

MCAS Spring 2022

for SPS School Committee

Monday, November 21, 2022

Before we begin, some things to keep in mind...

Our 2022 MCAS assessment was the first full administration of the exam for students in grades 3-8 and 10. 10th grade students haven't taken a full exam since they were in the 7th grade. Students in grades 3 - 5 had never taken a full exam until this year.

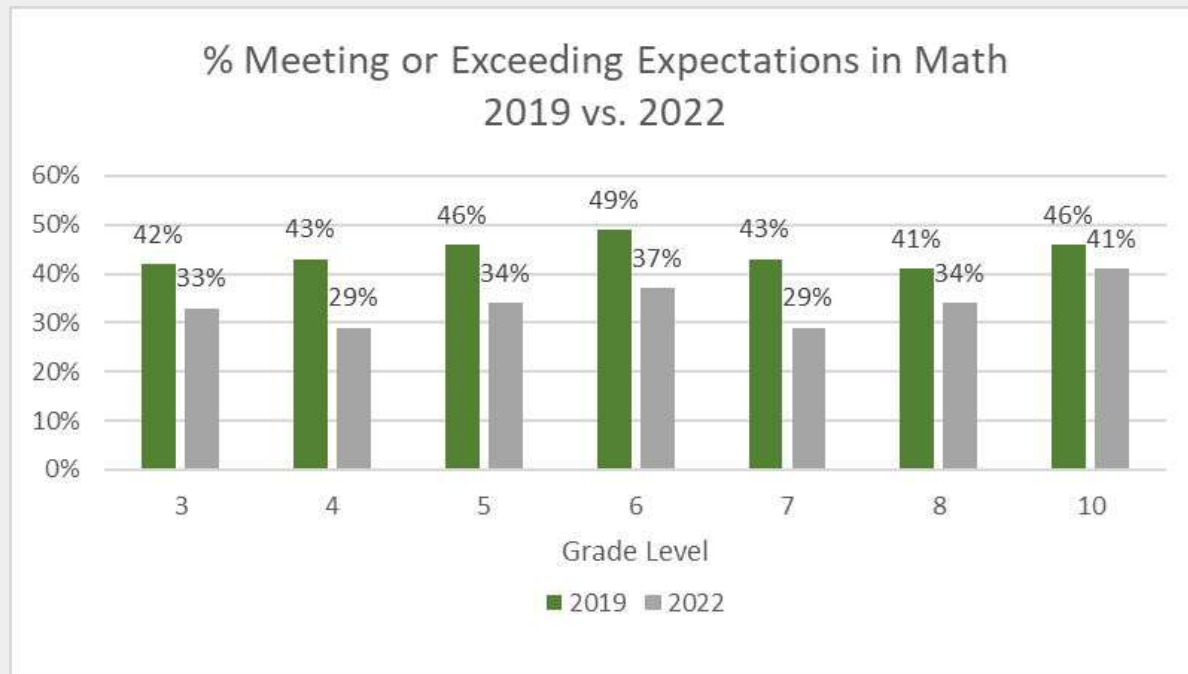
Year	Grades 3-8	Grade 10
2019	Full test administration	Full test administration
2020	No tests administered	No tests administered
2021	Half-test administered	Full test administered
2022	Full test administered	Full test administered

Districtwide Achievement and Growth

Districtwide Achievement in Math

As you can see in the graph to the right, the percentage of students meeting or exceeding expectations on the MCAS has dropped significantly from 2019 to now (2022).

There was a **14 percentage point decrease** in % meeting or exceeding among the 4th and 7th grade bands.



How does SPS compare to USN and the State in Math?

