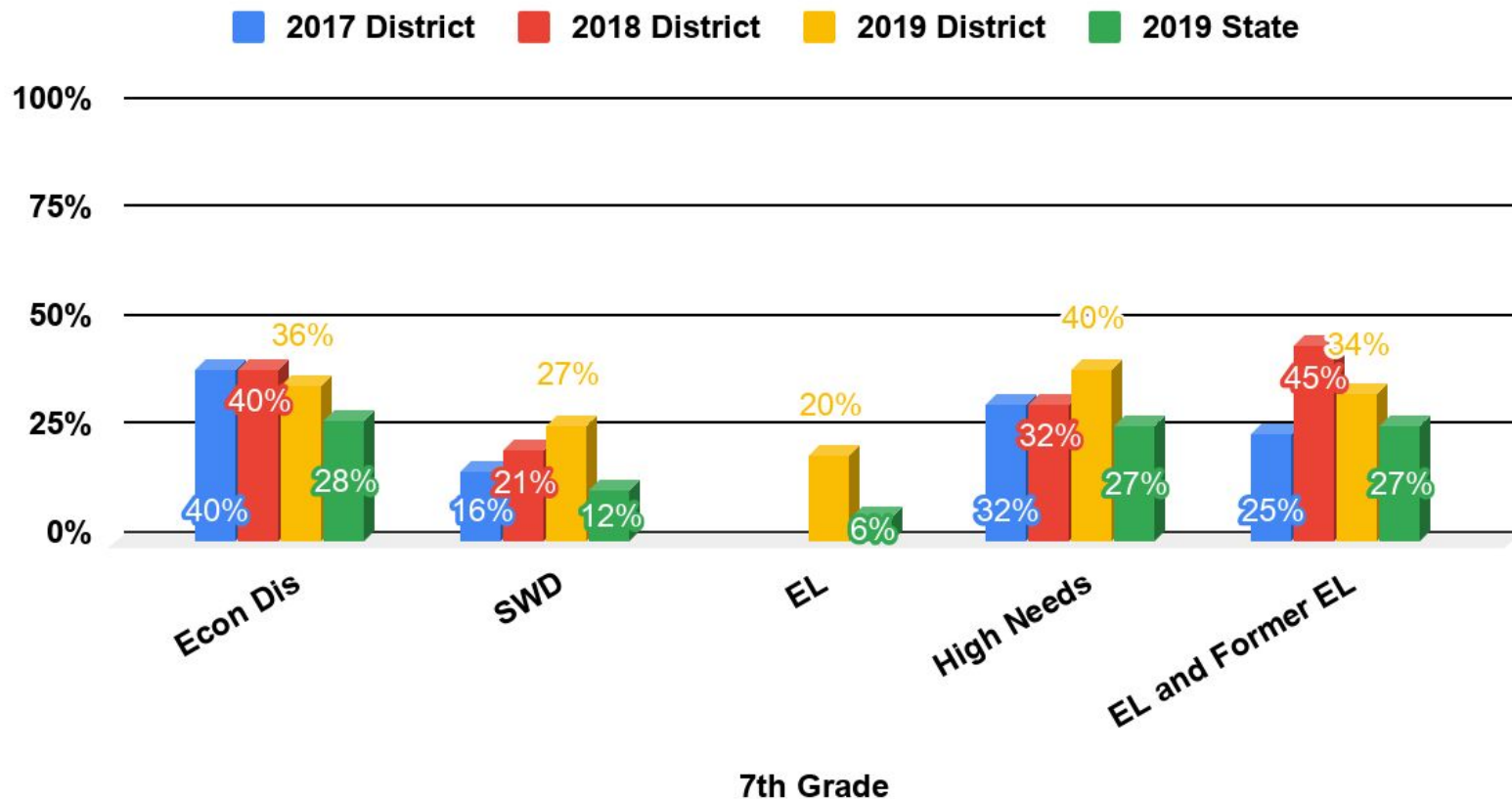
# 6th Grade ELA Subgroup Meeting/Exceeding Results



# 7th Grade ELA Race/Ethnicity/Gender Meeting/Exceeding Results

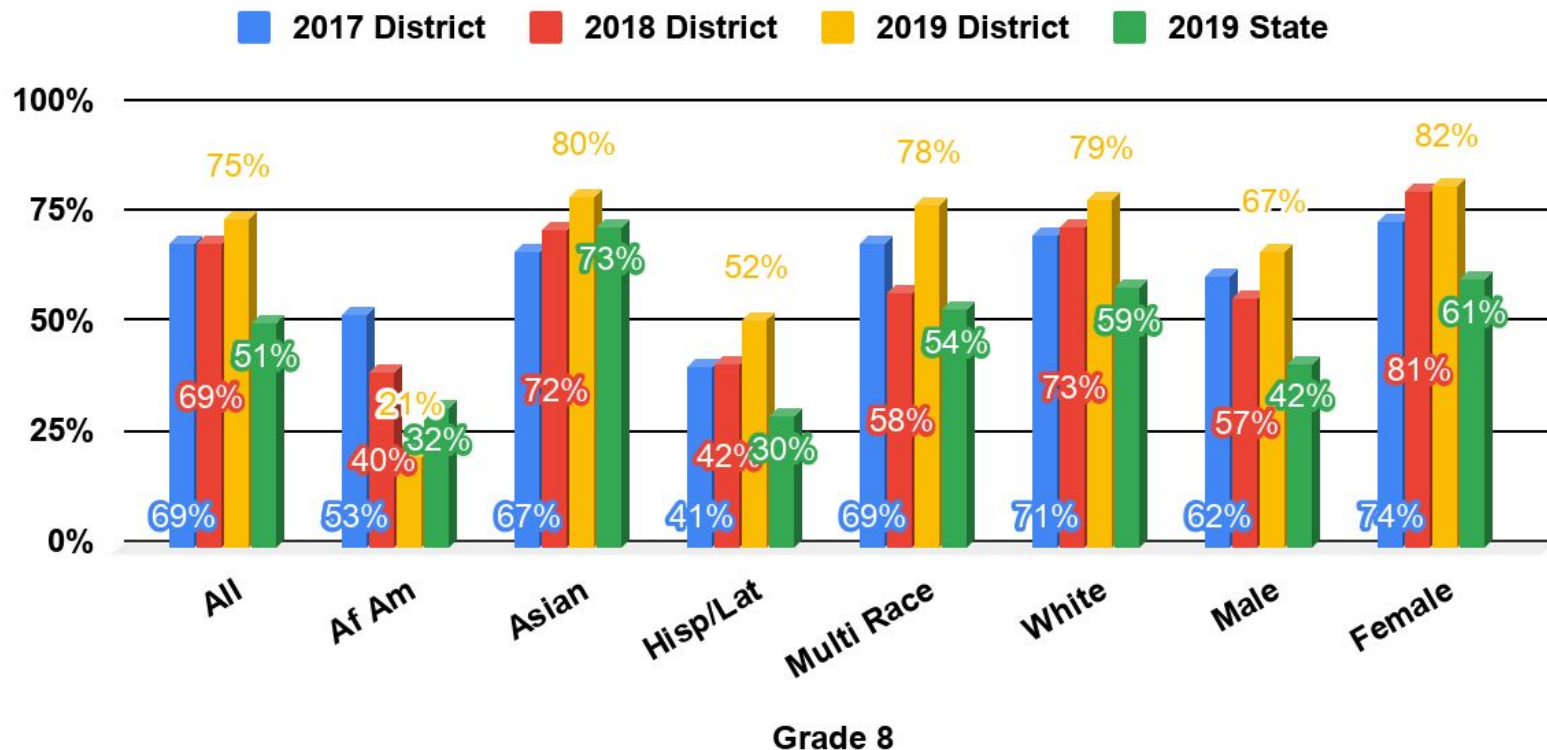


# 7th Grade ELA Subgroup Meeting/Exceeding Results

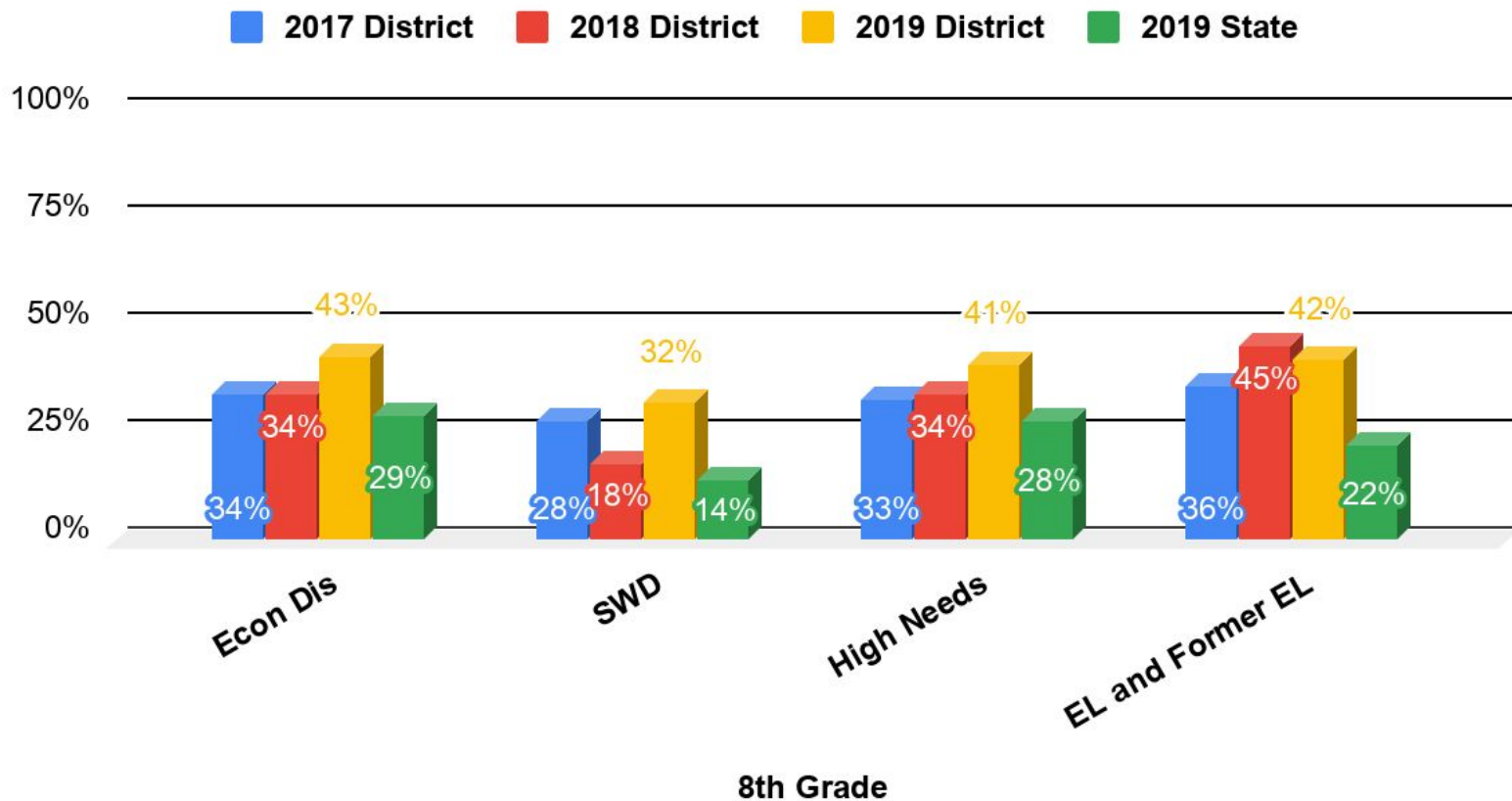




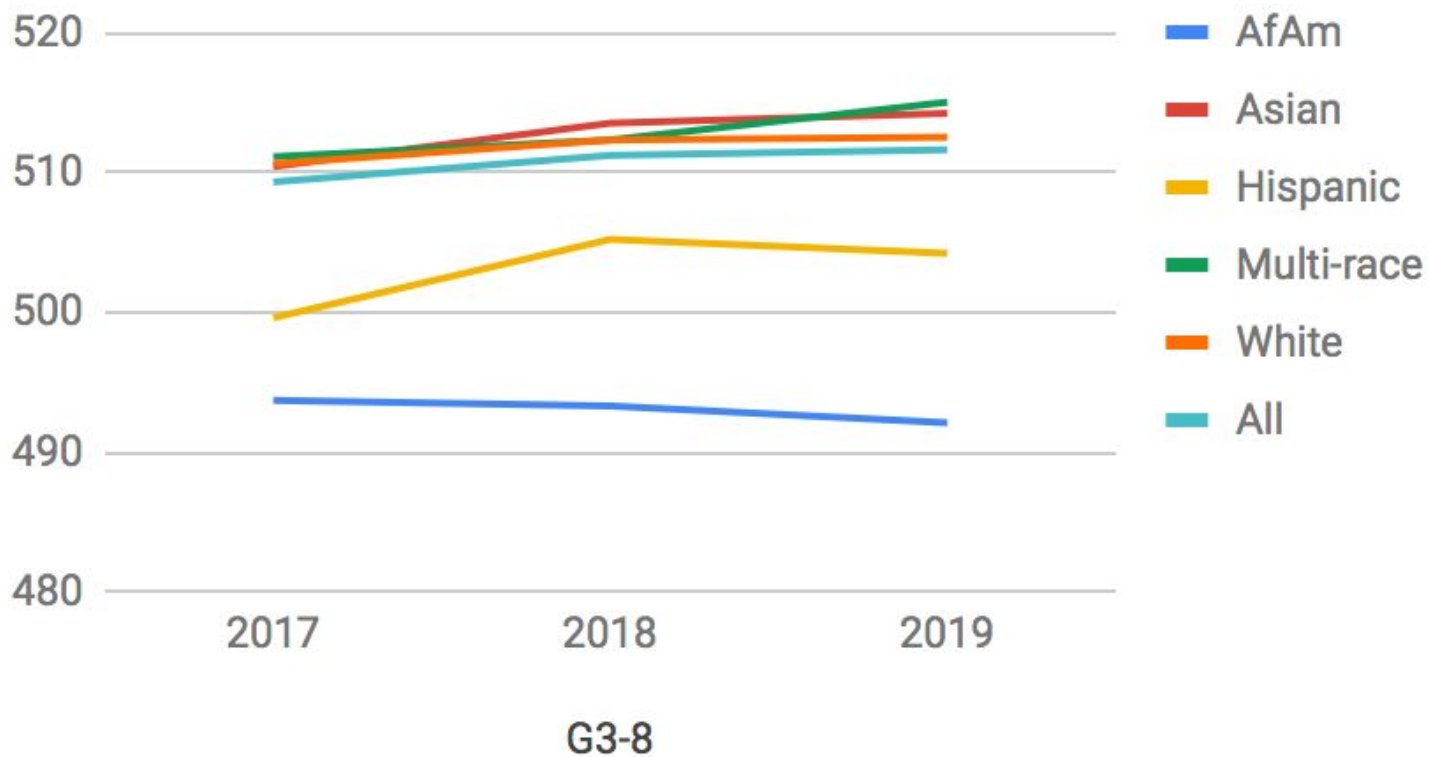
# 8th Grade ELA Race/Ethnicity/Gender Meeting/Exceeding Results



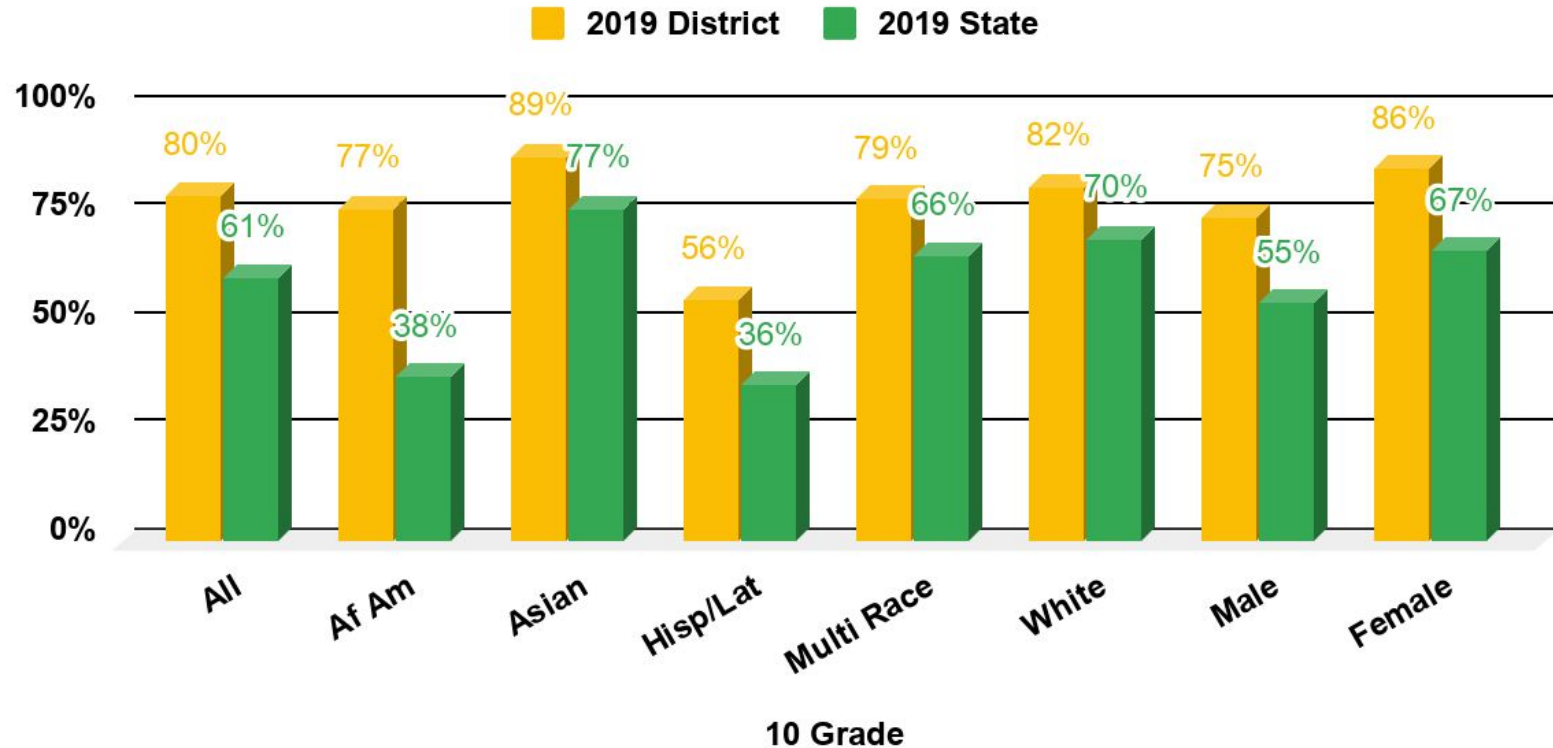
# 8th Grade ELA Subgroup Meeting/Exceeding Results



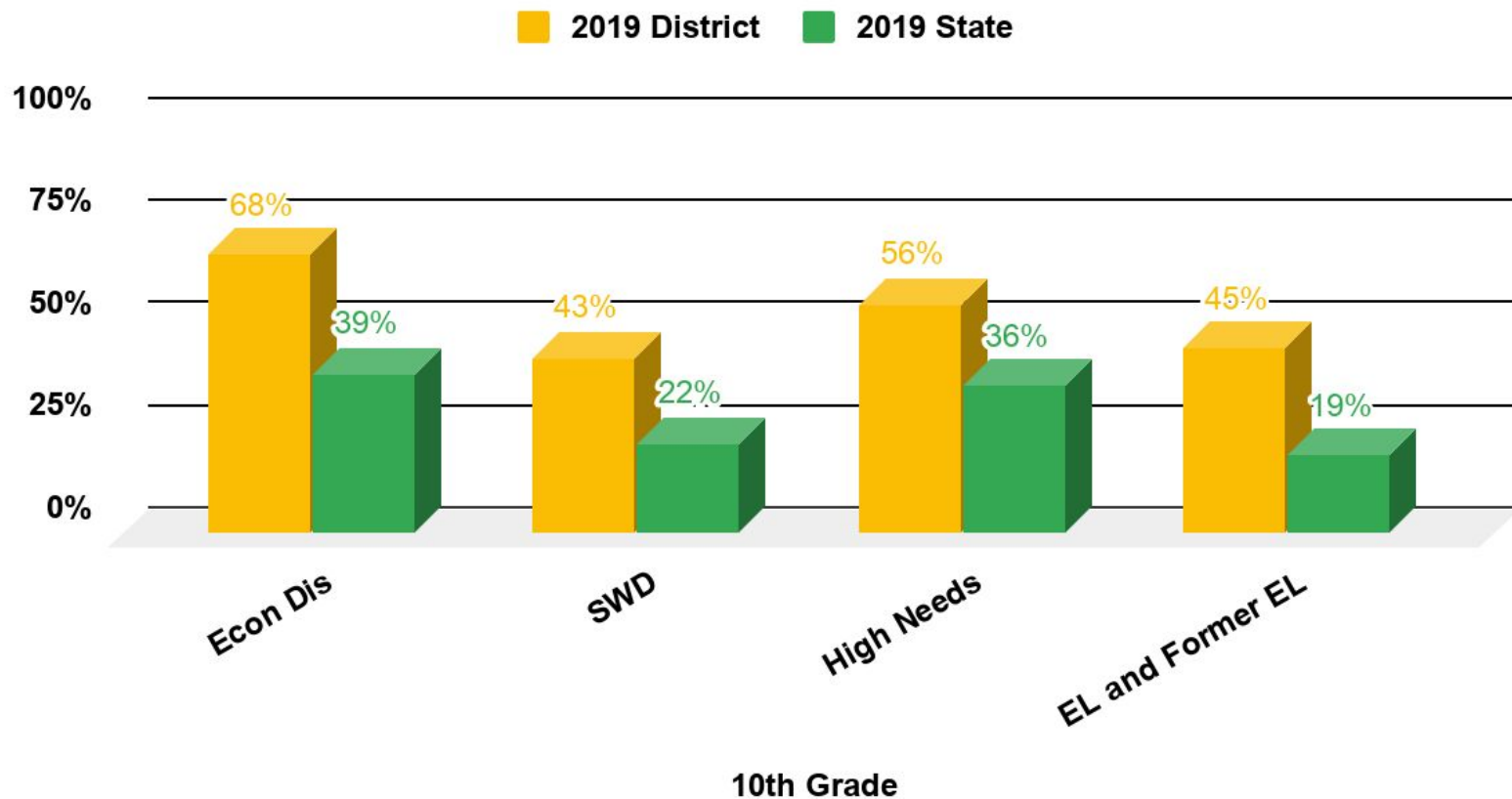
## G3-8 ELA Average Scaled Score 2017, 2018 and 2019