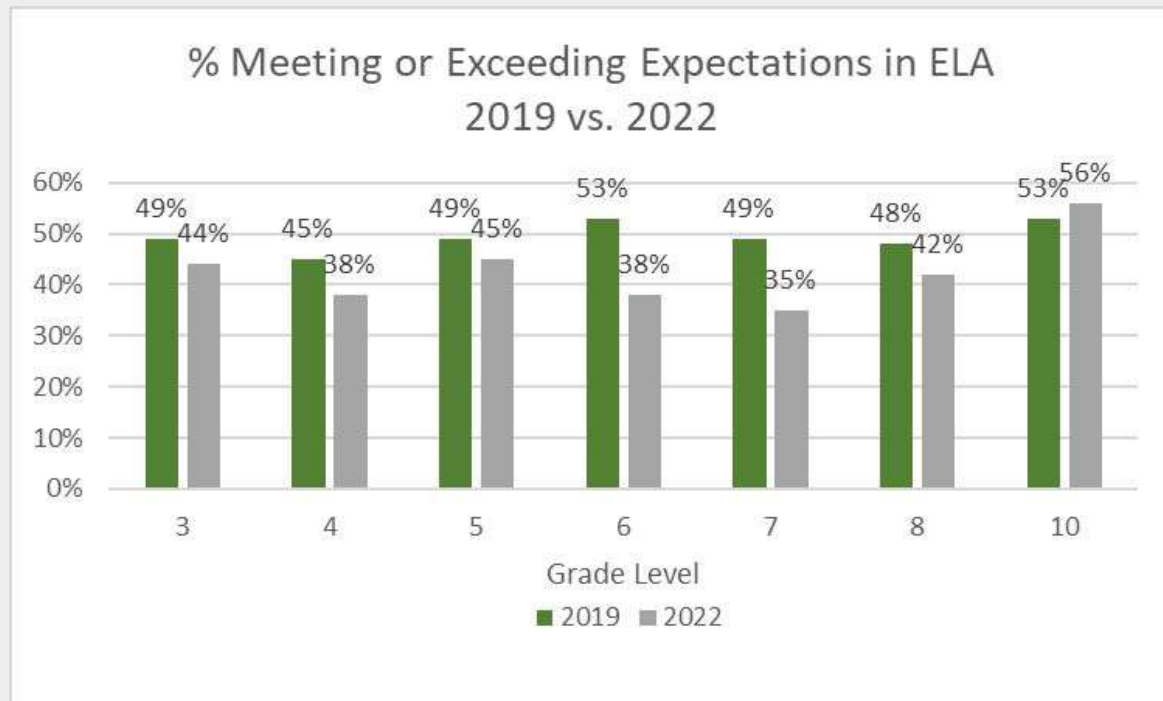
Grade	Group	2019 %ME	2021 %ME	2022 %ME	Change %ME 19-21	Change %ME 21-22	Change %ME 19-22
3-8	Somerville	44	24	33	-20	+9	-11
	*USN	34	18	23	-16	+5	-11
	State	49	33	39	-16	+6	-10
10	Somerville	46	40	41	-6	+1	-5
	*USN	40	32	31	-8	-1	-9
	State	59	52	50	-7	-2	-9

*Note: USN = Urban Superintendents' Network

Districtwide Achievement in ELA

Interestingly, there was more fluctuation in the % of students meeting or exceeding expectations in ELA.

There was a **15 percentage point decrease** in %ME among 6th grade test takers. Meanwhile, there was a **3 percentage point increase** in %ME among 10th grade test takers.



How does SPS compare to USN and the State in ELA?

Grade	Group	2019 %ME	2021 %ME	2022 %ME	Change %ME 19-21	Change %ME 21-22	Change %ME 19-22
3-8	Somerville	49	41	41	-8	0	-8
	*USN	38	30	27	-8	-3	-11
	State	52	46	41	-6	-5	-11
10	Somerville	53	53	56	0	+3	+3
	*USN	43	44	41	+1	-3	-2
	State	61	64	58	+3	-6	-3

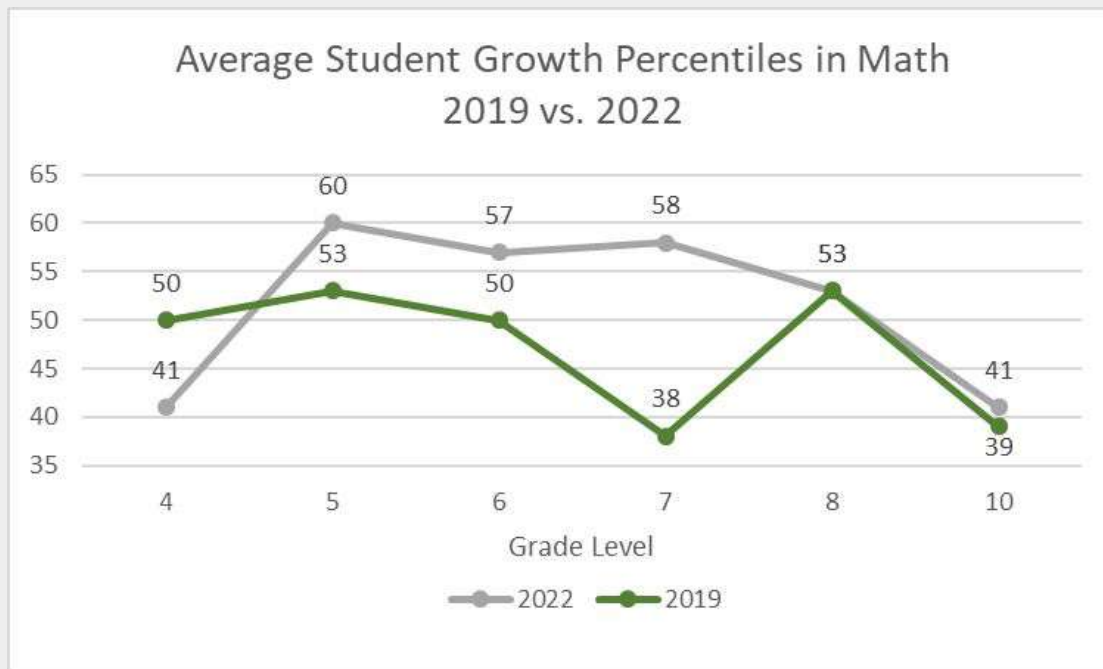
*Note: USN = Urban Superintendents' Network

How does SPS compare to USN and the State in Science?