# 10th Grade ELA Race/Ethnicity/Gender Meeting/Exceeding Results



# 10th Grade ELA Subgroup Meeting/Exceeding Results

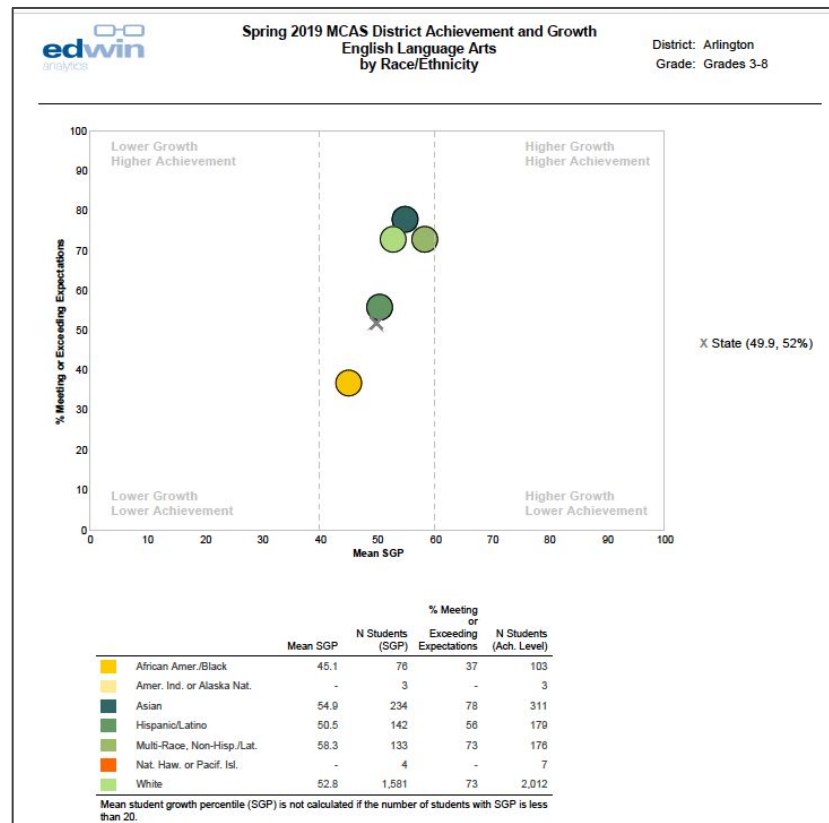
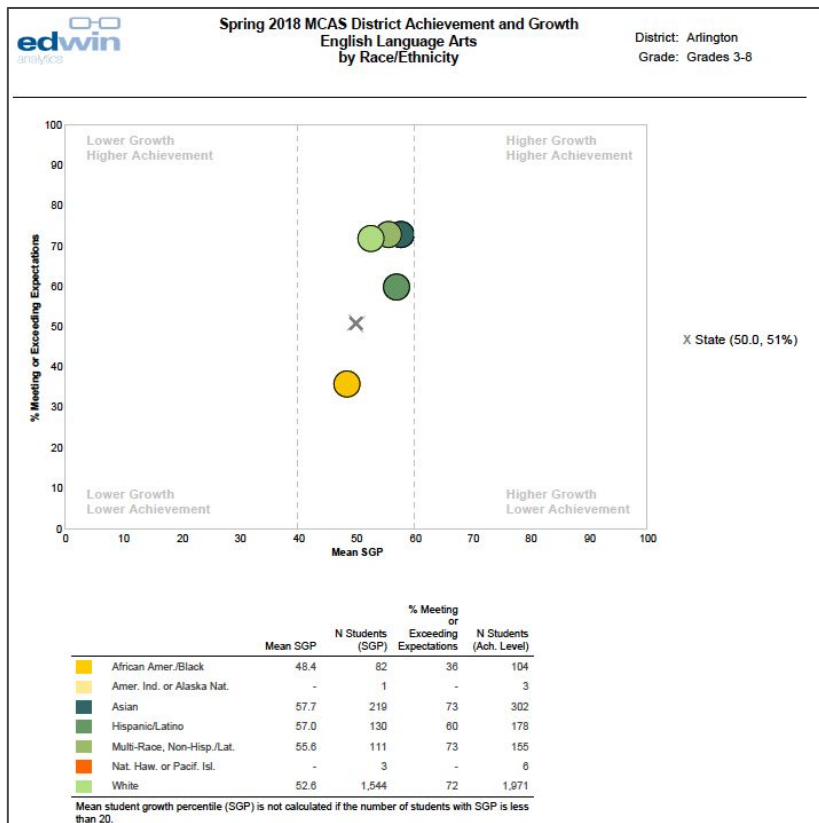




# Grades 3-8 ELA Student Growth Percentiles (SGP)

# District G3-8 ELA % Meeting/Exceeding x SGP by Race/Ethnicity

## 2018



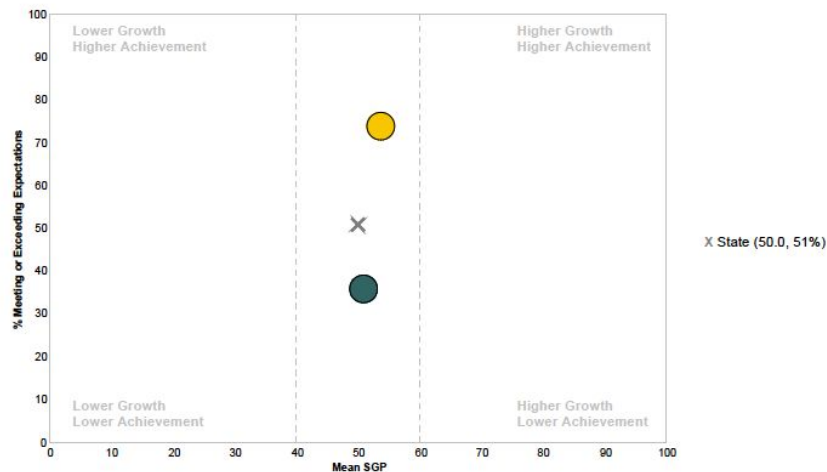
# District G3-8 ELA % Meeting/Exceeding x SGP by Economic Status

2018



Spring 2018 MCAS District Achievement and Growth  
English Language Arts  
by Economic Status

District: Arlington  
Grade: Grades 3-8



	Mean SGP	N Students (SGP)	% Meeting or Exceeding Expectations	N Students (Ach. Level)
Economically Disadvantaged	50.9	220	36	289
Non-Economically Disadvantaged	53.7	1,870	74	2,430

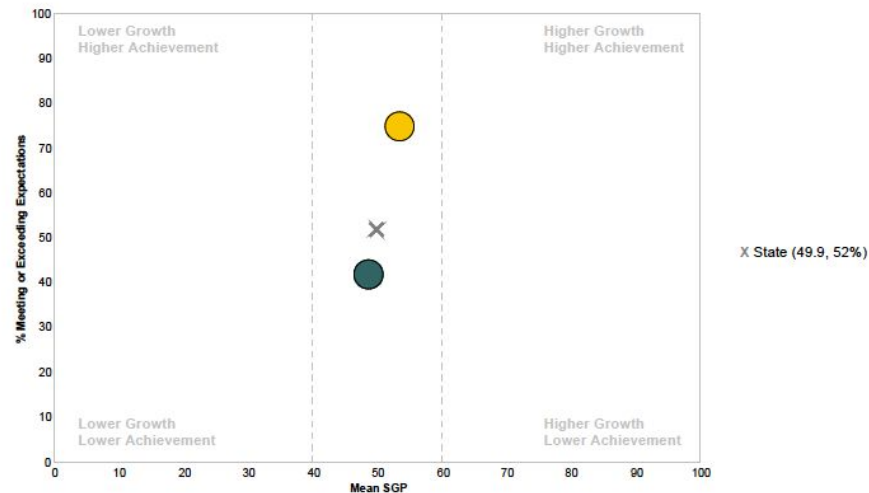
Mean student growth percentile (SGP) is not calculated if the number of students with SGP is less than 20.

2019



Spring 2019 MCAS District Achievement and Growth  
English Language Arts  
by Economic Status

District: Arlington  
Grade: Grades 3-8



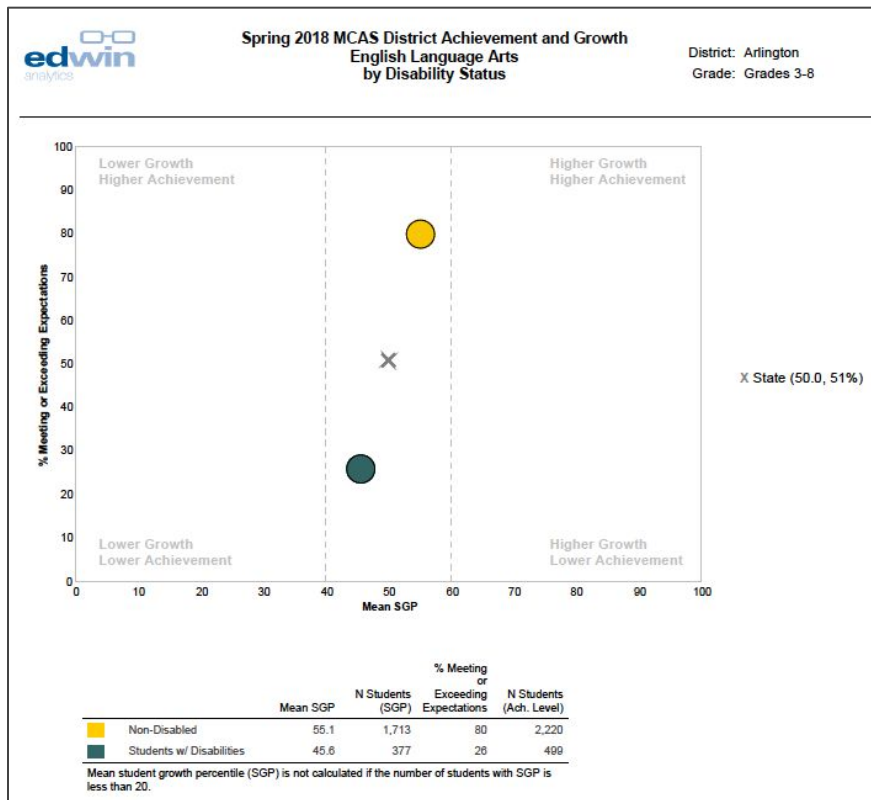
	Mean SGP	N Students (SGP)	% Meeting or Exceeding Expectations	N Students (Ach. Level)
Economically Disadvantaged	48.7	216	42	289
Non-Economically Disadvantaged	53.5	1,957	75	2,502

Mean student growth percentile (SGP) is not calculated if the number of students with SGP is less than 20.

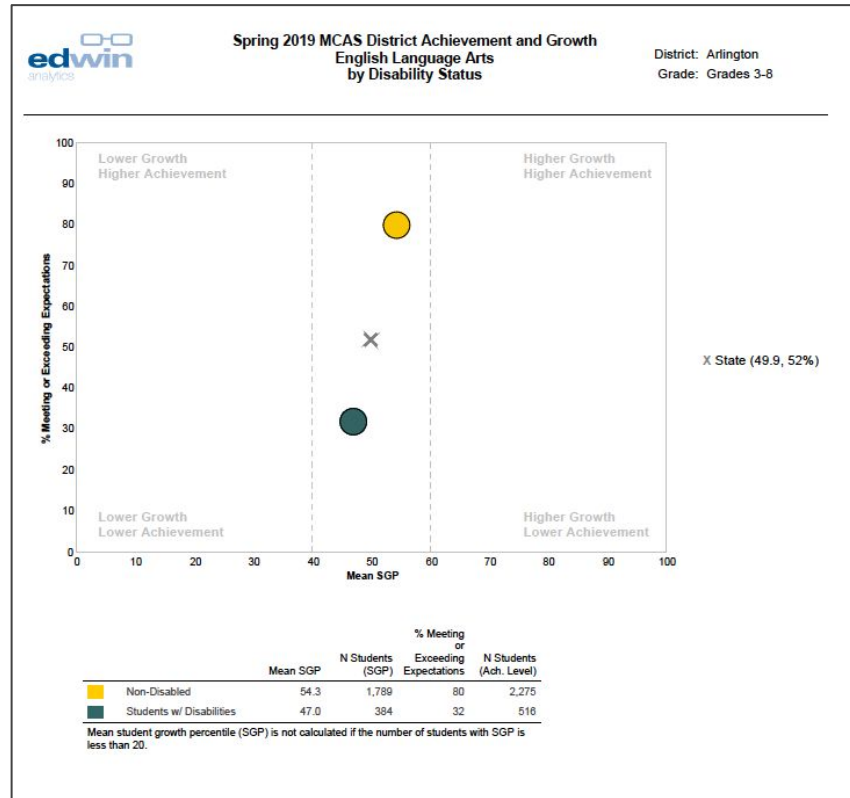


# District G3-8 ELA % Meeting/Exceeding x SGP by Disability Status

2018

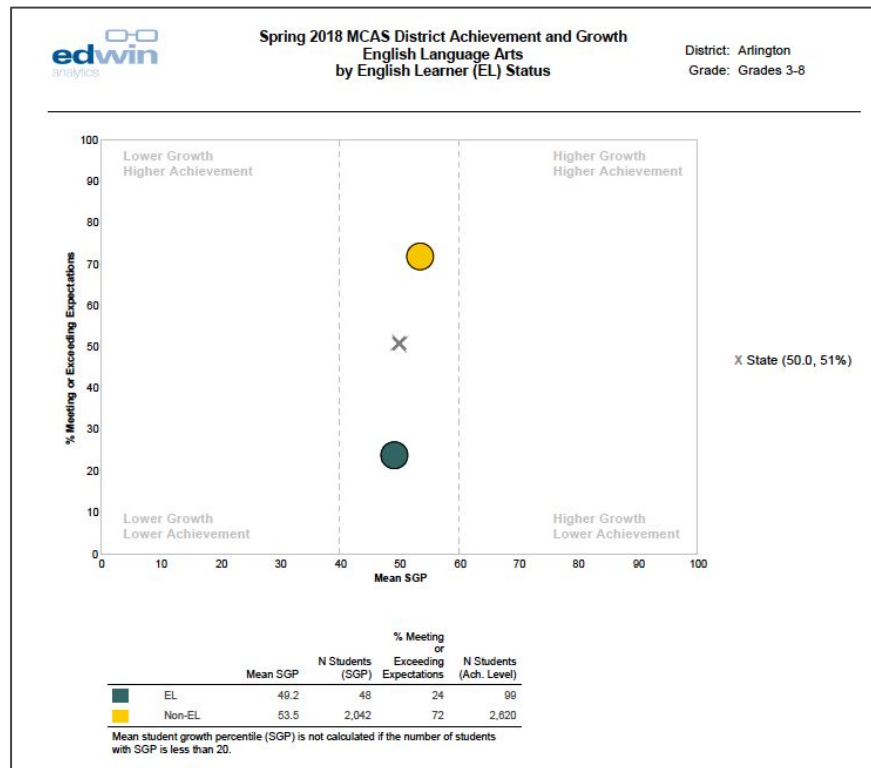


2019

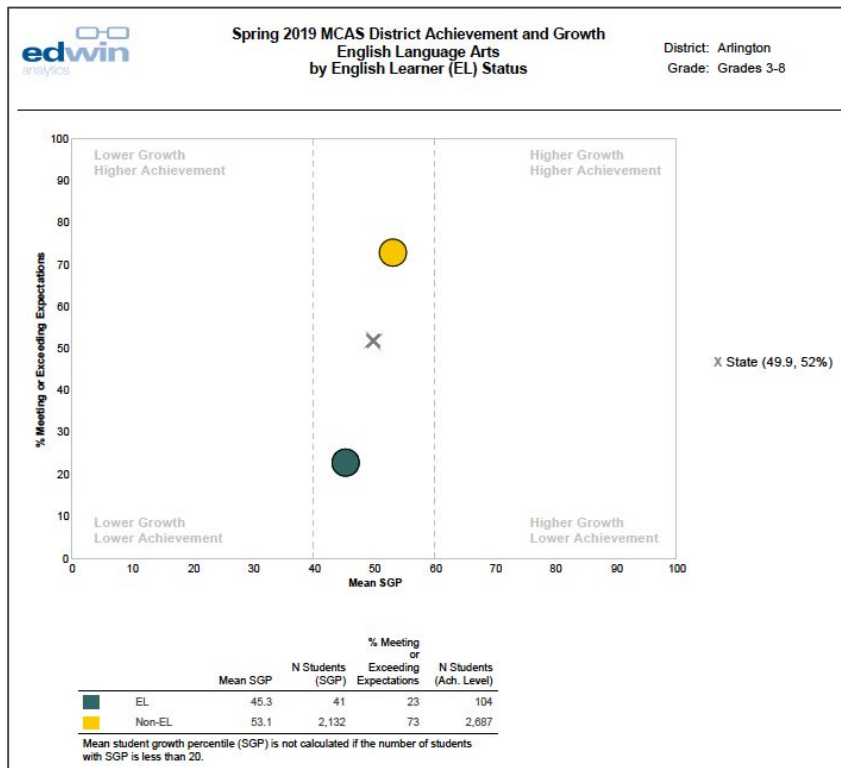


# District G3-8 ELA % Meeting/Exceeding x SGP by English Learner Status

2018

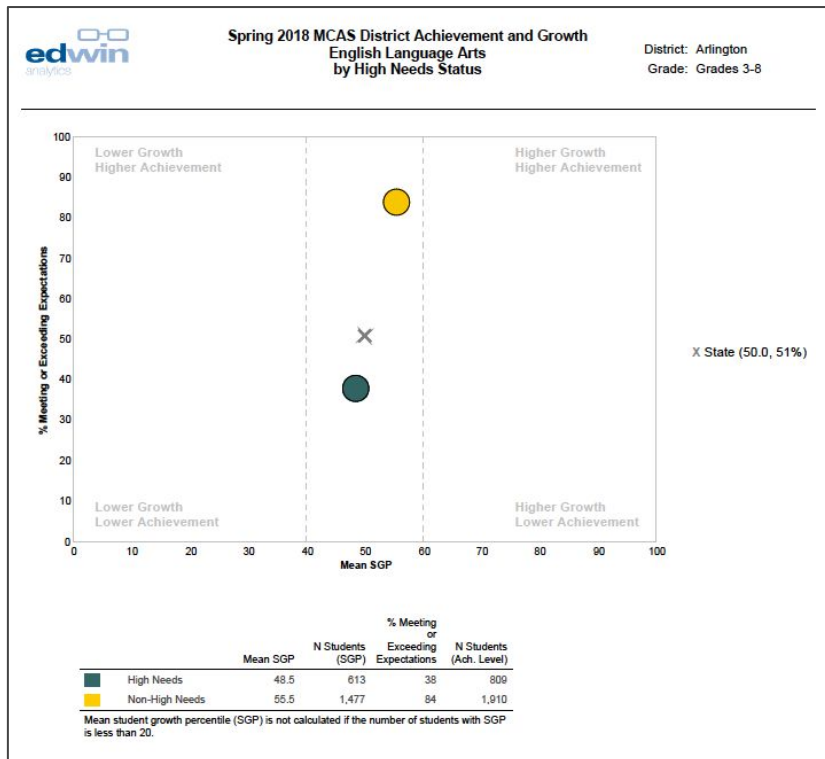


2019

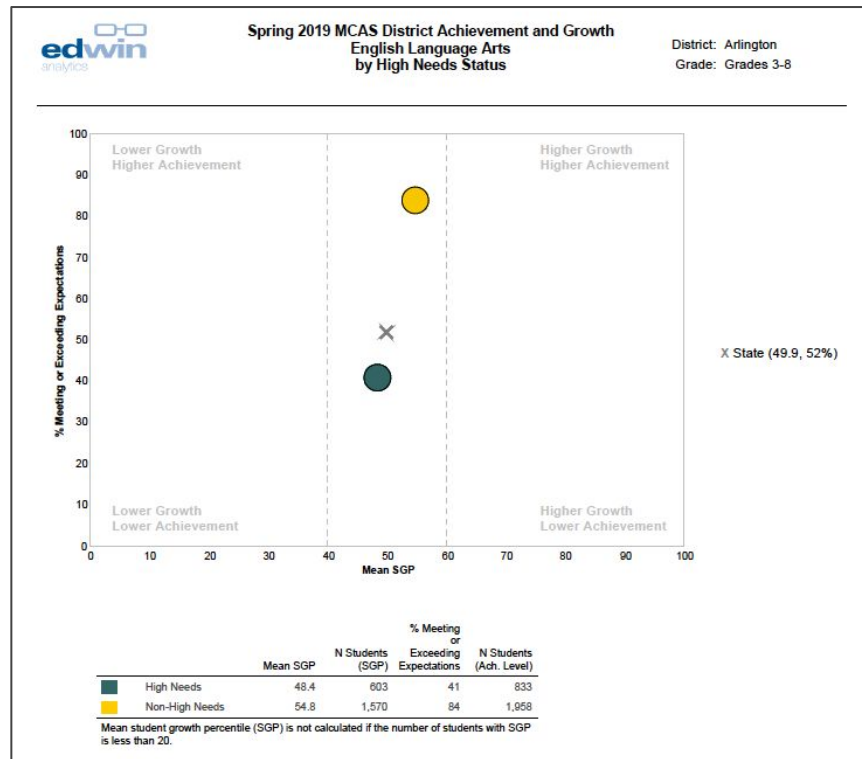


# District G3-8 ELA % Meeting/Exceeding x SGP by High Needs Status

2018

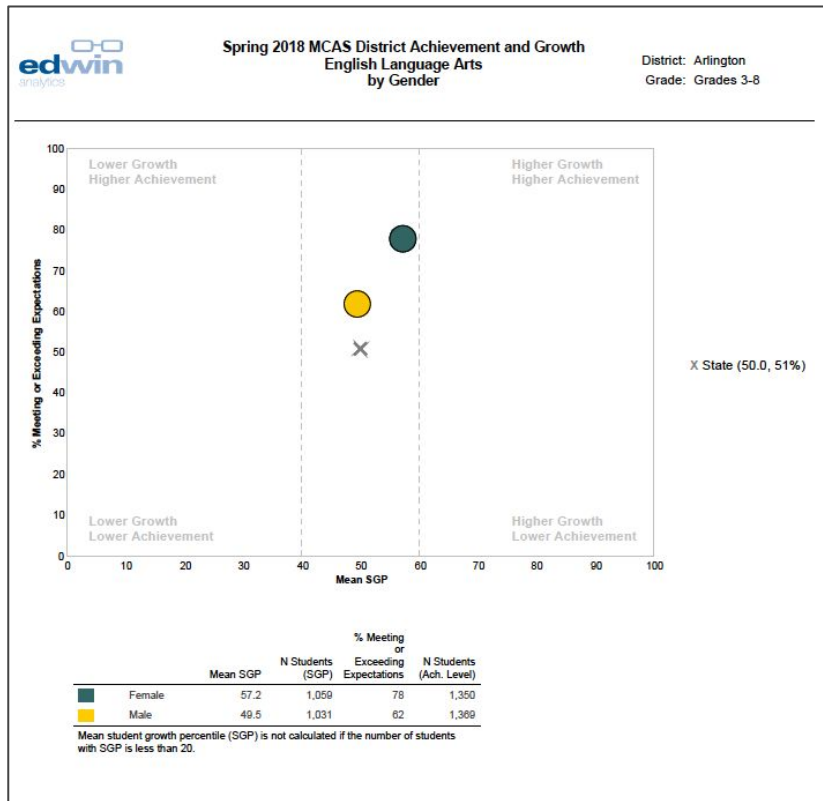


2019

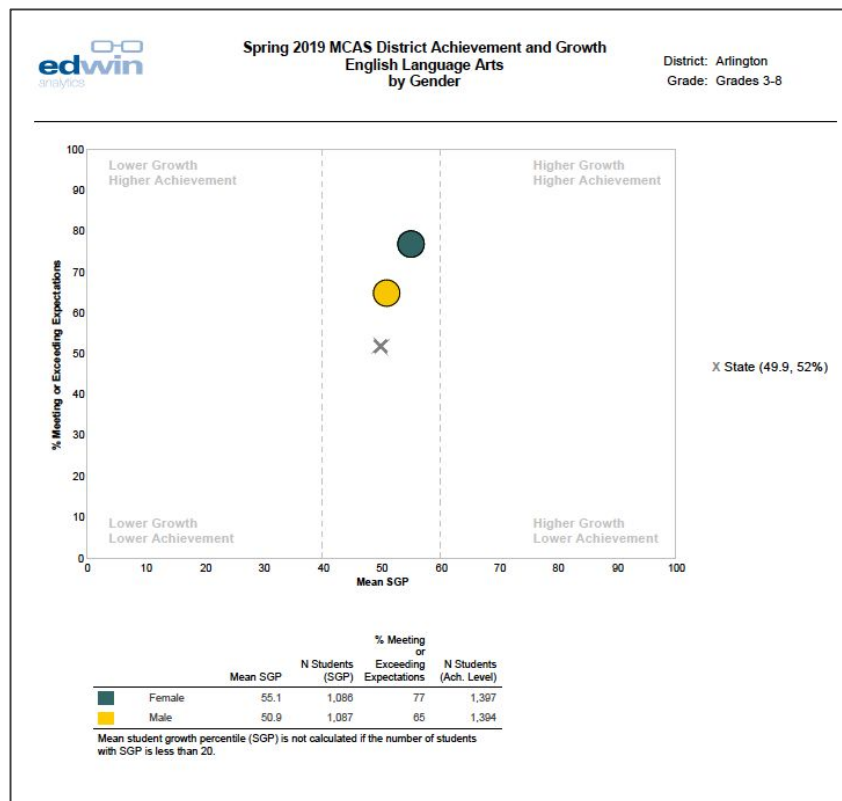


# District G3-8 ELA % Meeting/Exceeding x SGP by Gender

2018



2019

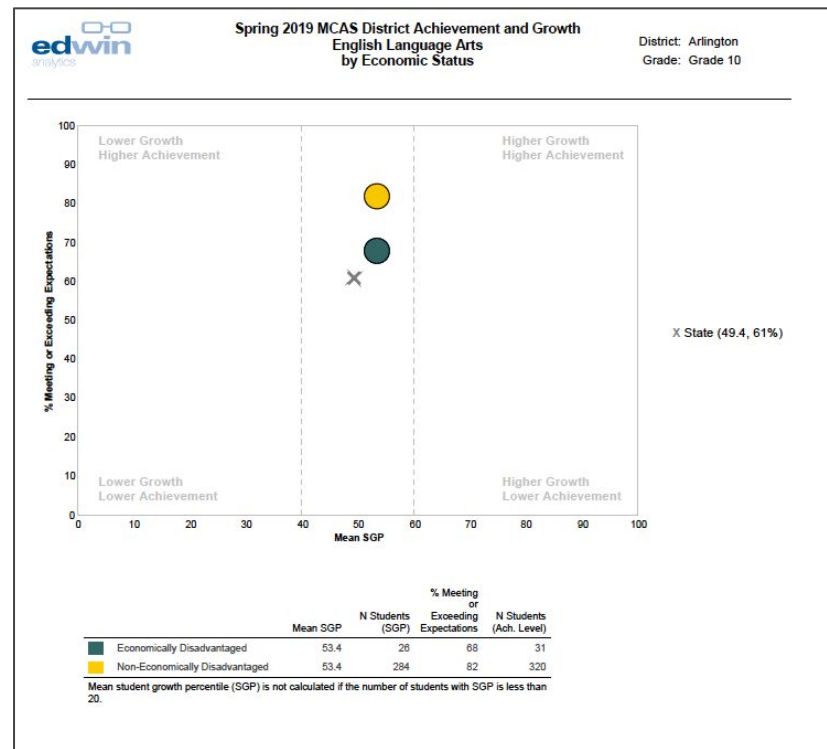


# District G10 ELA % Meeting/Exceeding x SGP 2019

## Race/Ethnicity

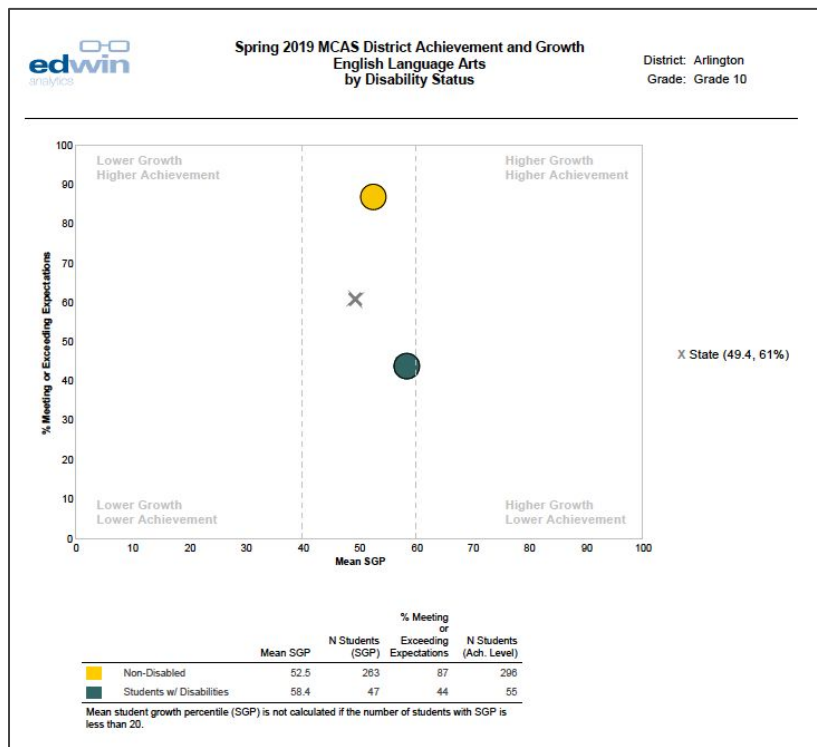


## Economic Status

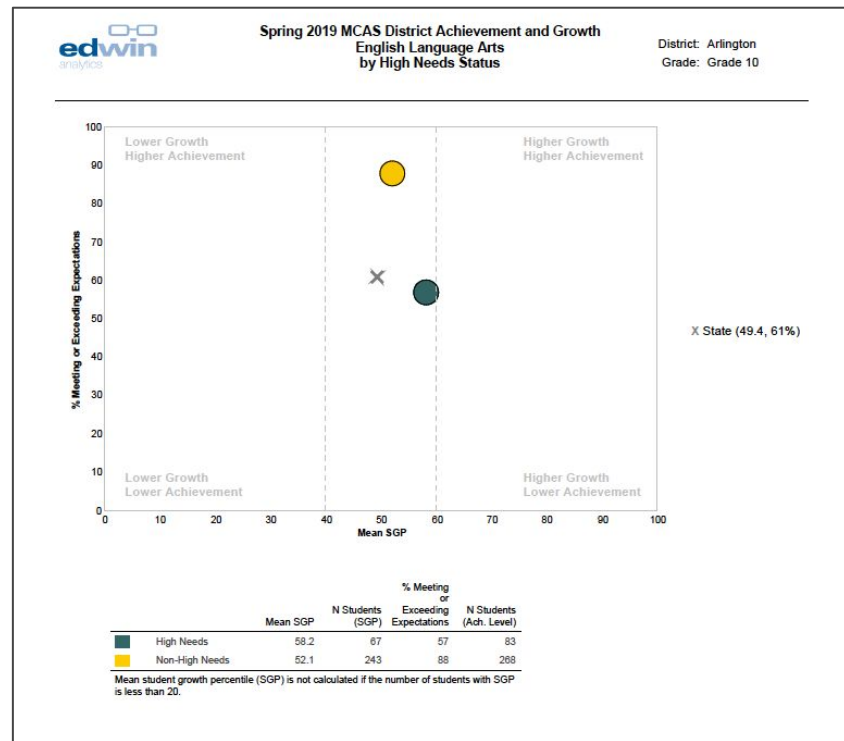