Grade	Group	2019 %ME	2021 %ME	2022 %ME	Change %ME 19-21	Change %ME 21-22	Change %ME 19-22
5	Somerville	41	34	40	-7	+6	-1
	*USN	33	24	26	-9	+2	-7
	State	49	42	43	-7	+1	-6
8	Somerville	35	34	39	-1	+5	+4
	*USN	28	22	24	-6	+2	-4
	State	46	41	42	-5	+1	-4
10	Somerville			41			
	*USN			28			
	State			47			

*Note: USN = Urban Superintendents' Network

Districtwide Growth in Math



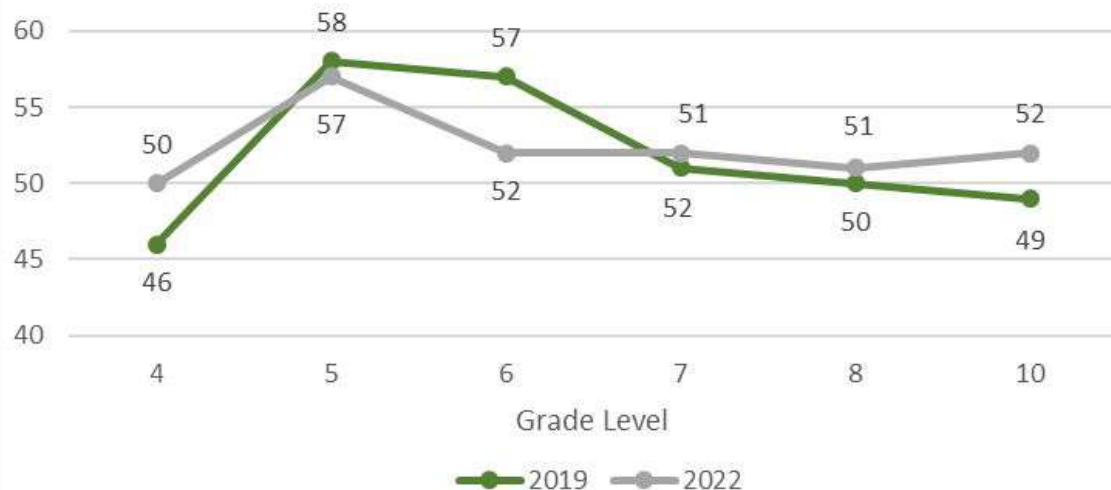
Student growth percentiles have fluctuated quite a bit between 2019 to now. The gap in growth is most apparent between 5th and 7th grade.

We can see differences as large as **20 percentile points** among 7th grade test takers, to no percentile differences among 8th grade test takers.

Note: Student growth percentiles describes how a student has grown relative to peers who performed similarly on previous MCAS exams. For ex. If Michael has an SGP of 67 that means he has grown as much or more than 67% of academic peers from the previous year to the current year.