# District G10 ELA % Meeting/Exceeding x SGP 2019

## Disability Status

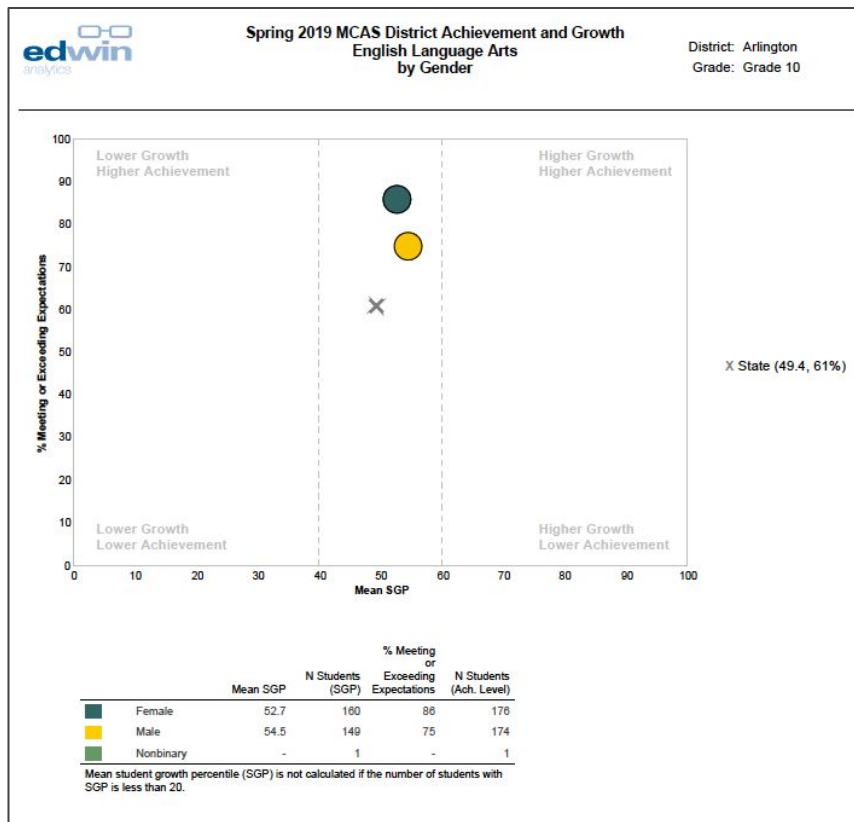


## High Needs Status



# District G10 ELA % Meeting/Exceeding x SGP 2019

## Gender

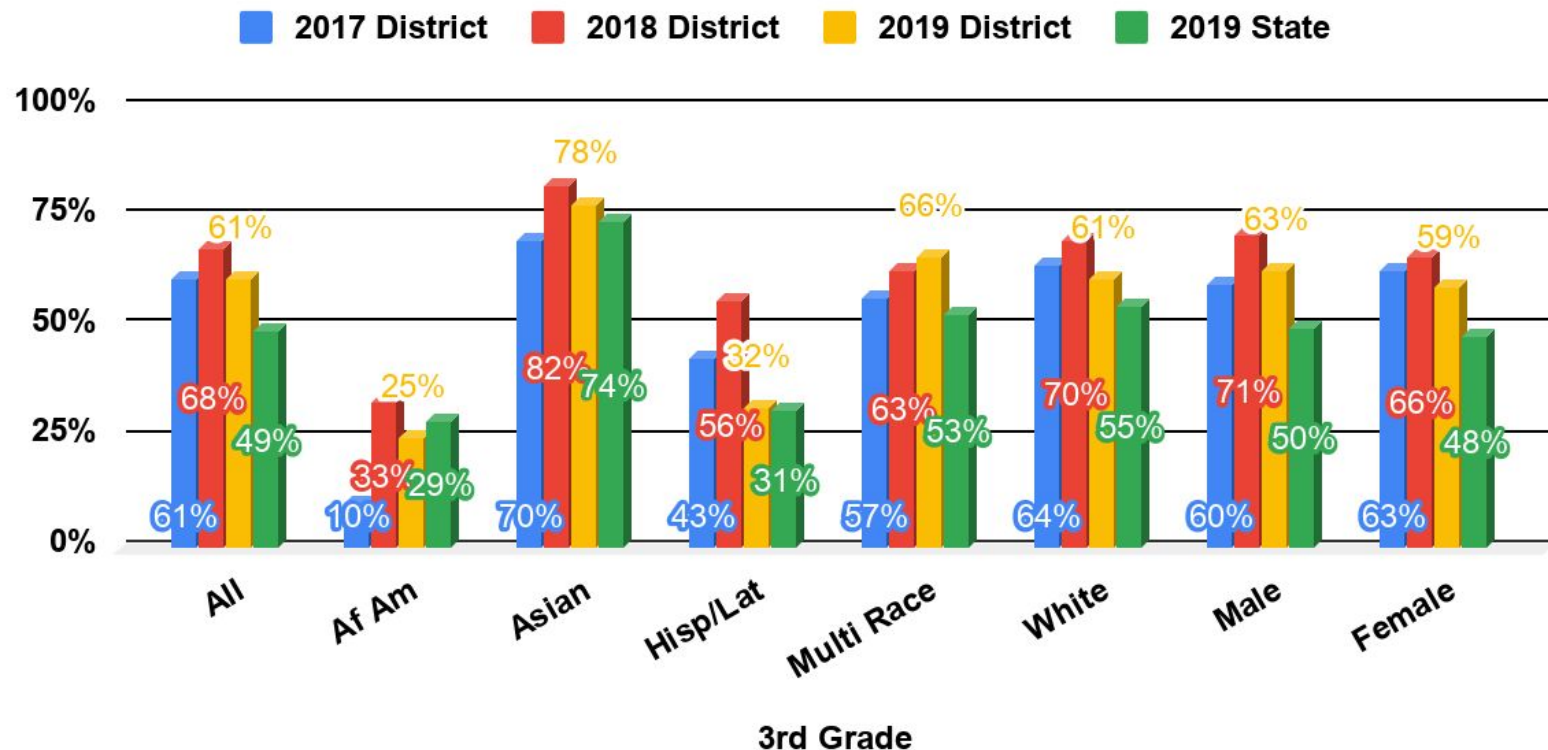




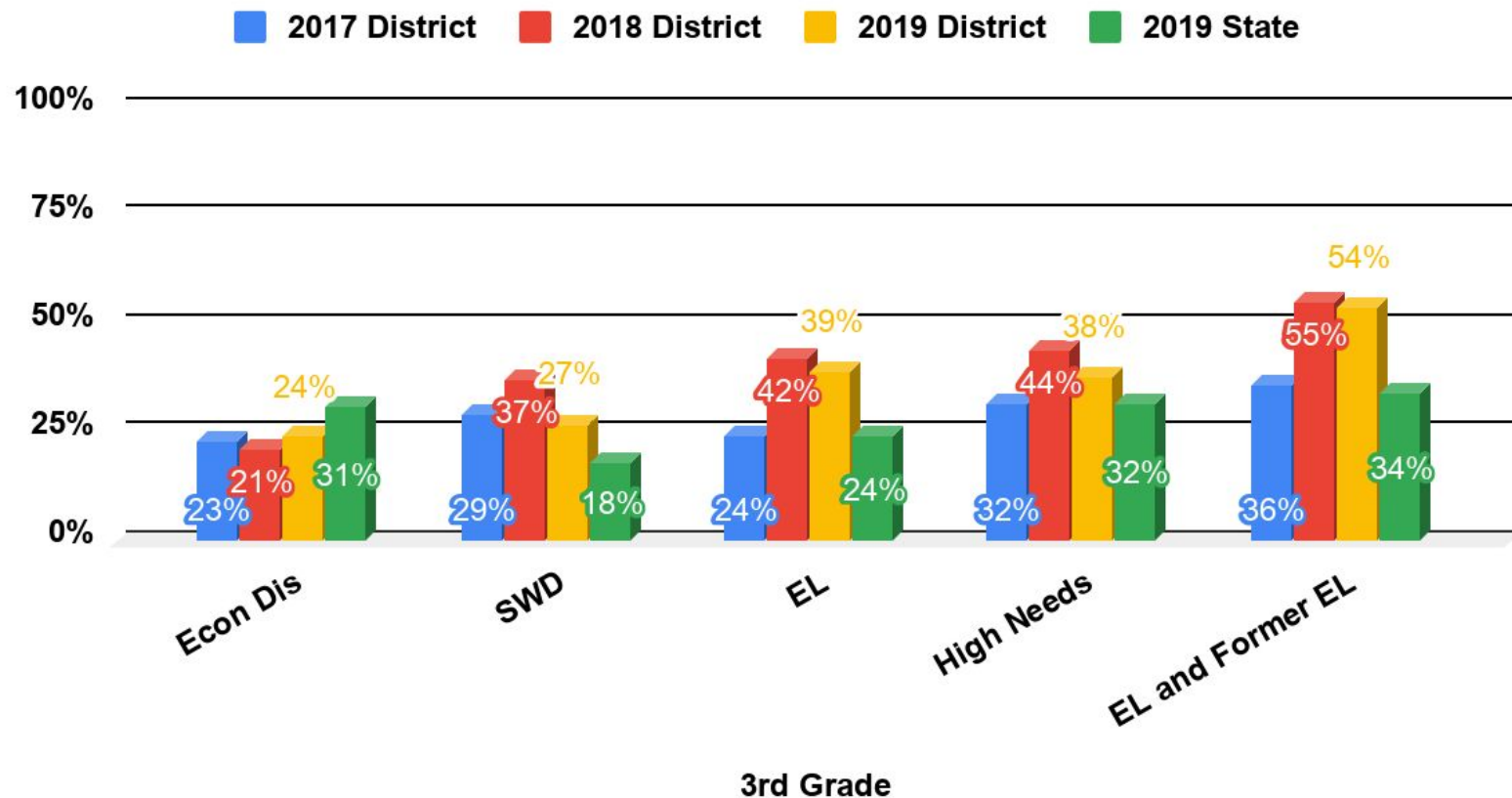
# Math Subgroup Achievement Results



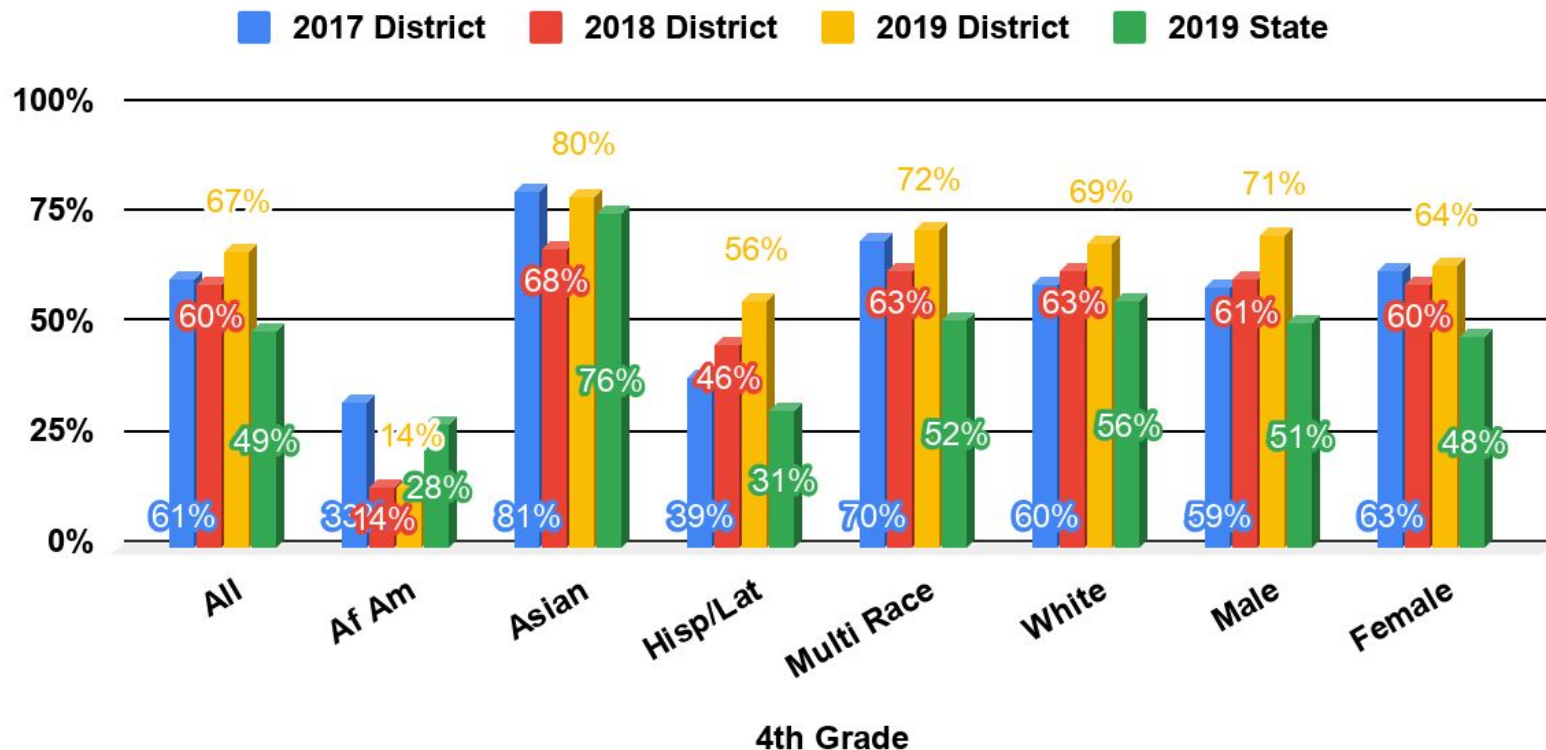
# 3rd Grade Math Race/Ethnicity/Gender Meeting/Exceeding Results



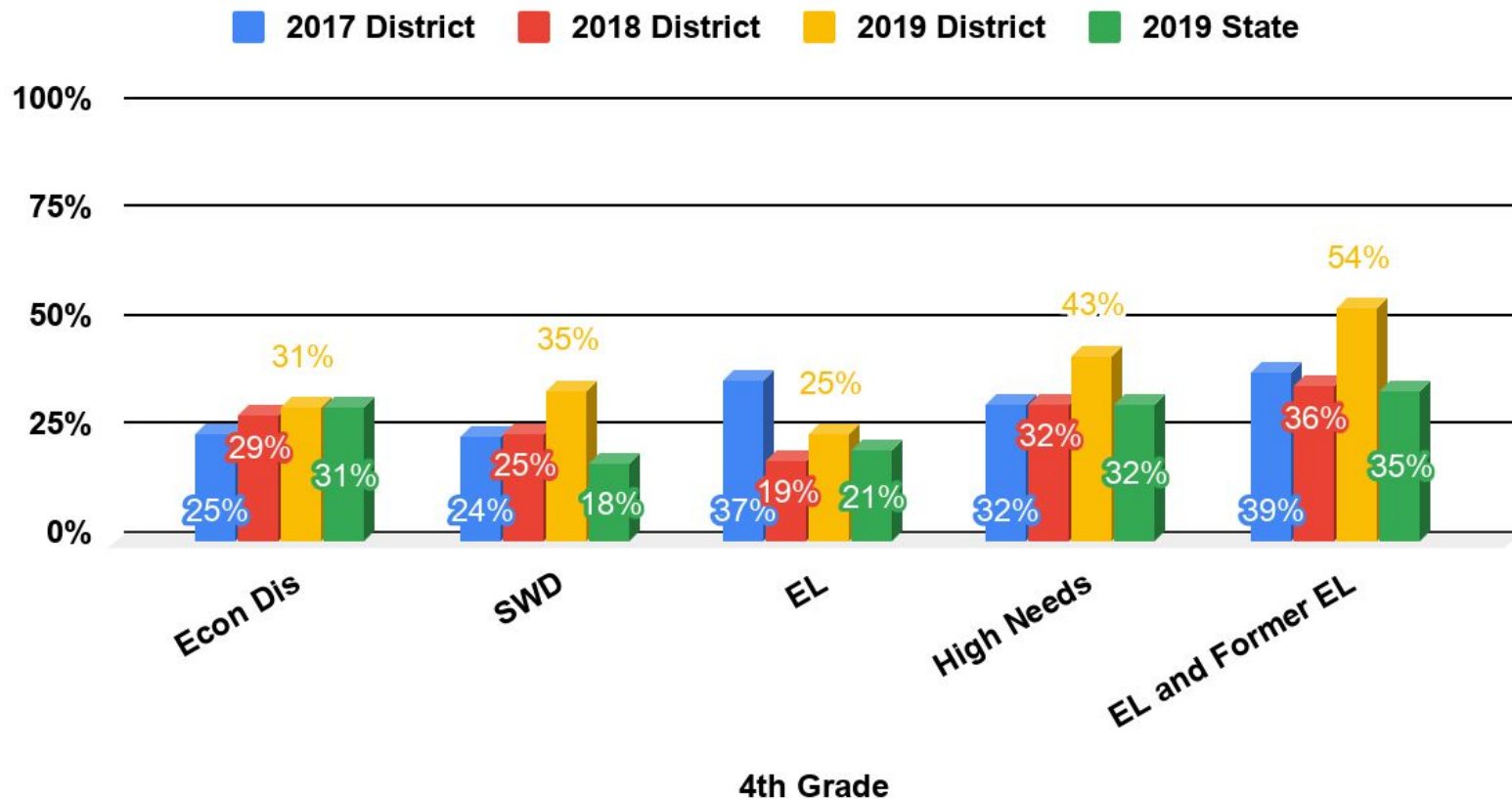
# 3rd Grade Math Subgroup Meeting/Exceeding Results



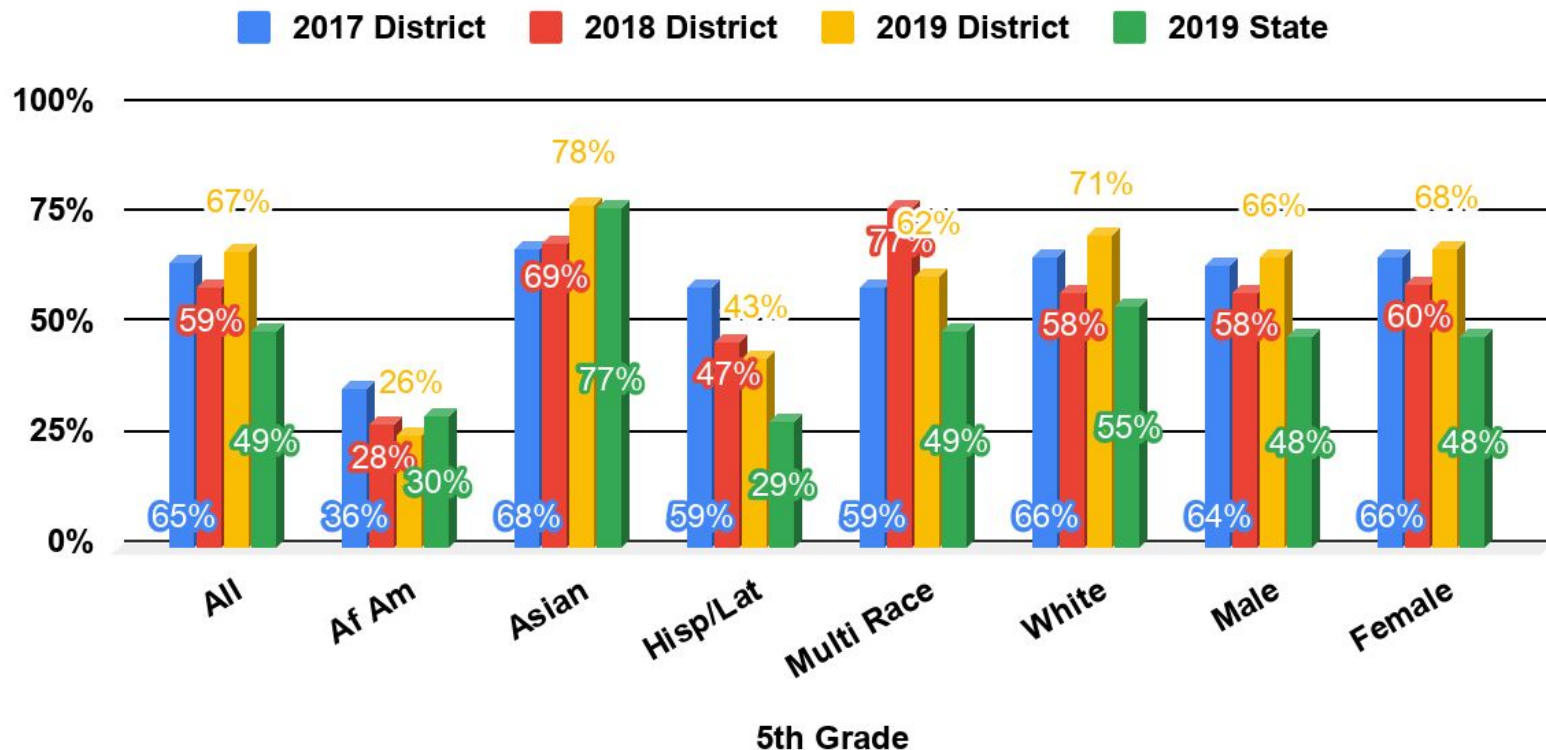
# 4th Grade Math Race/Ethnicity/Gender Meeting/Exceeding Results



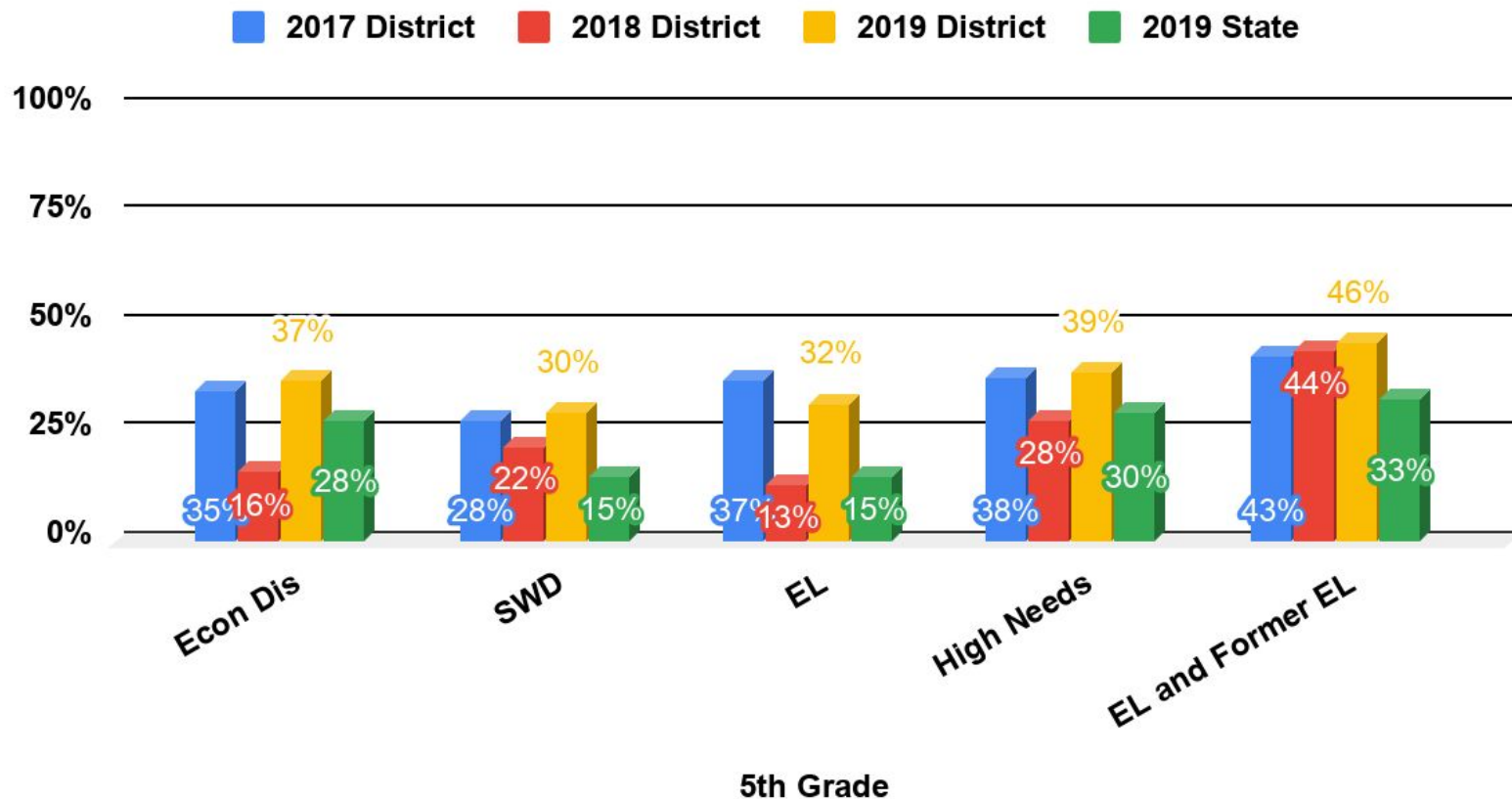
# 4th Grade Math Subgroup Meeting/Exceeding Results



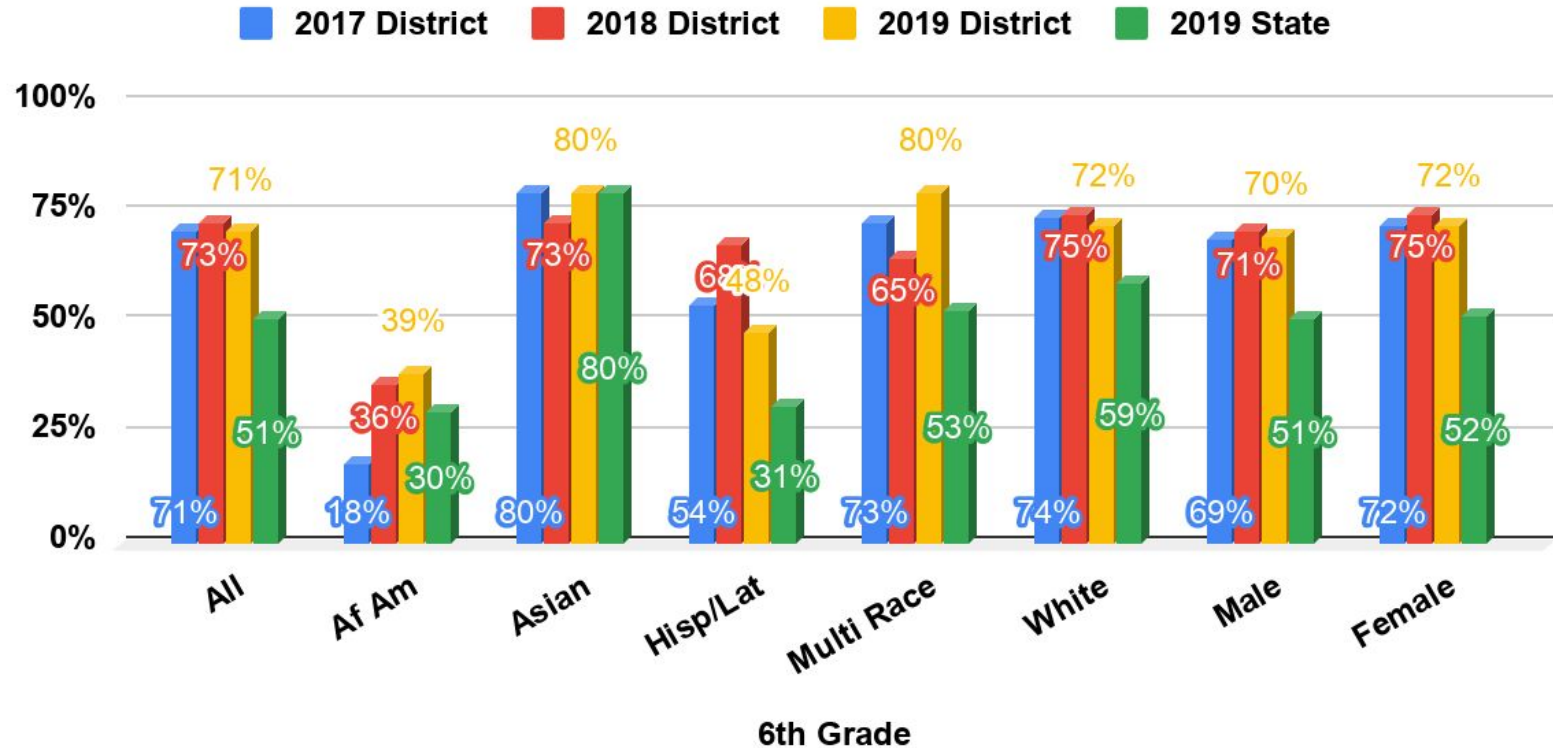
# 5th Grade Math Race/Ethnicity/Gender Meeting/Exceeding Results



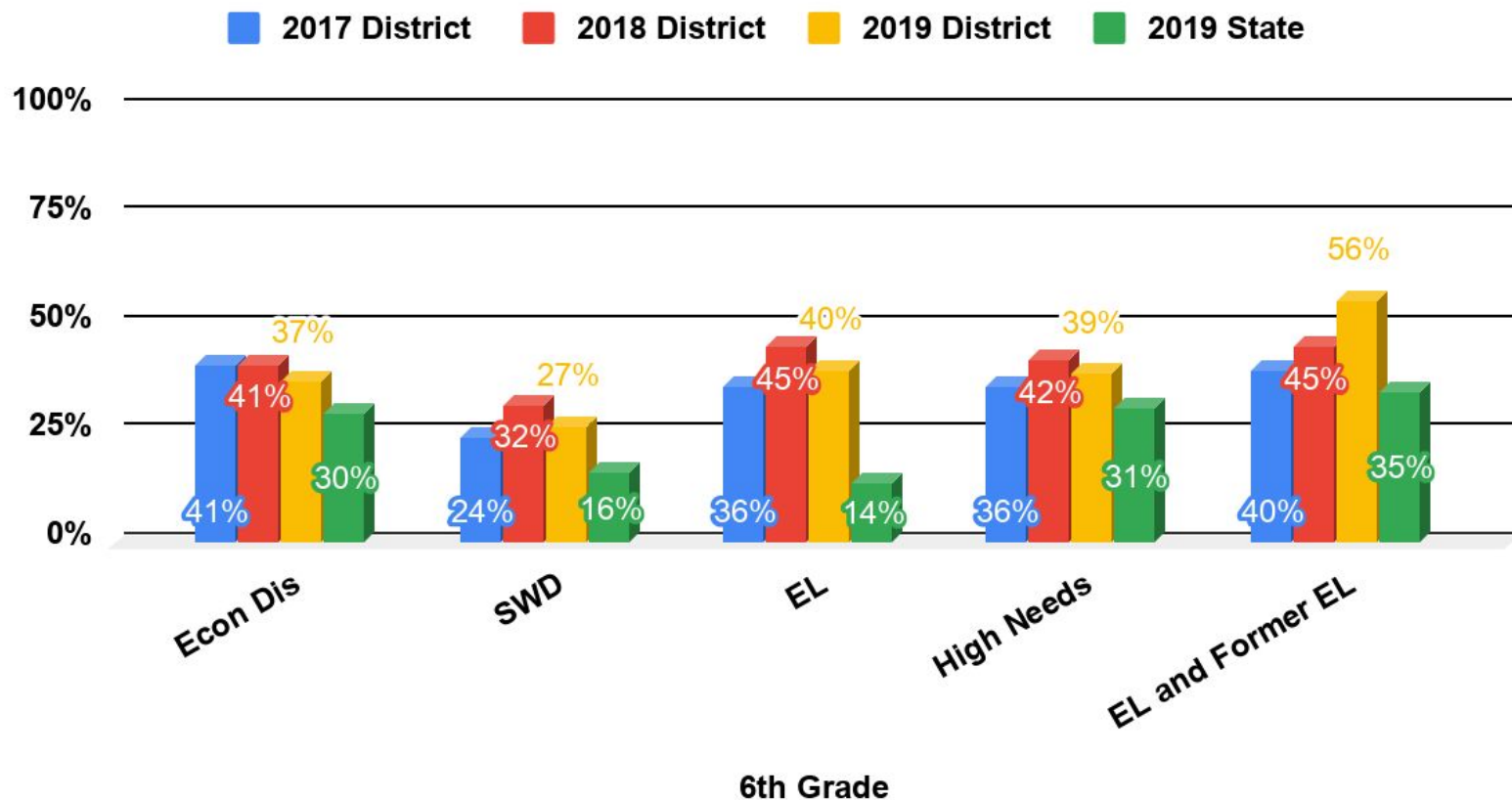
# 5th Grade Math Subgroup Meeting/Exceeding Results