District-Wide Growth in ELA

Average Student Growth Percentiles in ELA
2019 vs. 2022

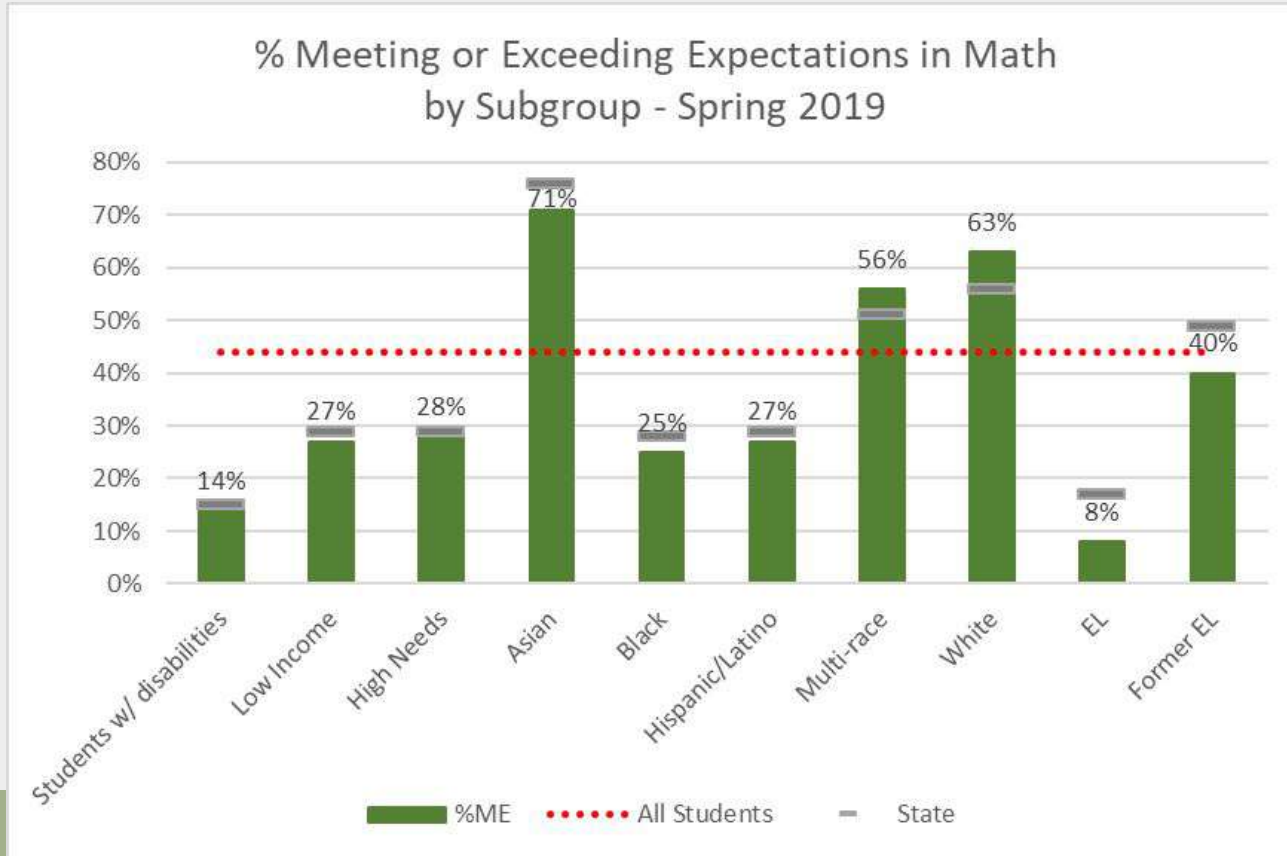


There hasn't been as large of a variance in the average ELA SGPs between 2019 and 2022.

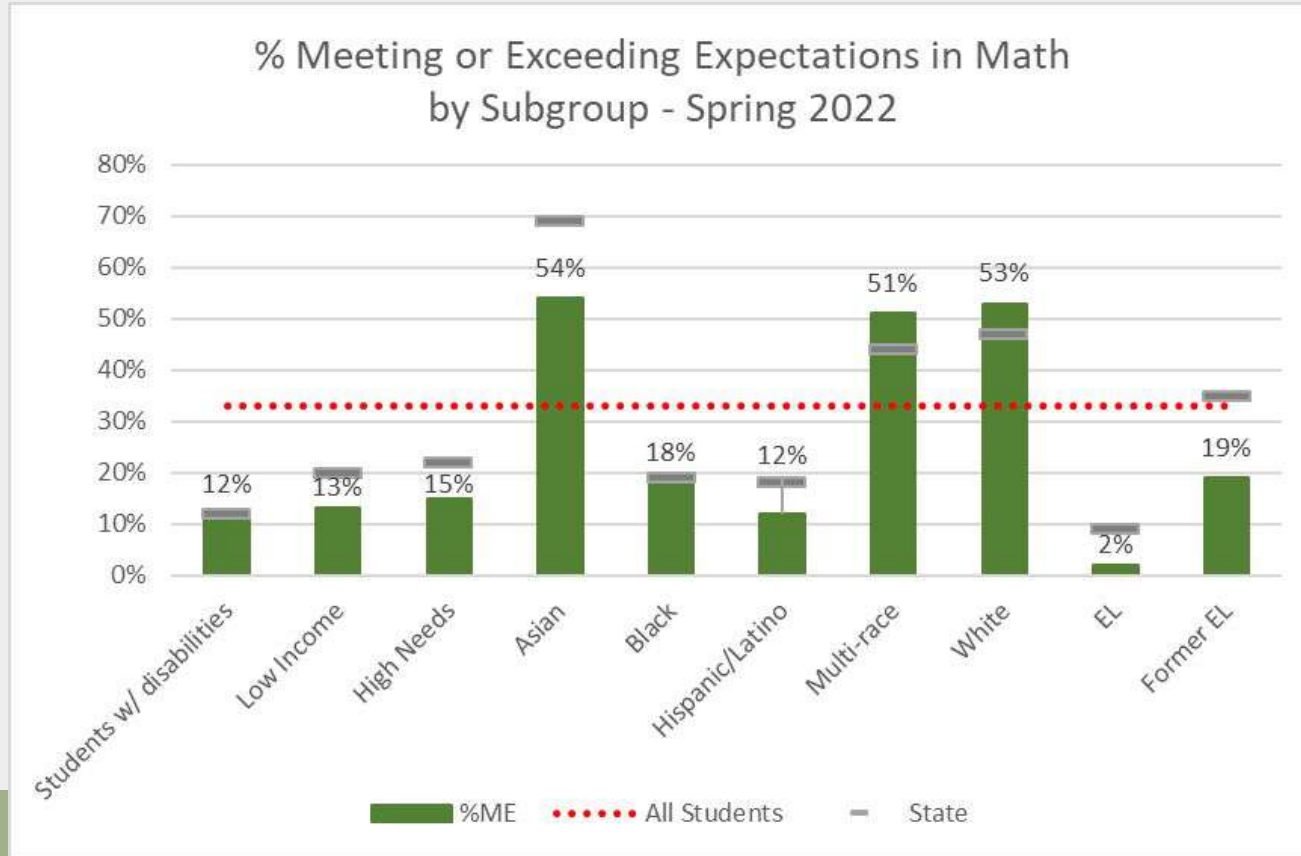
Note: Student growth percentiles describes how a student has grown relative to peers who performed similarly on previous MCAS exams. For ex. If Michael has an SGP of 67 that means he has grown as much or more than 67% of academic peers from the previous year to the current year.