# 6th Grade Math Race/Ethnicity/Gender Meeting/Exceeding Results

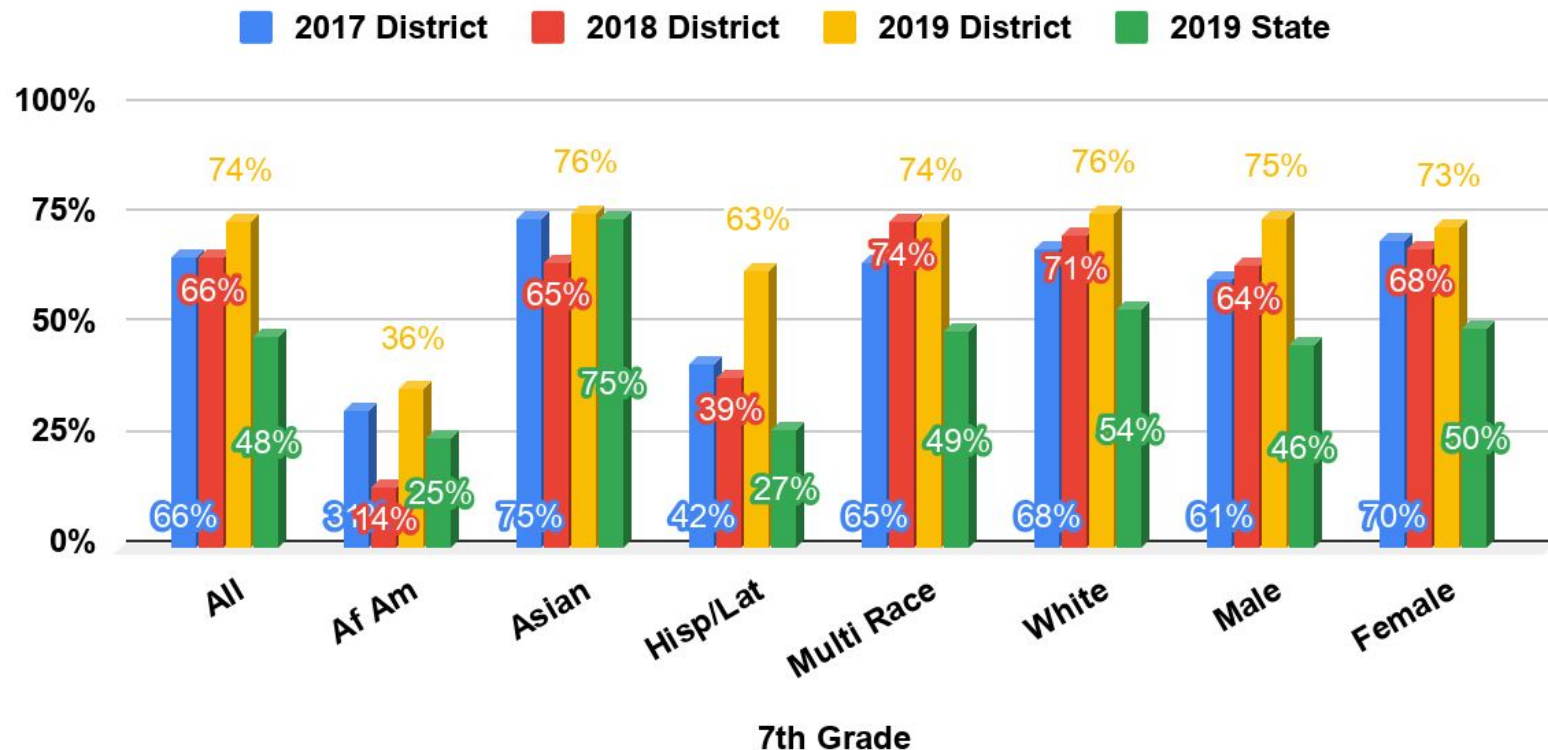


# 6th Grade Math Subgroup Meeting/Exceeding Results

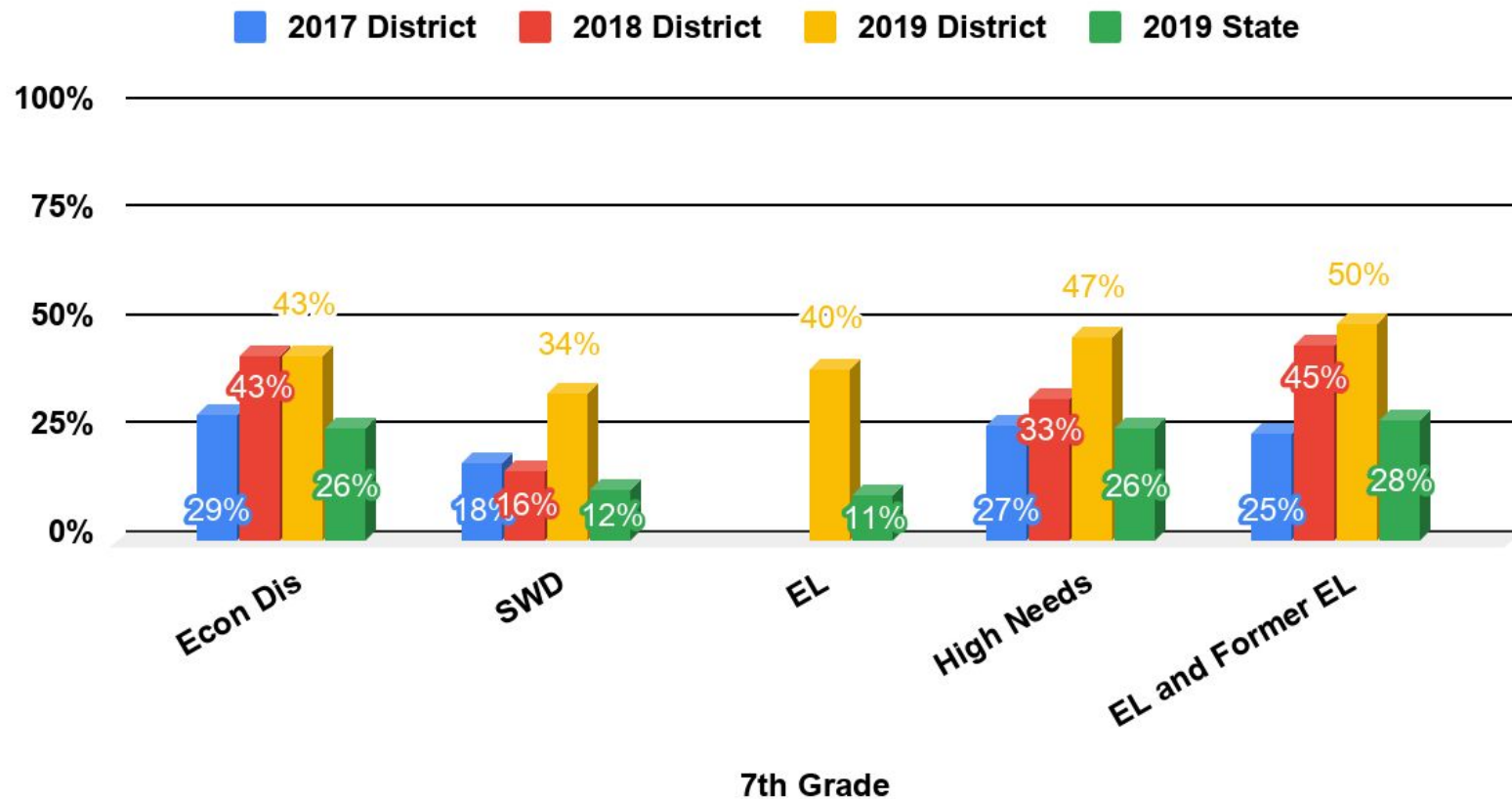




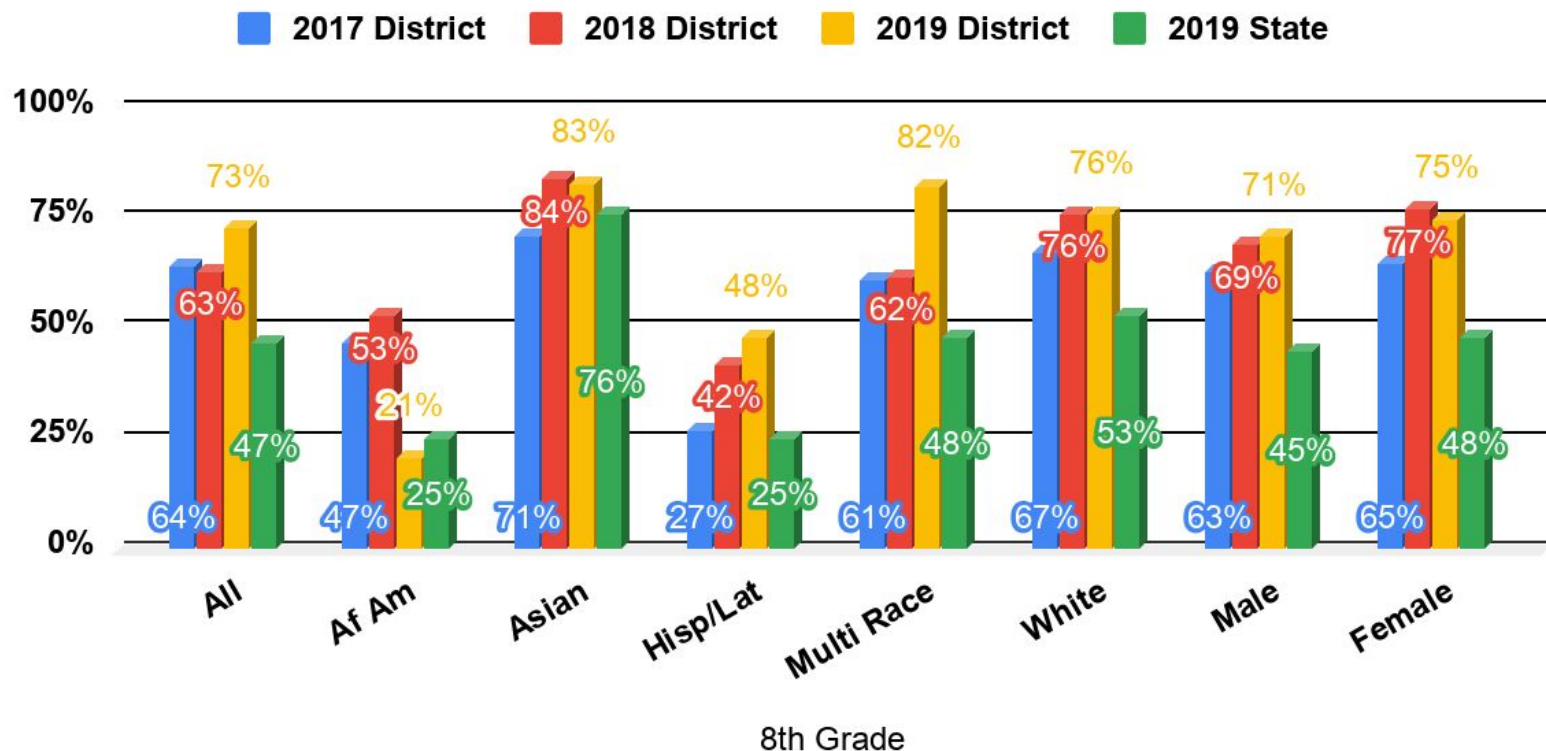
# 7th Grade Math Race/Ethnicity/Gender Meeting/Exceeding Results



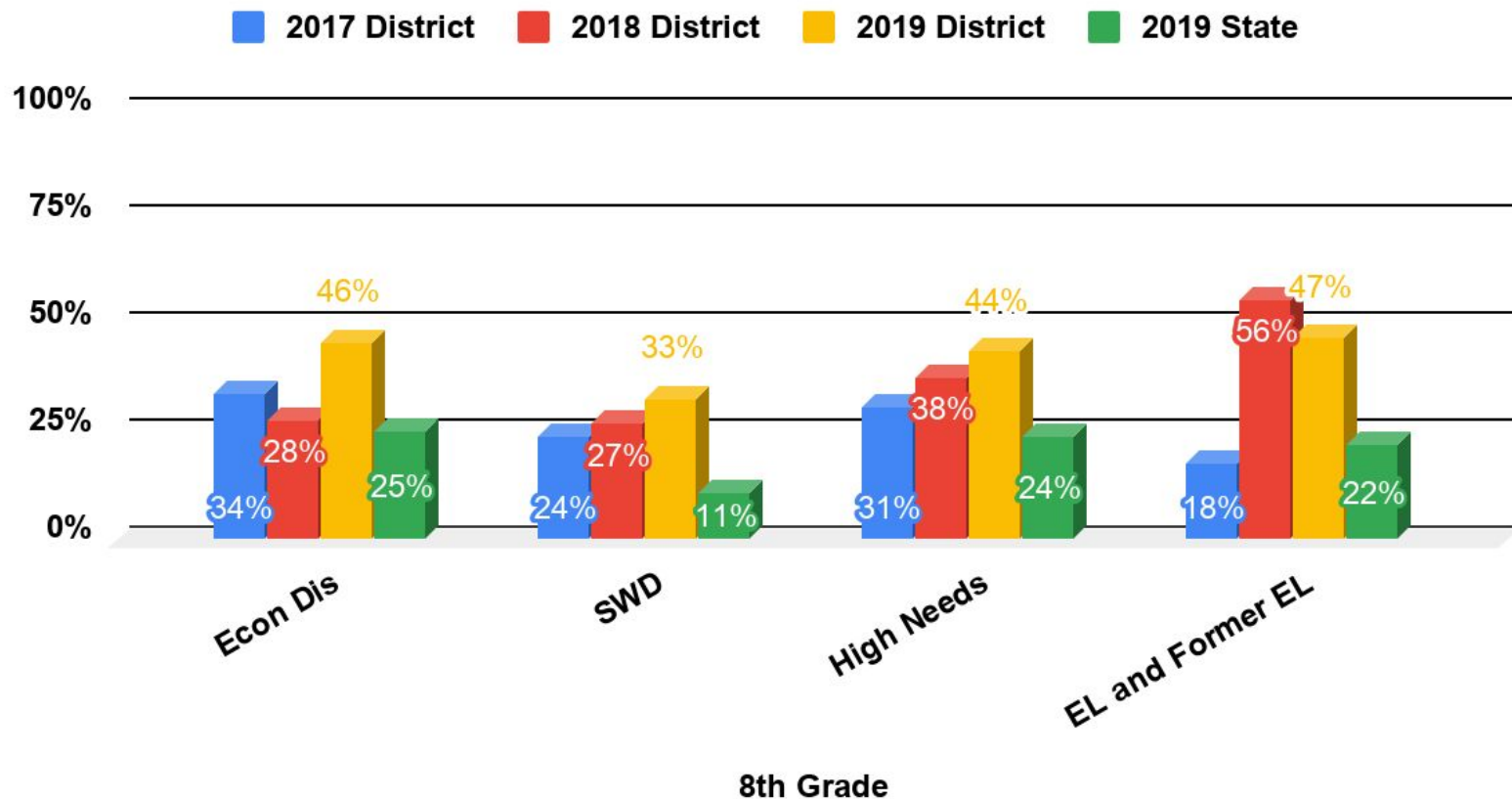
# 7th Grade Math Subgroup Meeting/Exceeding Results



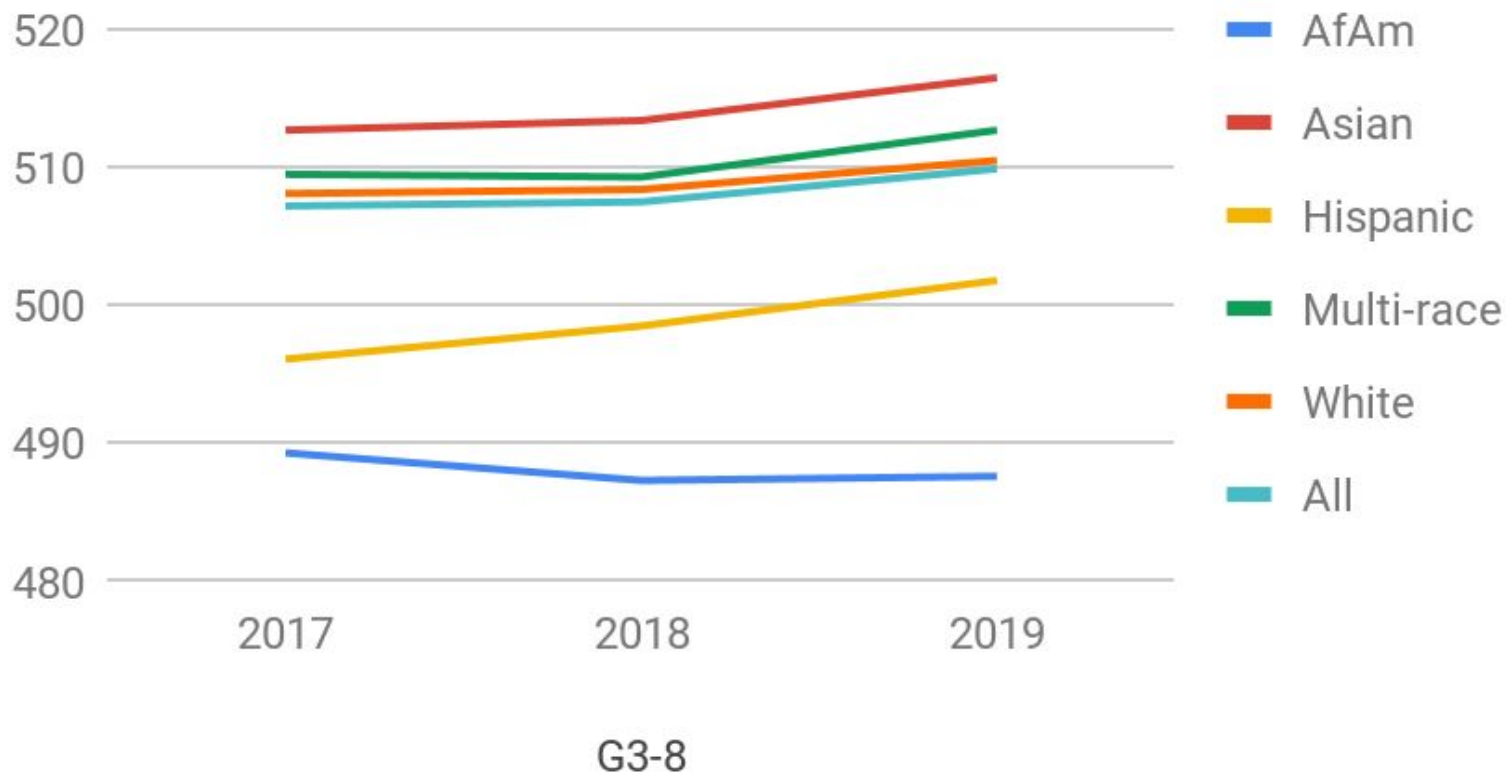
# 8th Grade Math Race/Ethnicity/Gender Meeting/Exceeding Results



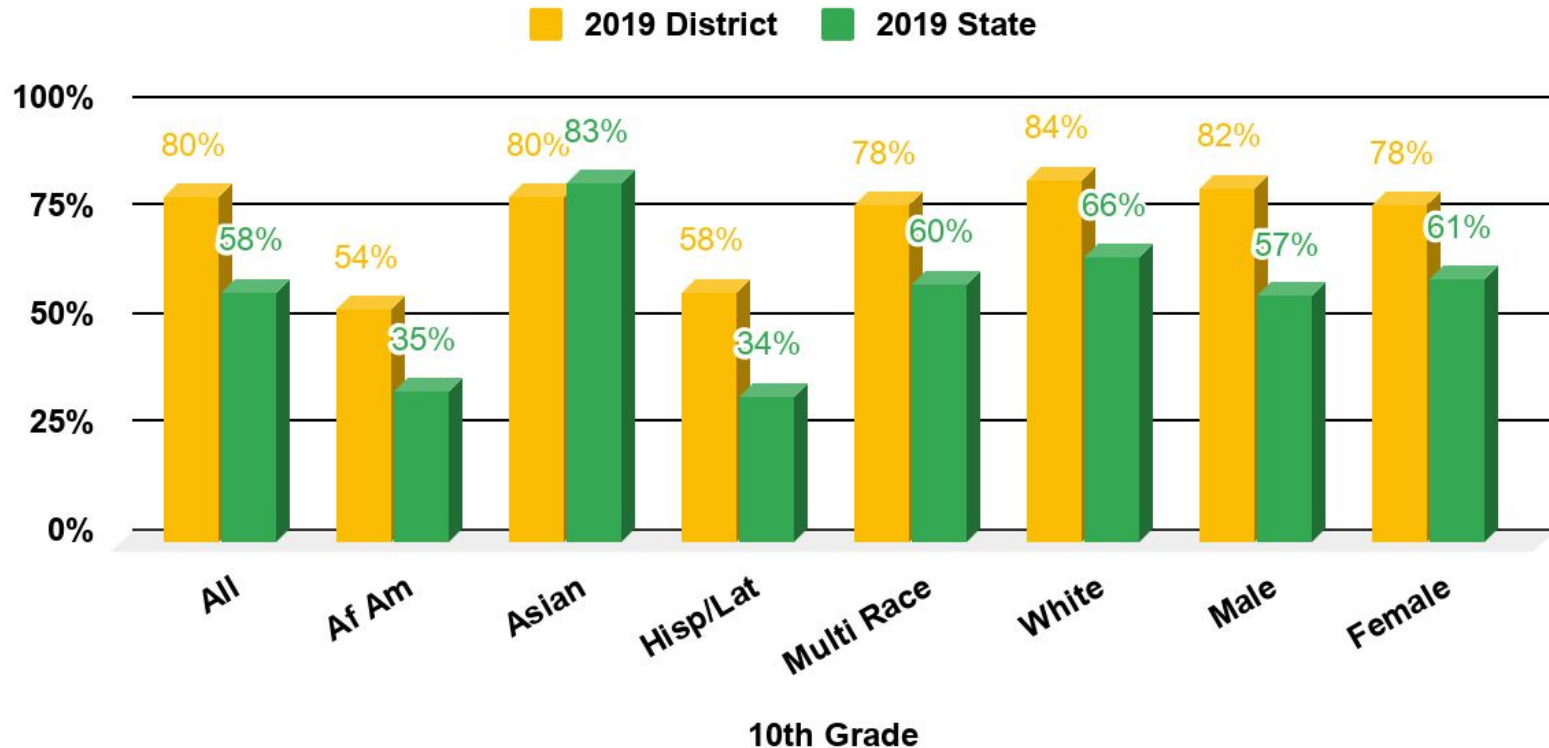
# 8th Grade Math Subgroup Meeting/Exceeding Results



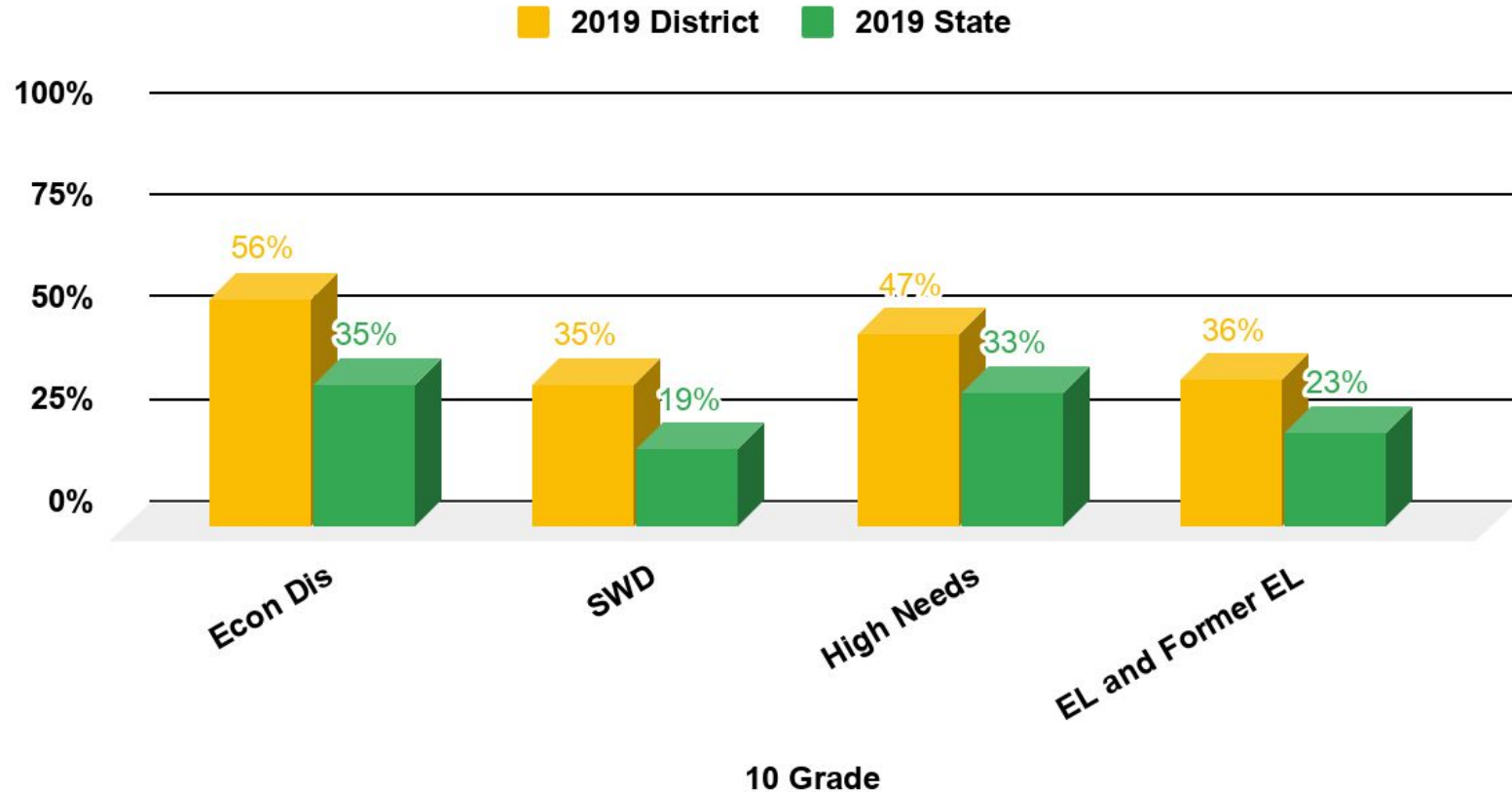
## G3-8 Math Average Scaled Score 2017, 2018 and 2019