Key Highlights in Math and ELA Grades 3–8

Math Achievement by Subgroup Grades 3–8 (Spring 2019)



Math Achievement by Subgroup Grades 3–8 (Spring 2022)



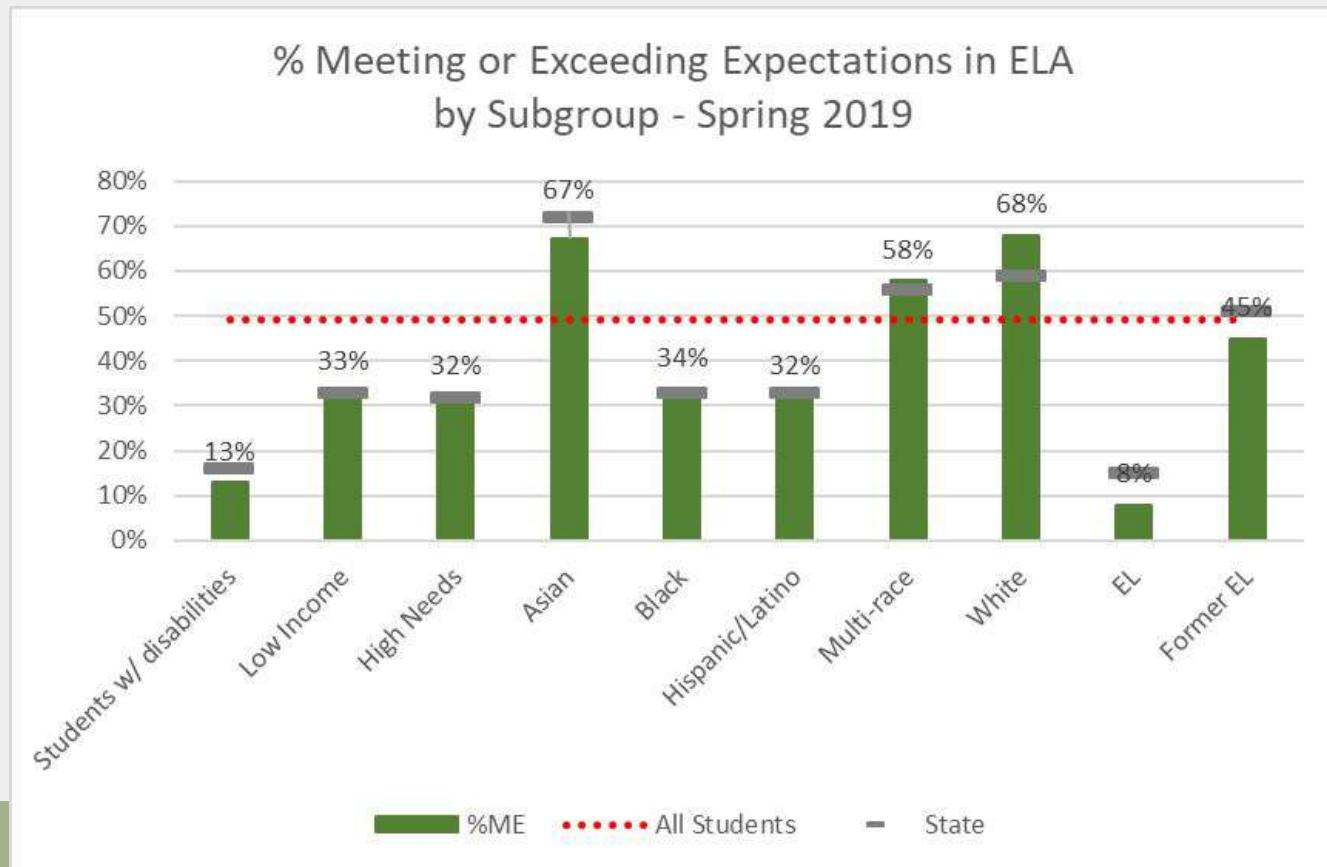
Math Achievement by Subgroup Grades 3–8

Comparing Spring 2019 vs. Spring 2022

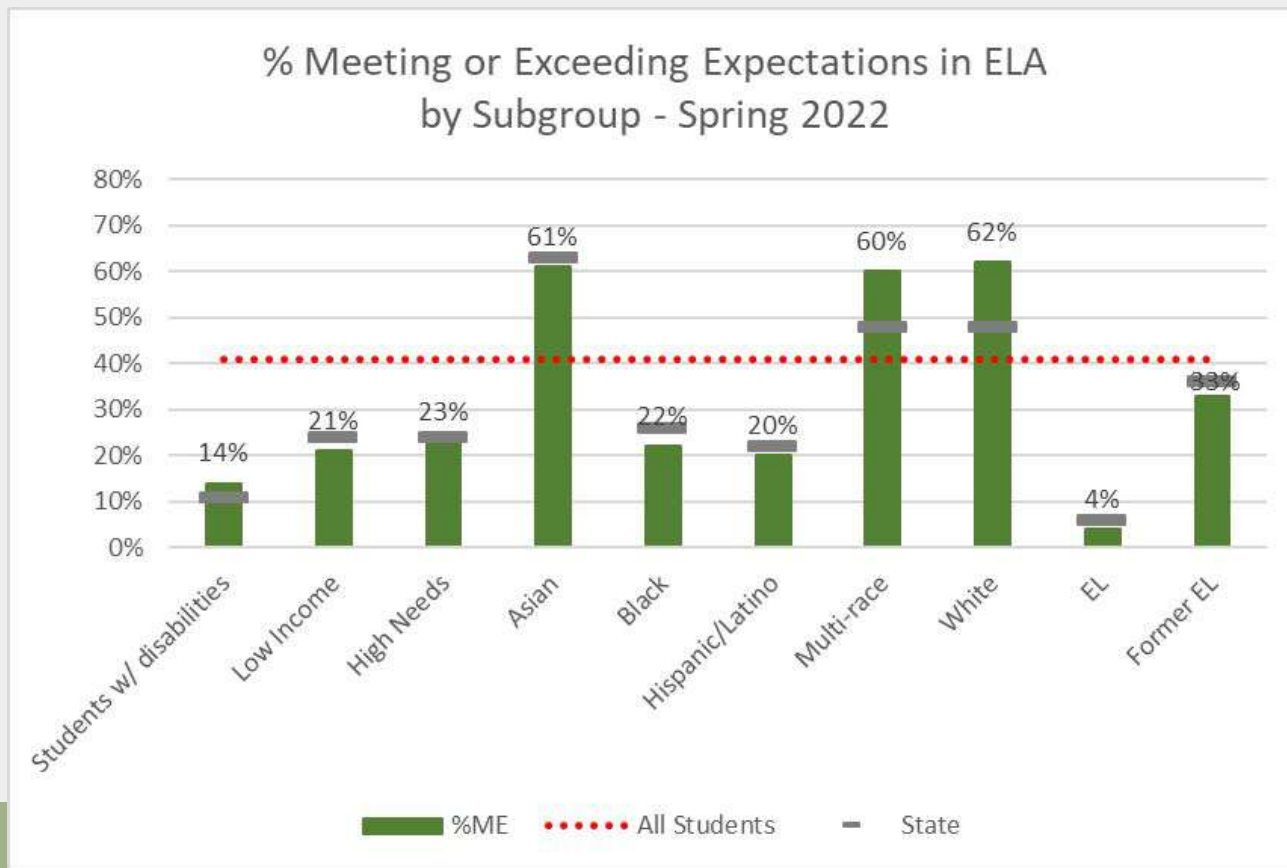
Key highlights when comparing the 2019 and 2022 achievement levels by subgroup:

- **A lower proportion of all student groups are meeting or exceeding expectations this in 2022 compared to 2019.**
- Some of the populations that experienced the most drastic decrease in %ME from 2019 to 2022 include our:
 - Former EL students (21 percentage point decrease)
 - Asian students (17 percentage point decrease)
 - Hispanic or Latino students (15 percentage point decrease)

ELA Achievement by Subgroup Grades 3–8 (Spring 2019)



ELA Achievement by Subgroup Grades 3-8 (Spring 2022)