# 10th Grade Math Race/Ethnicity/Gender Meeting/Exceeding Results



# 10th Grade Math Subgroup Meeting/Exceeding Results



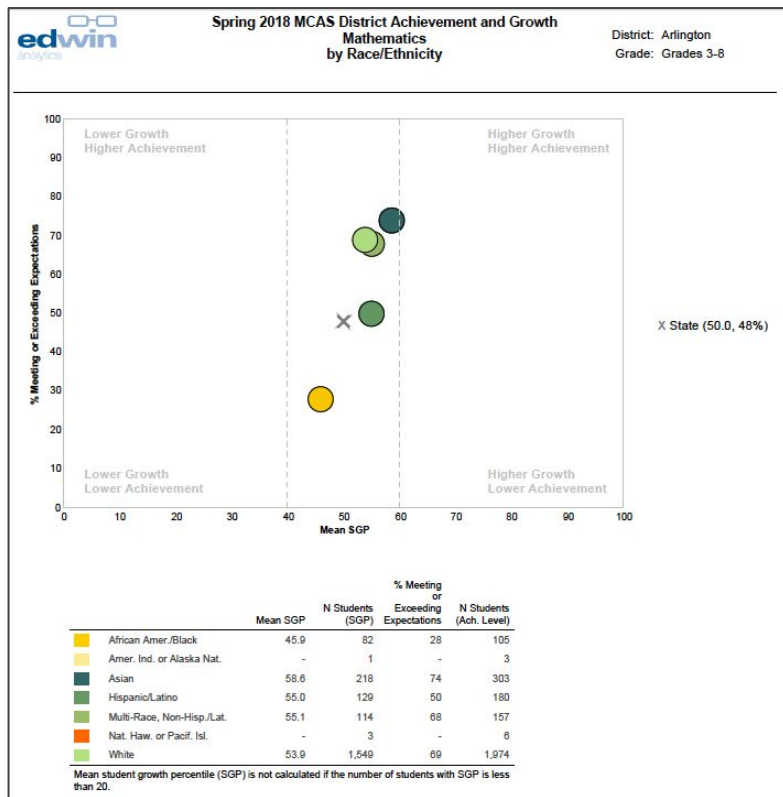


# Grades 3-8 Math Student Growth Percentiles (SGP)

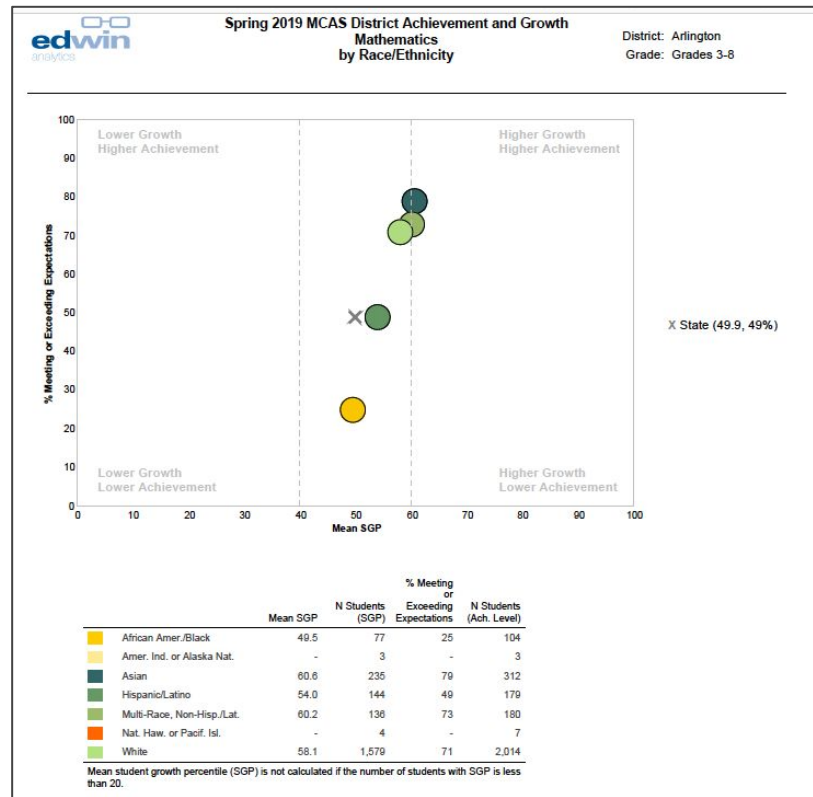


# District G3-8 Math % Meeting/Exceeding x SGP by Race/Ethnicity

2018

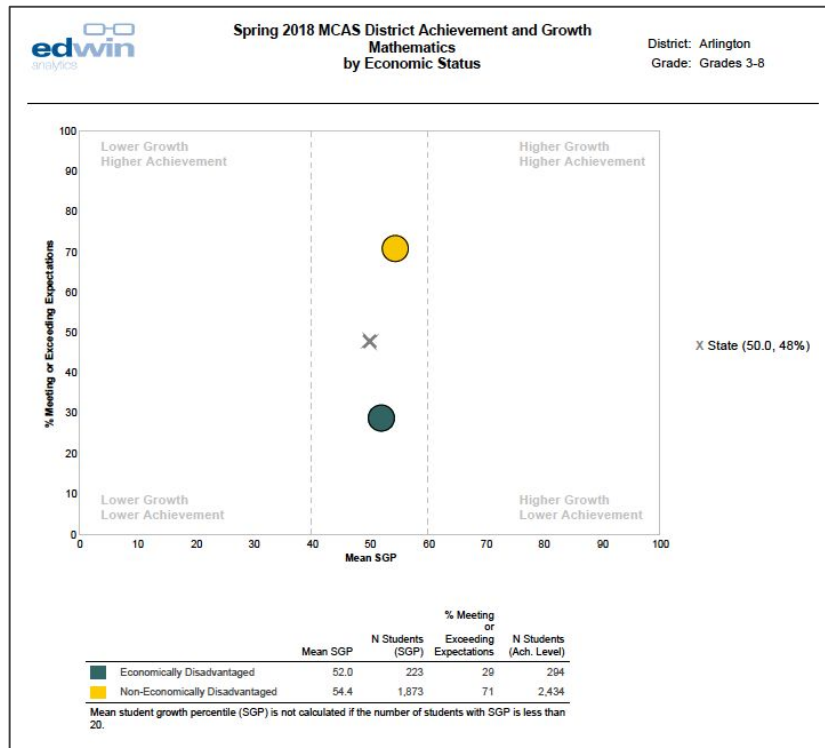


2019

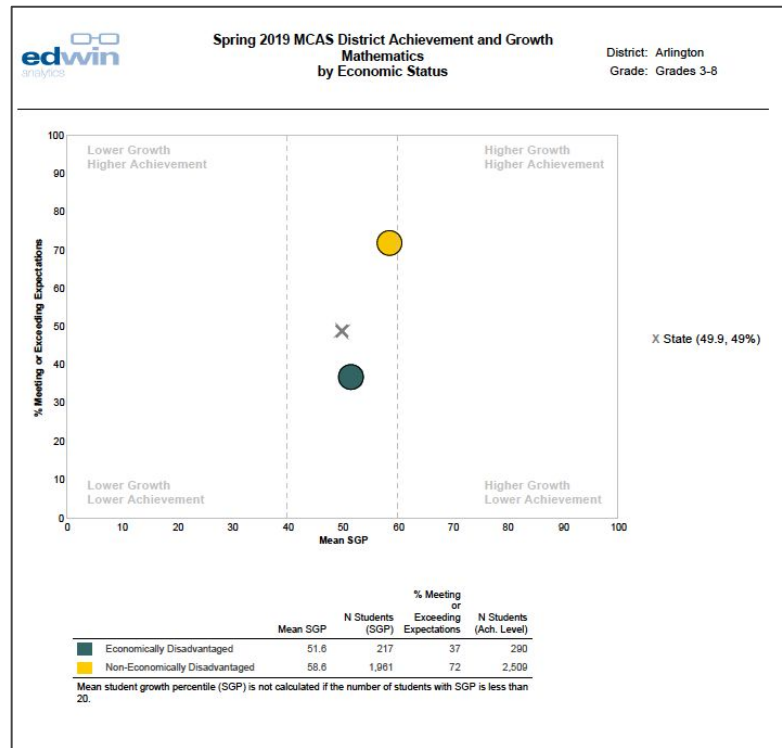


# District G3-8 Math % Meeting/Exceeding x SGP by Economic Status

2018

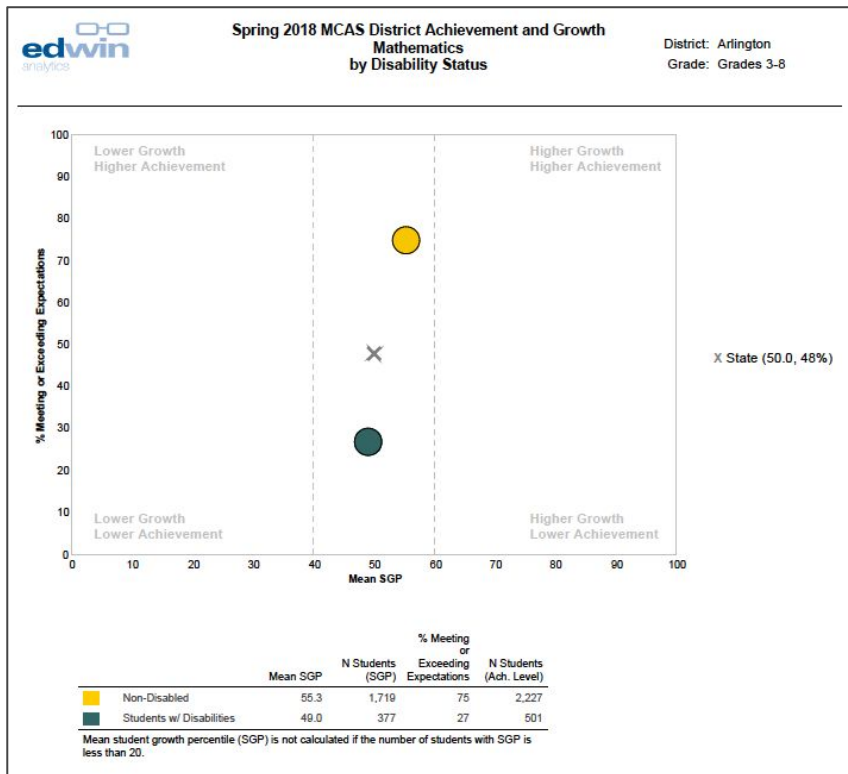


2019

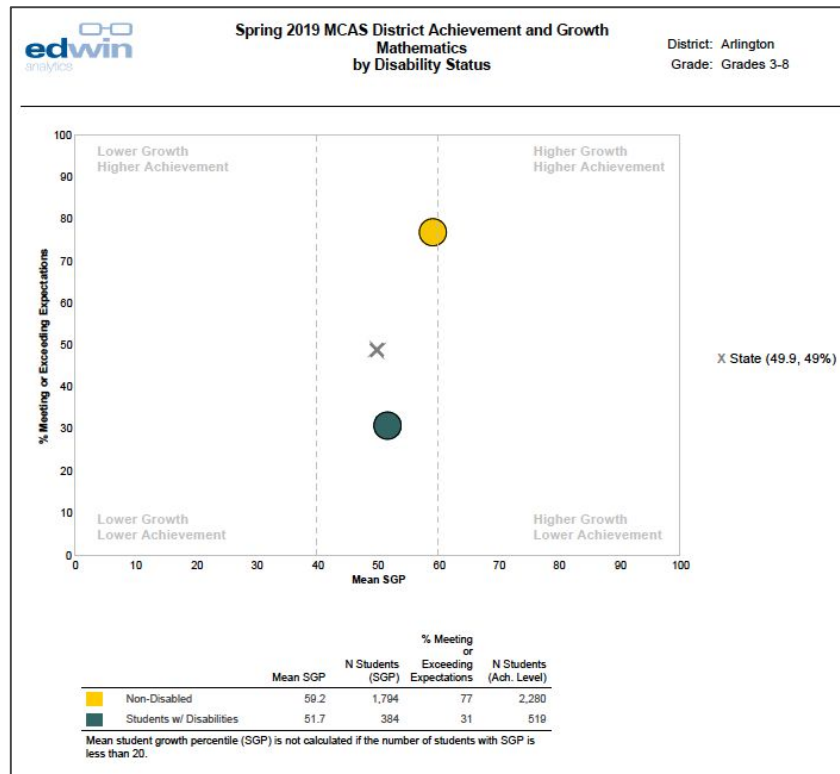


# District G3-8 Math % Meeting/Exceeding x SGP by Disability Status

2018

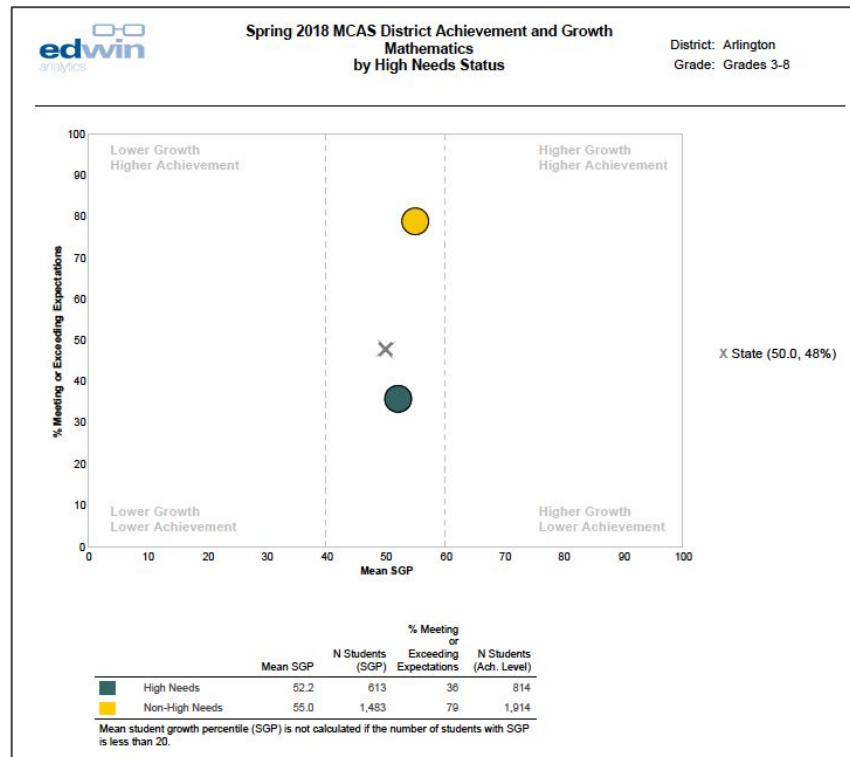


2019

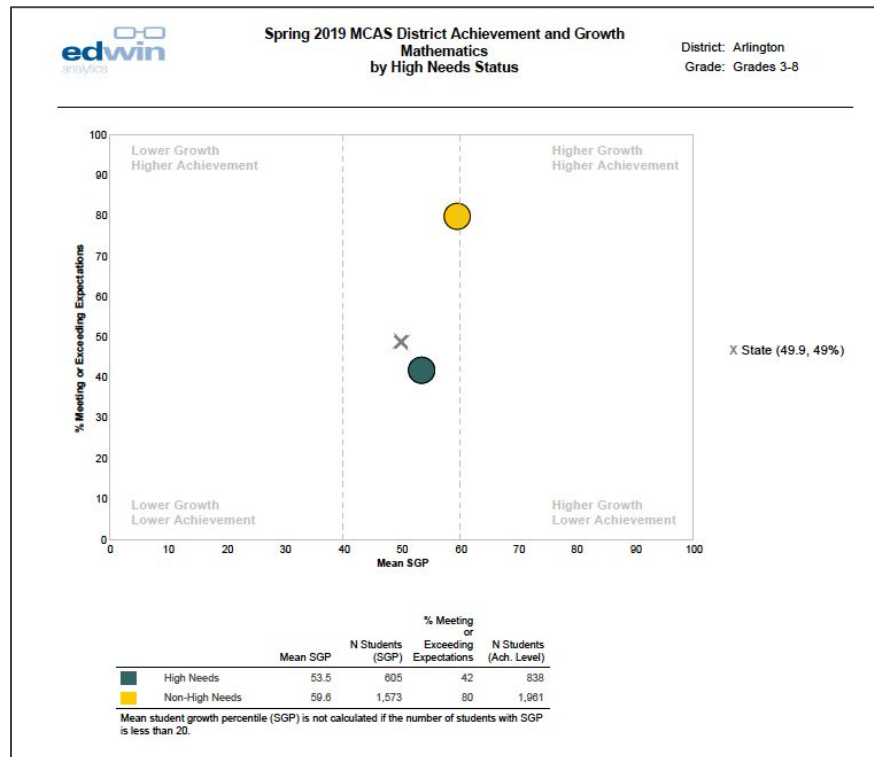


# District G3-8 Math % Meeting/Exceeding x SGP by High Needs Status

2018

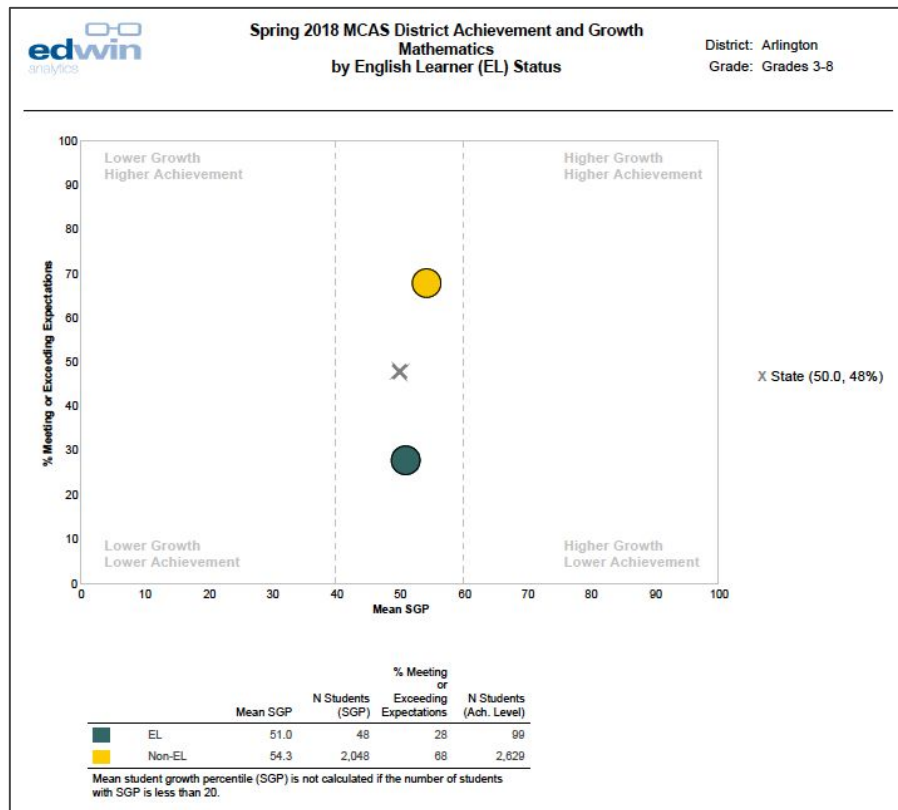


2019

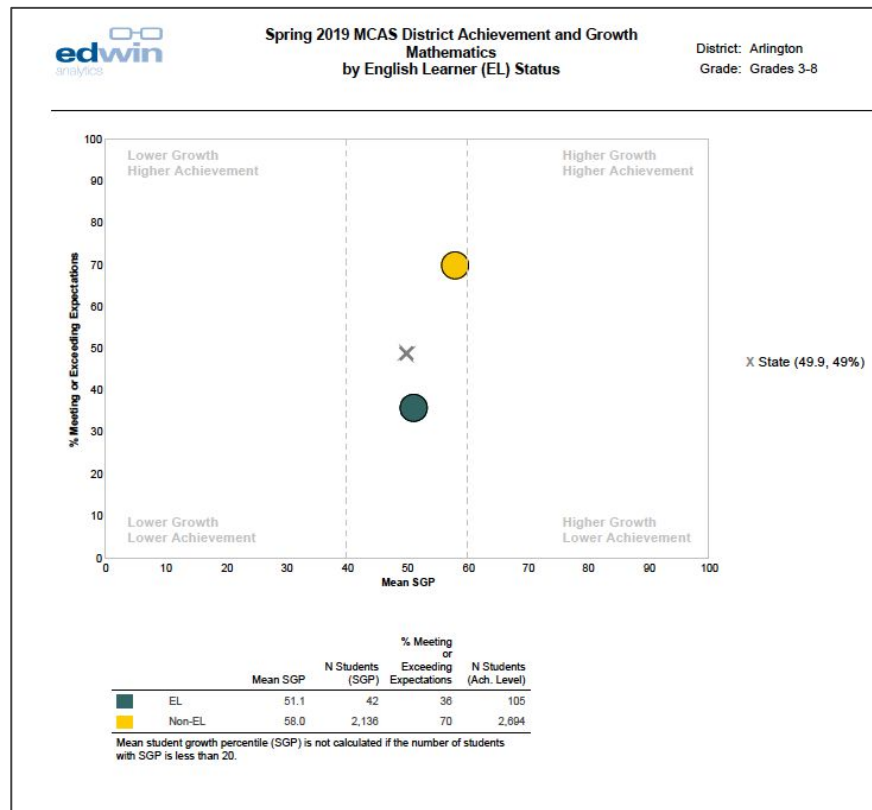


# District G3-8 Math % Meeting/Exceeding x SGP by English Learner Status

2018

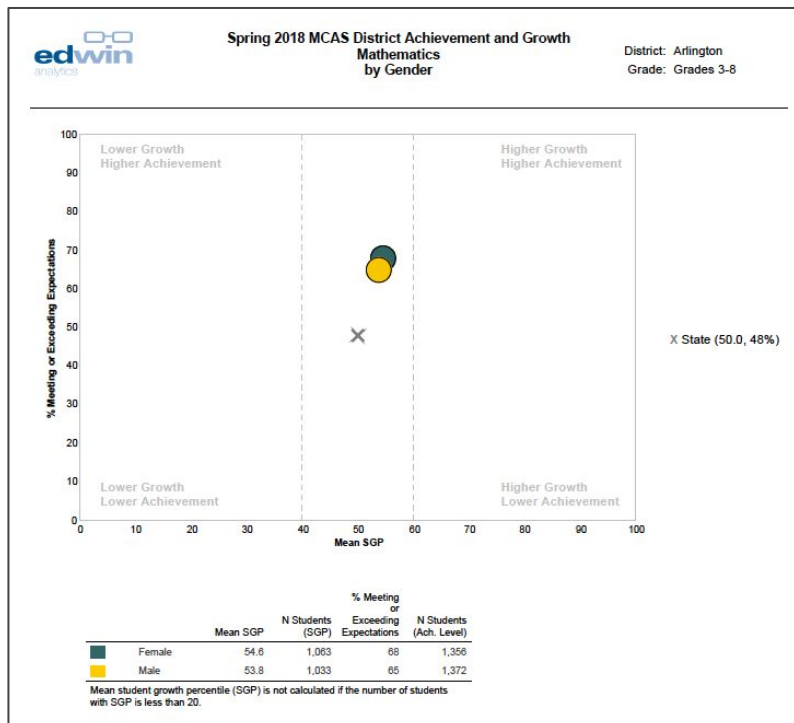


2019

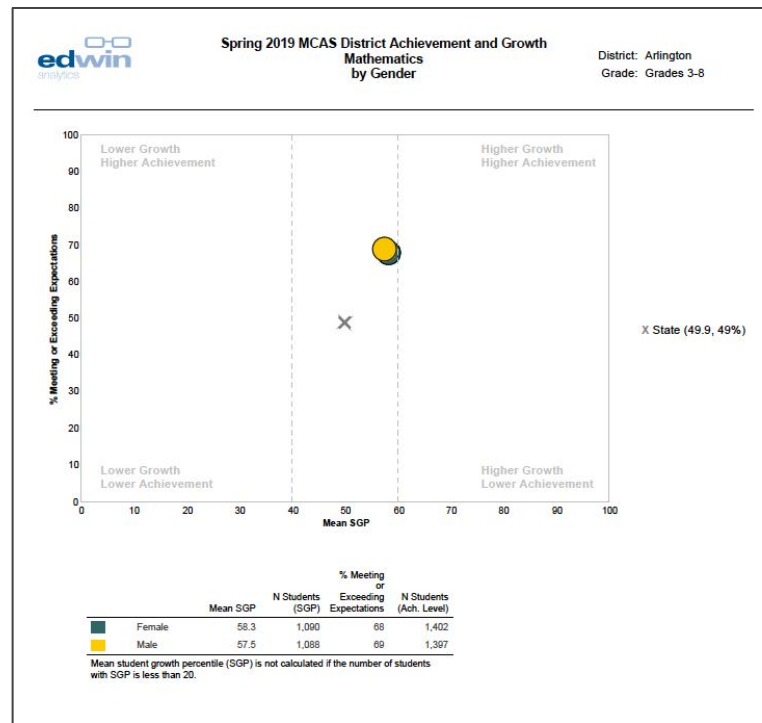


# District G3-8 Math % Meeting/Exceeding x SGP by Gender

2018

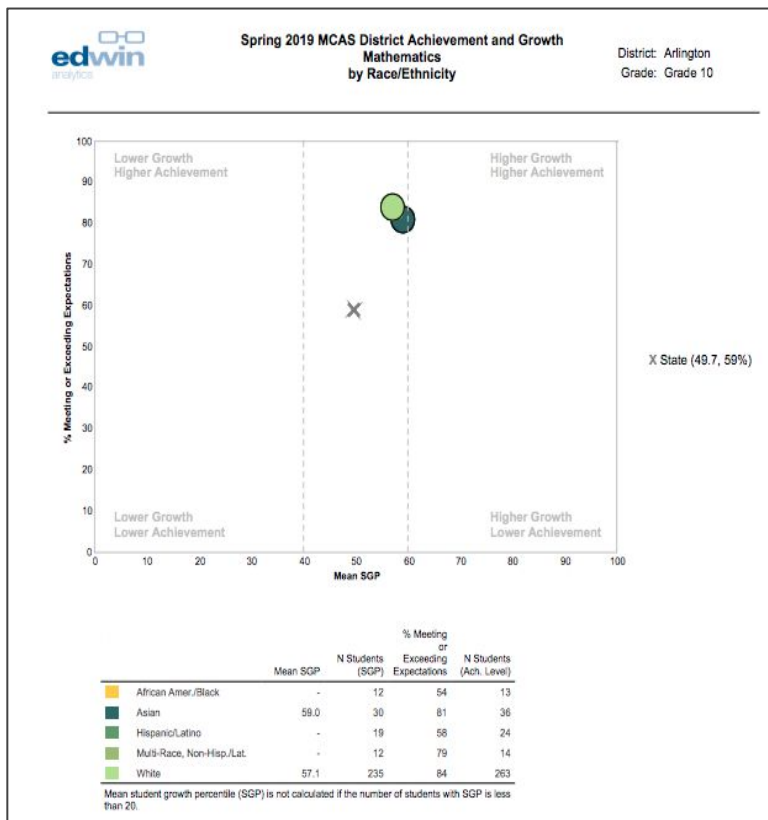


2019

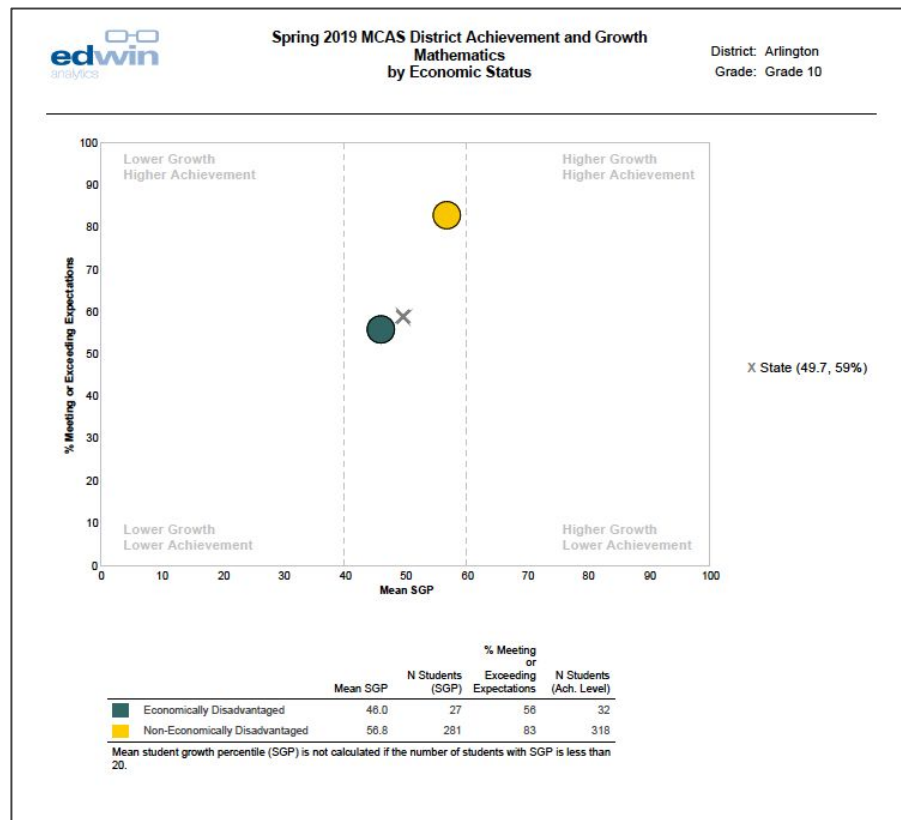


# District G10 Math % Meeting/Exceeding x SGP 2019

## Race/Ethnicity

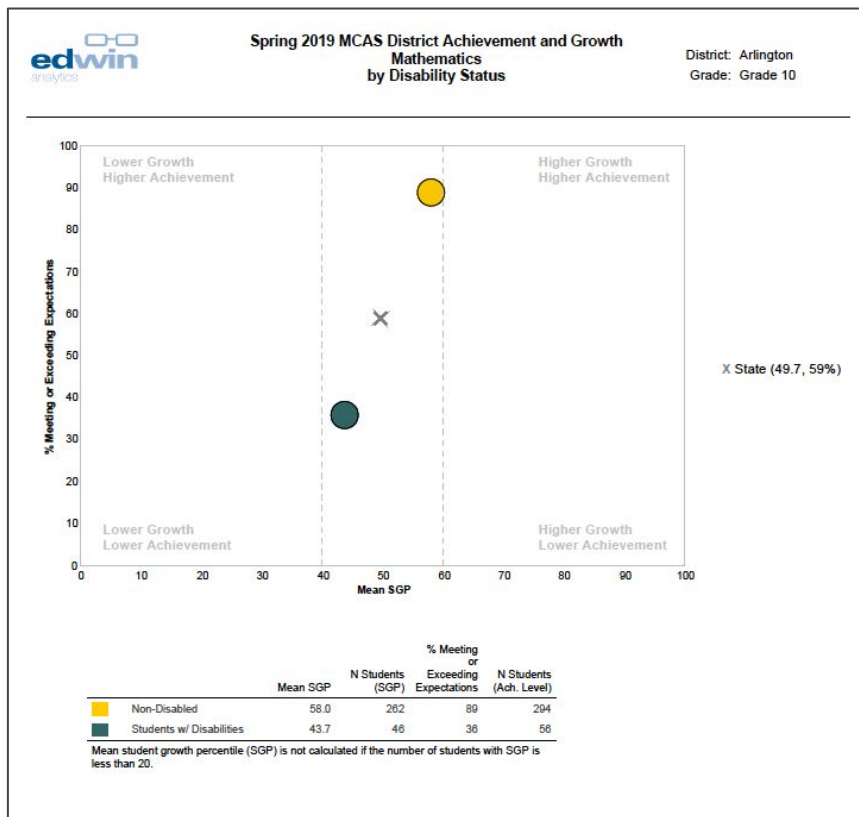


## Economic Status

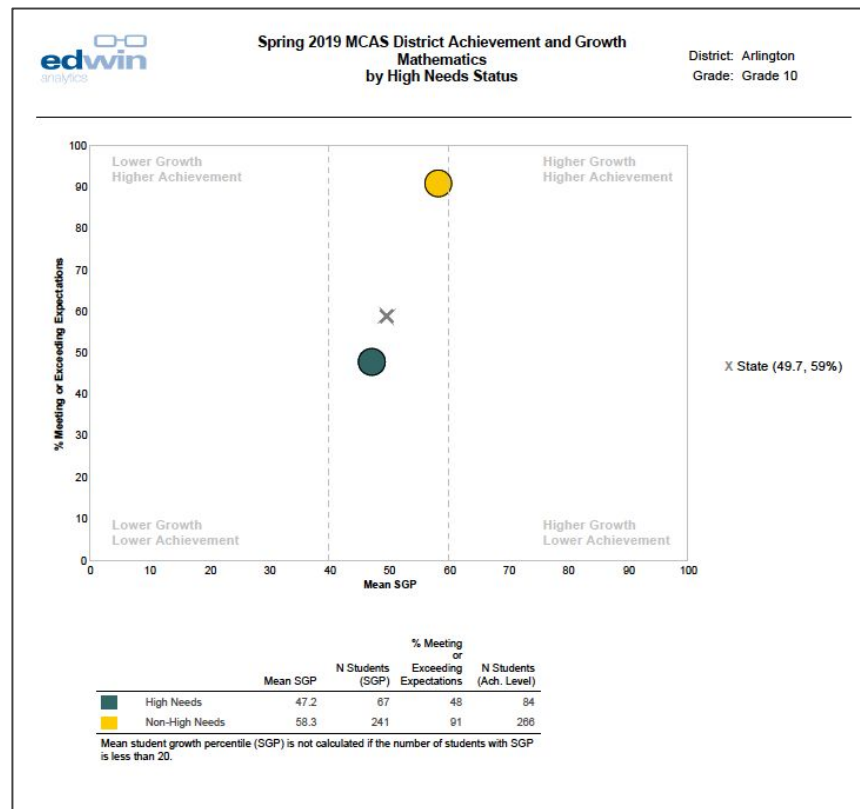


# District G10 Math % Meeting/Exceeding x SGP 2019

## Disability Status



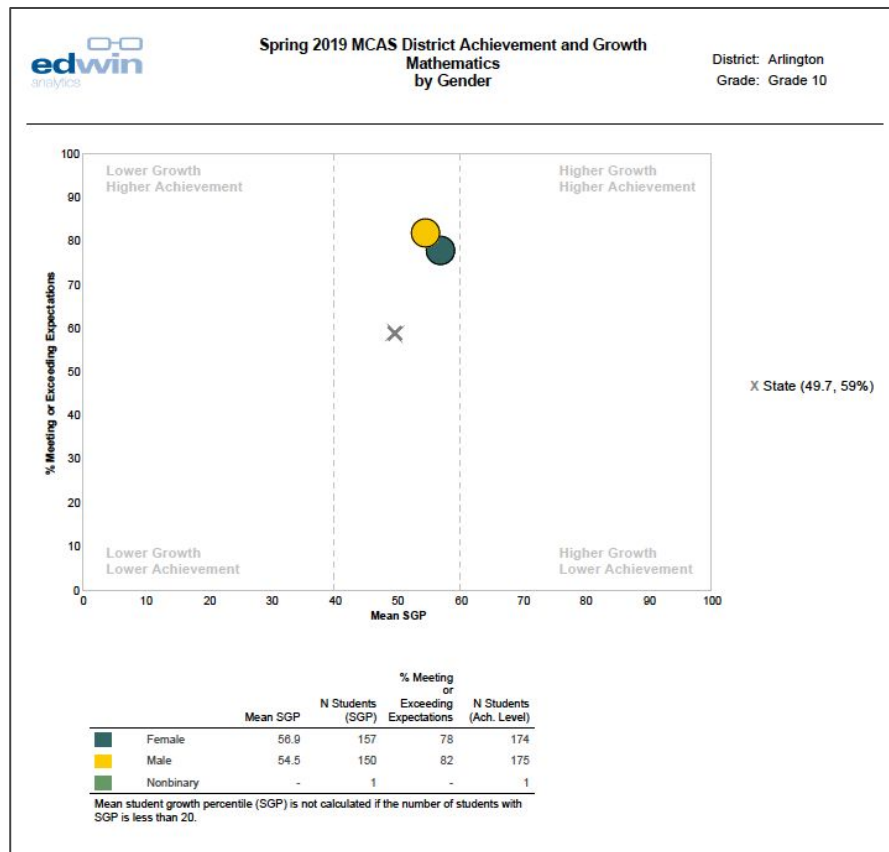
## High Needs Status






# District G10 Math % Meeting/Exceeding x SGP 2019

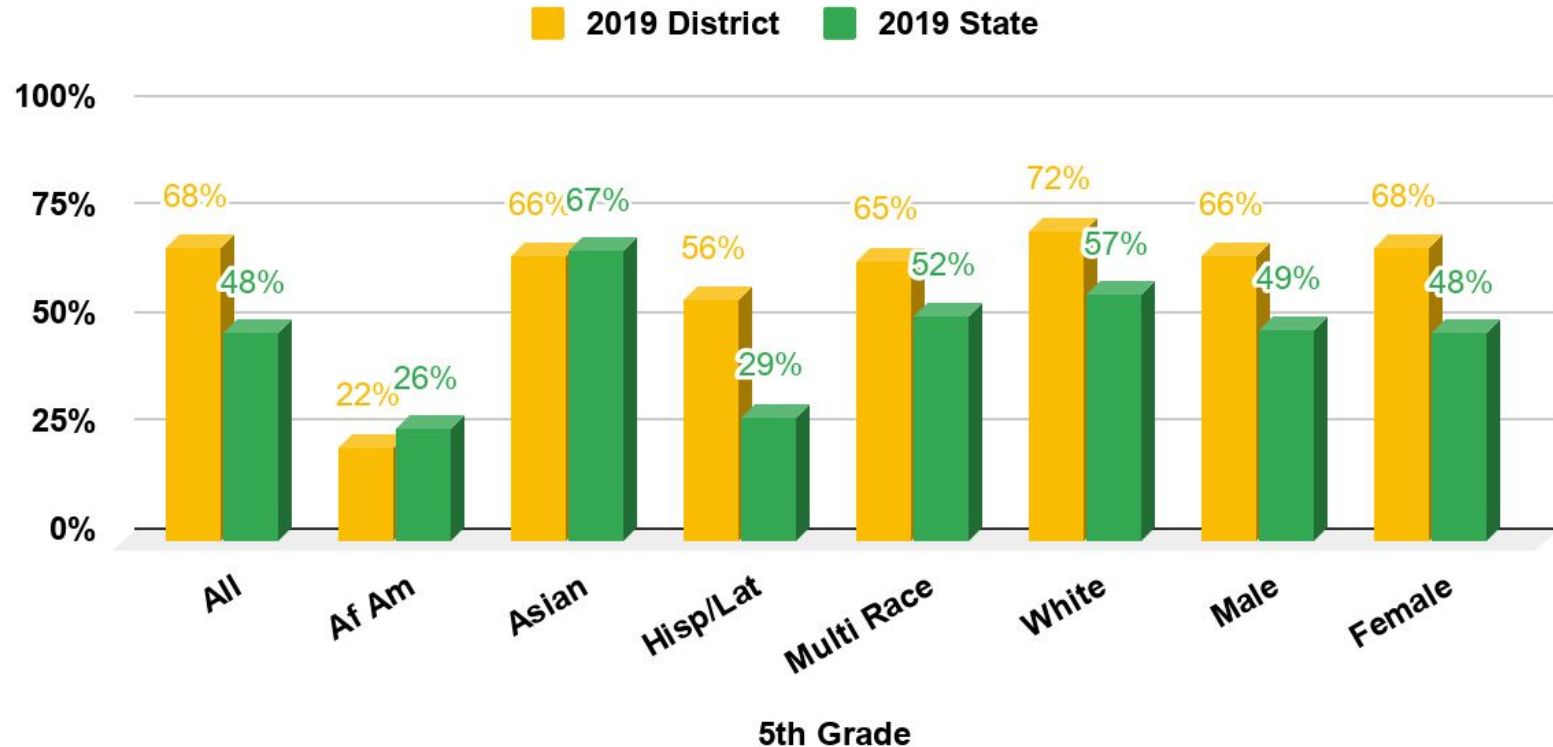
## Gender



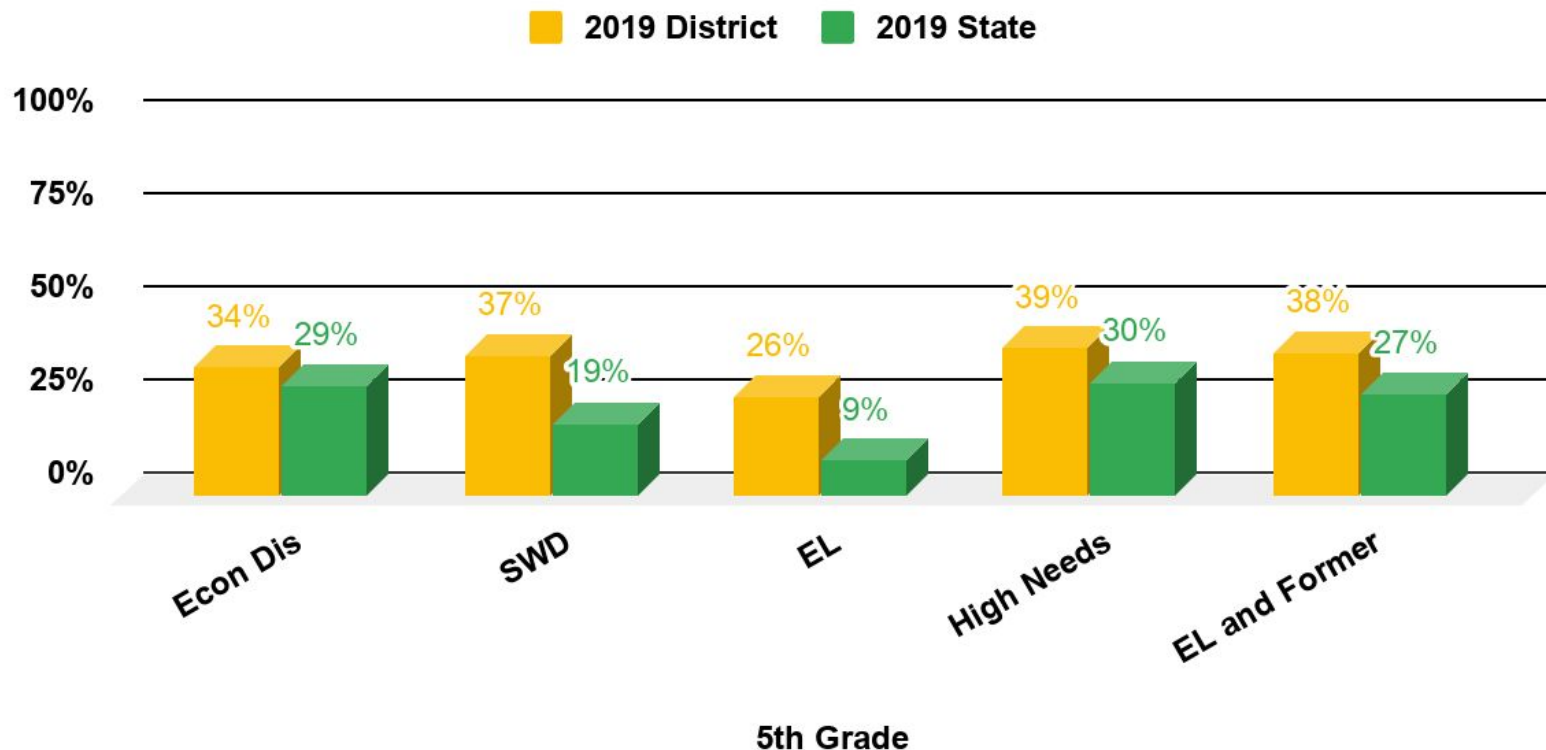


# 2019 Science/Technology and Engineering Subgroup Achievement Results

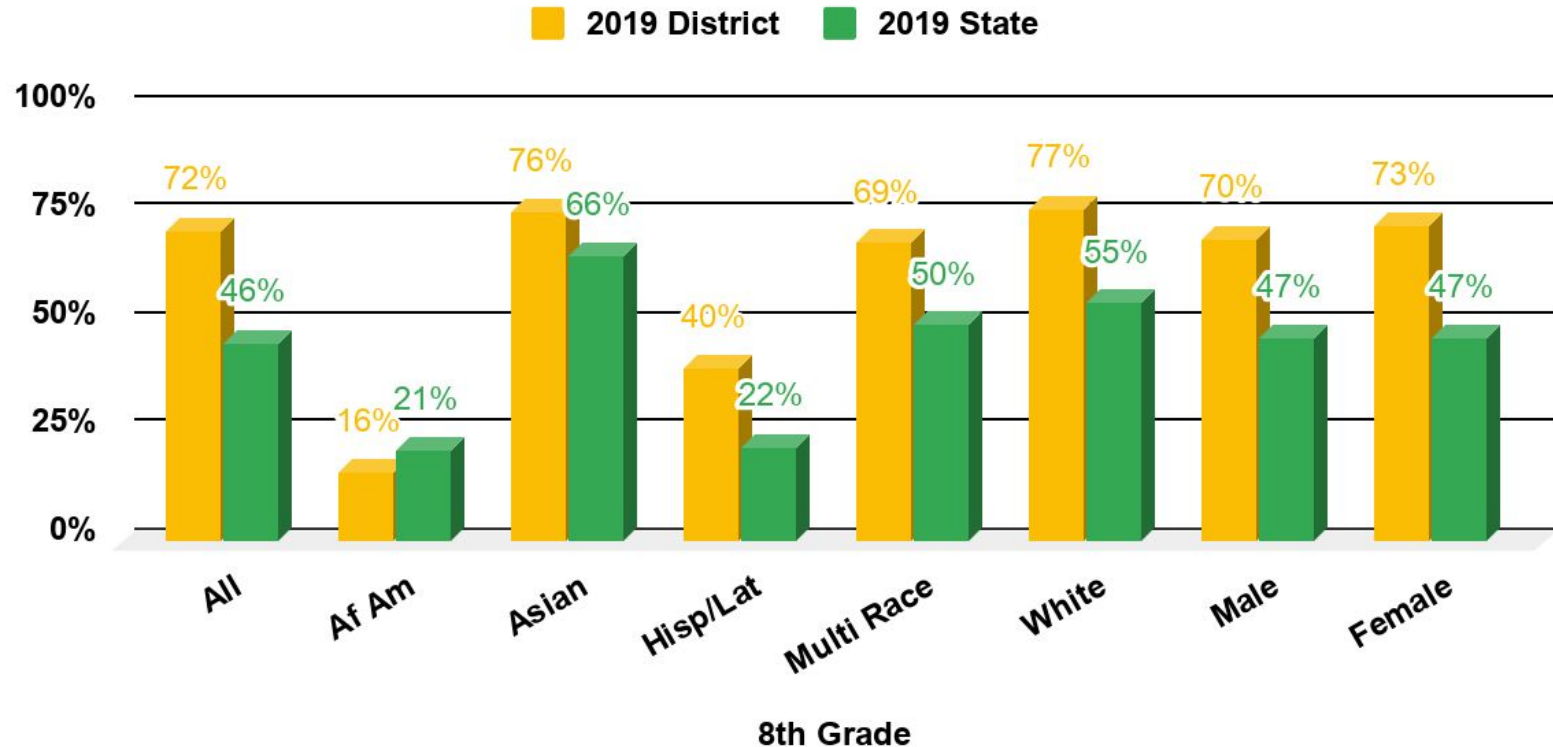
# 5th Grade Science/Technology and Engineering Race/Ethnicity/Gender Meeting/Exceeding Results



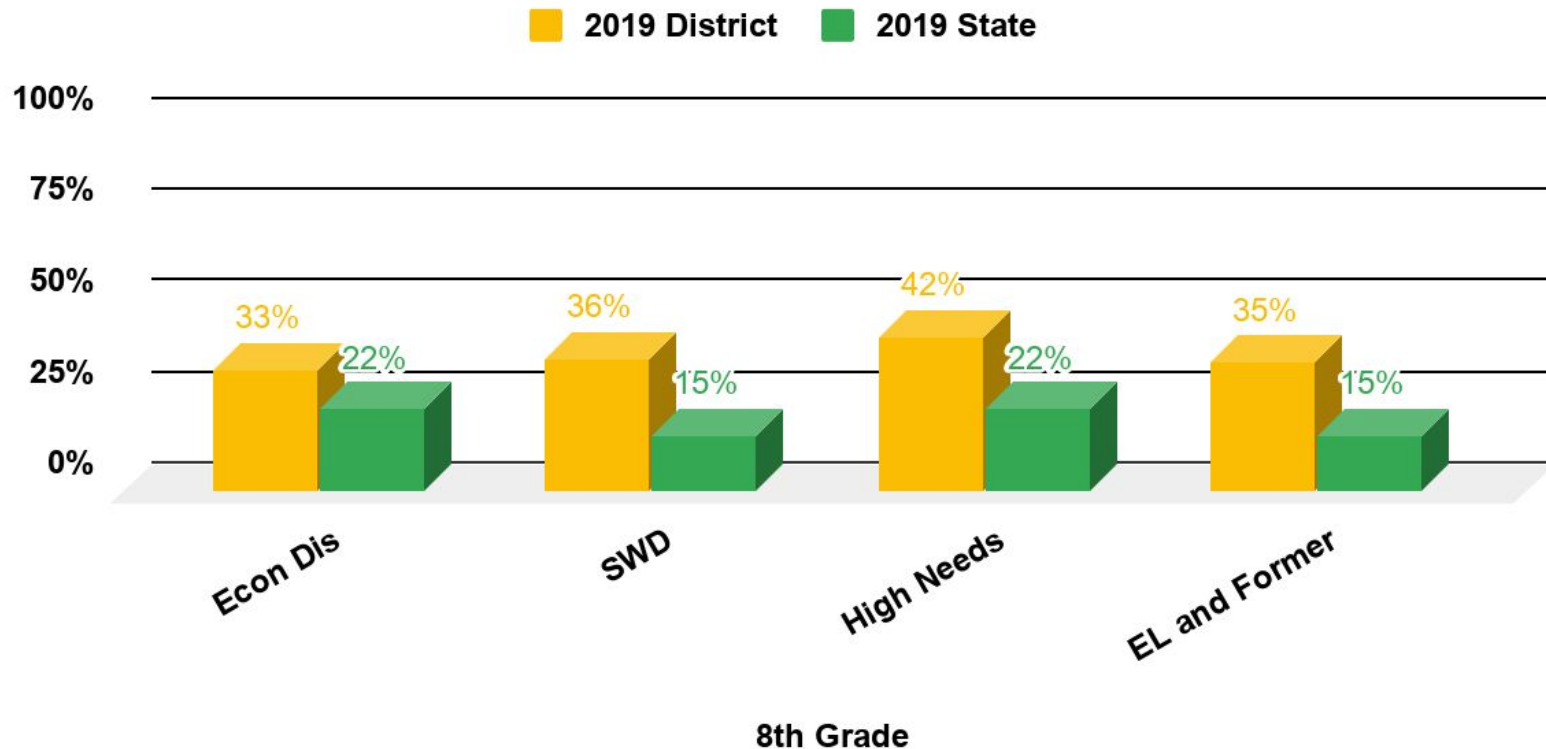
# 5th Grade Science/Technology/Engineering Subgroup Meeting/Exceeding Results



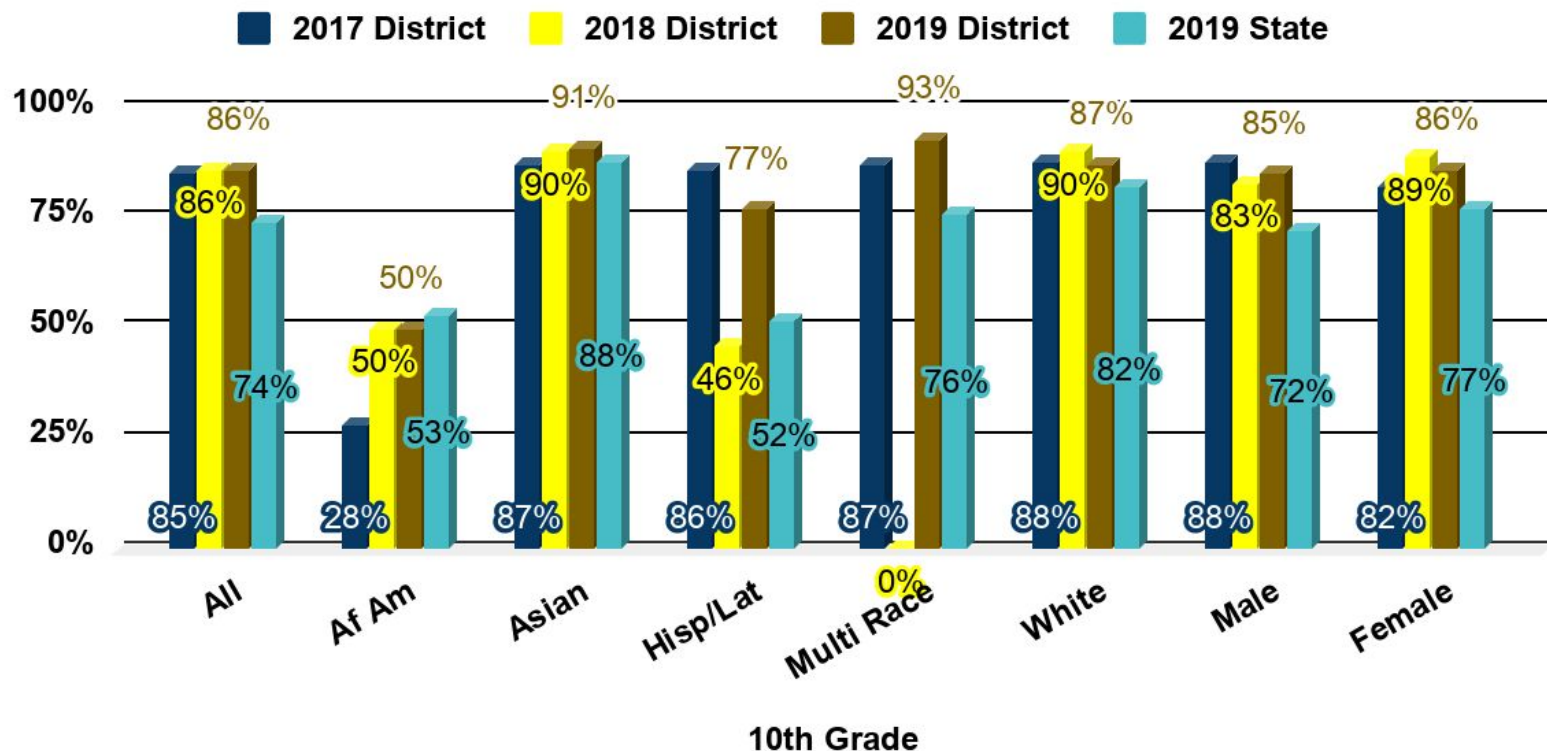
# 8th Grade Science/Technology and Engineering Race/Ethnicity/Gender Meeting/Exceeding Results



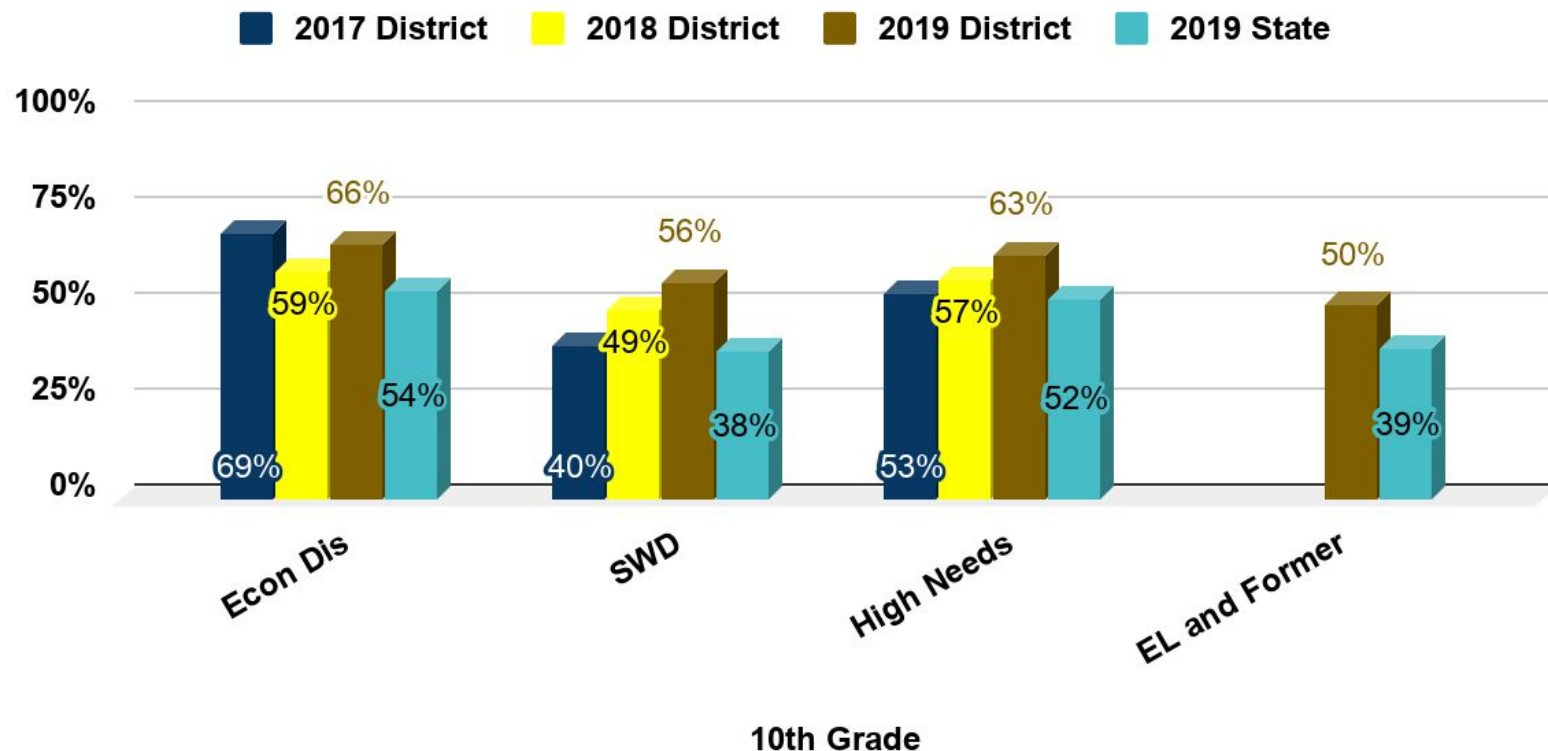
# 8th Grade Science/Technology/Engineering Subgroup Meeting/Exceeding Results



# 10th Grade Science/Technology and Engineering Race/Ethnicity/Gender Proficient/Advanced Results



# 10th Grade Science/Technology/Engineering Subgroup Proficient/Advanced Results





# Questions/Comments