ELA Achievement by Subgroup Grades 3–8

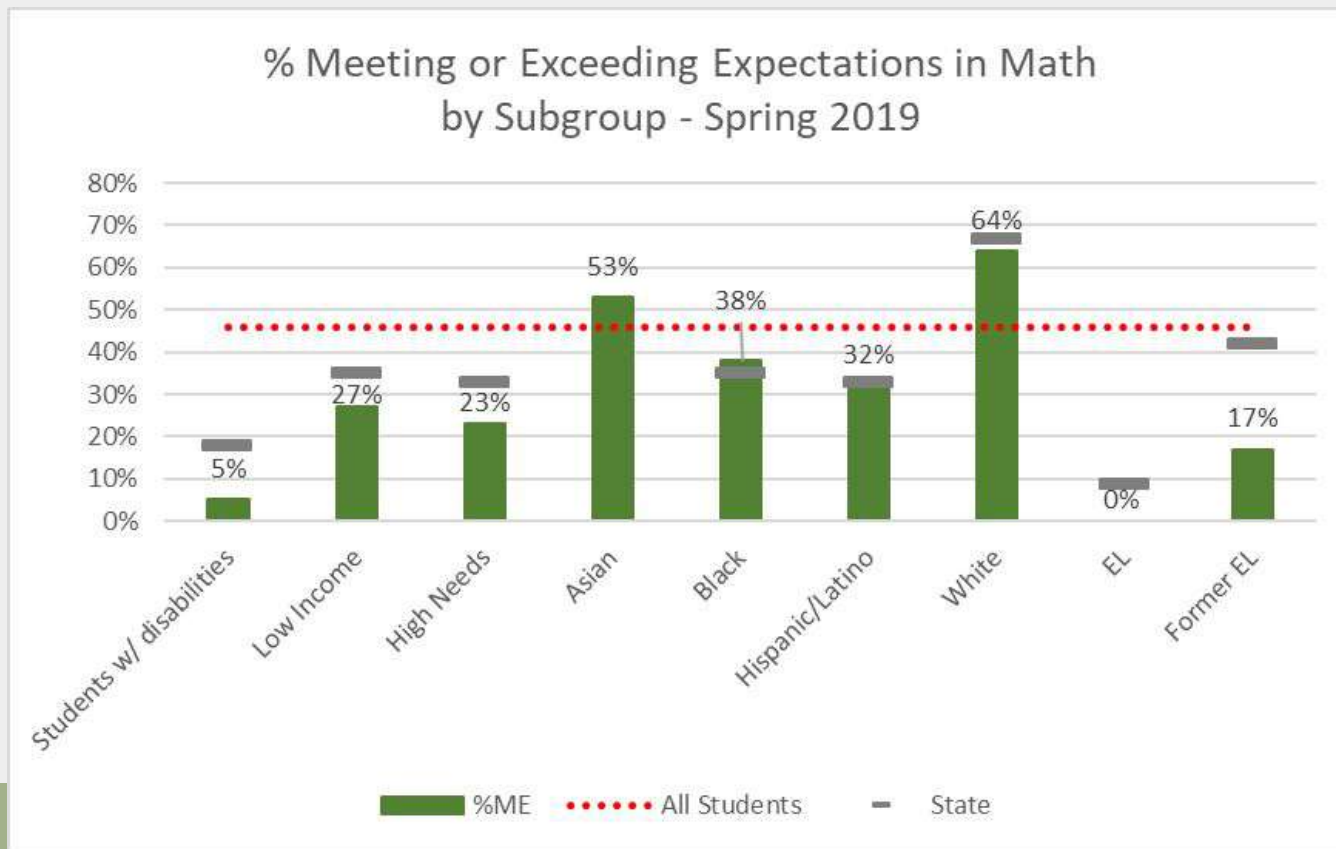
Comparing Spring 2019 vs. Spring 2022

Key highlights when comparing the 2019 and 2022 achievement levels by subgroup:

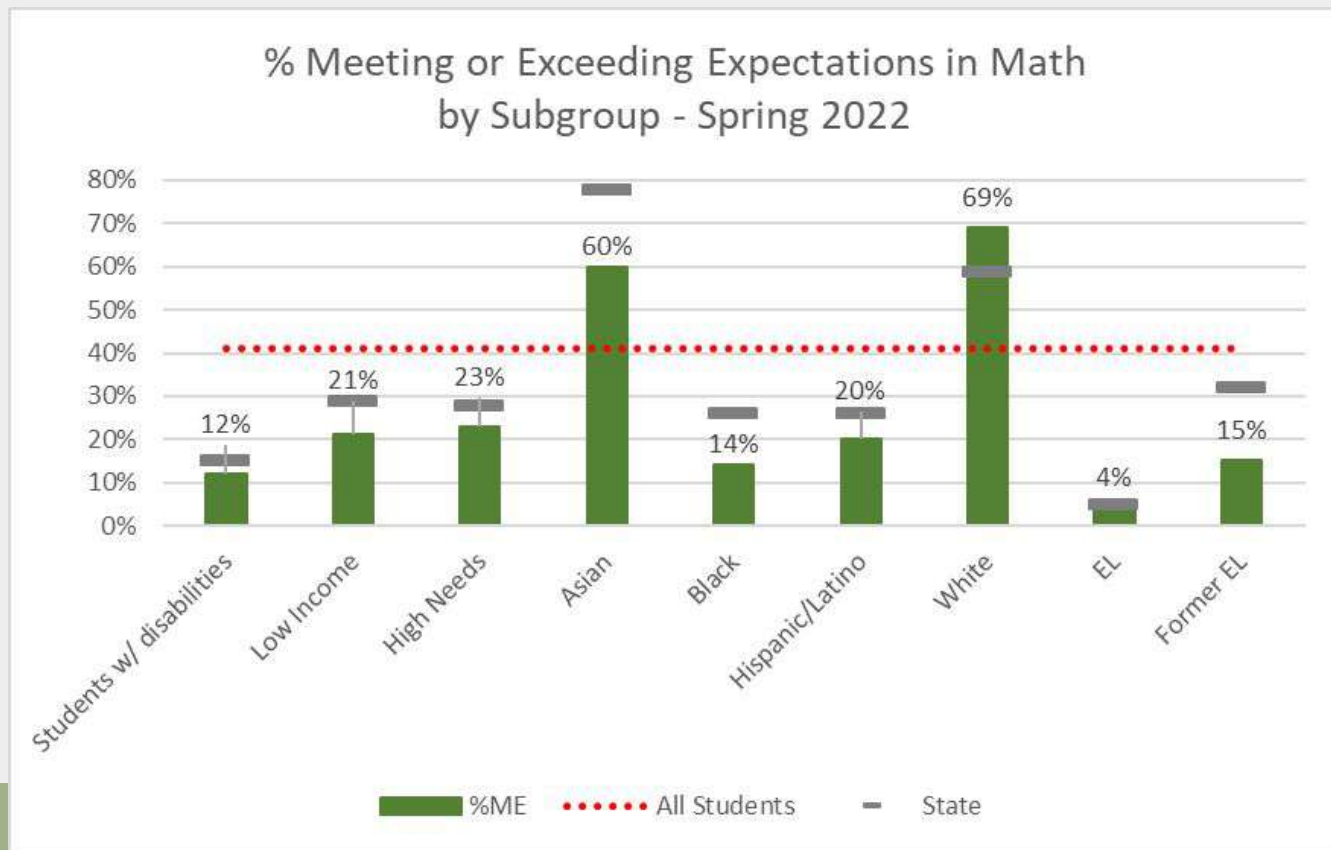
- **A lower proportion of students with disabilities, students from low income backgrounds, EL students, and Black and Hispanic/Latino students are meeting or exceeding expectations on the MCAS.** This holds true for both the 2019 results and the 2022 results.
- The only populations that experienced an increase in %ME from 2019 to 2022 were our **students with disabilities (1 percentage point increase)** and our **Multi-race students (2 percentage point increase)**
- The populations that experienced the most drastic decreases in %ME from 2019 to 2022 were our **Low income, Black, Hispanic/Latino, and Former EL students whose %ME all dropped by 12 percentage points.**

Key Highlights in Math and ELA Grade 10

Math Achievement by Subgroup Grade 10 (Spring 2019)



Math Achievement by Subgroup Grade 10 (Spring 2022)



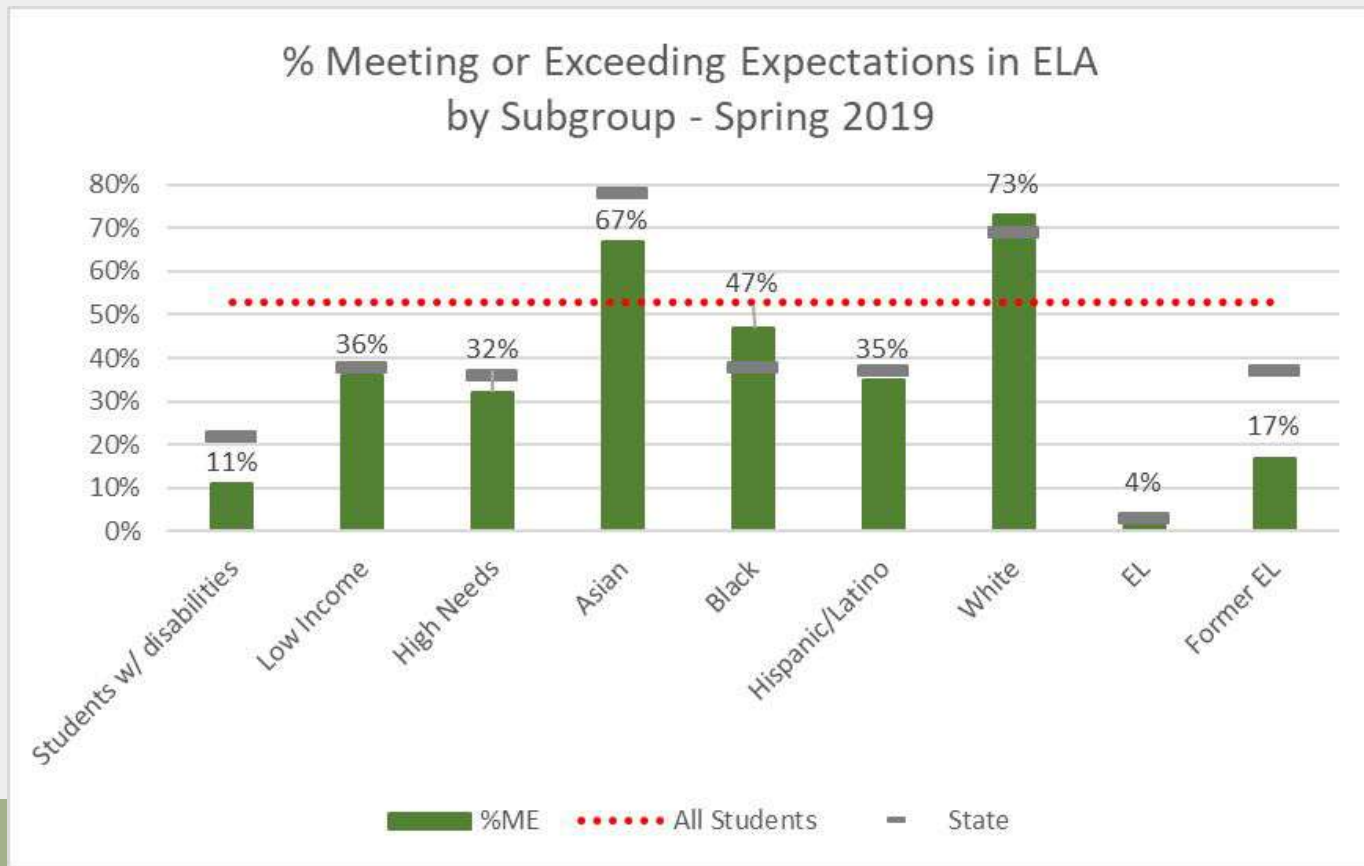
Math Achievement by Subgroup Grade 10

Comparing Spring 2019 vs. Spring 2022

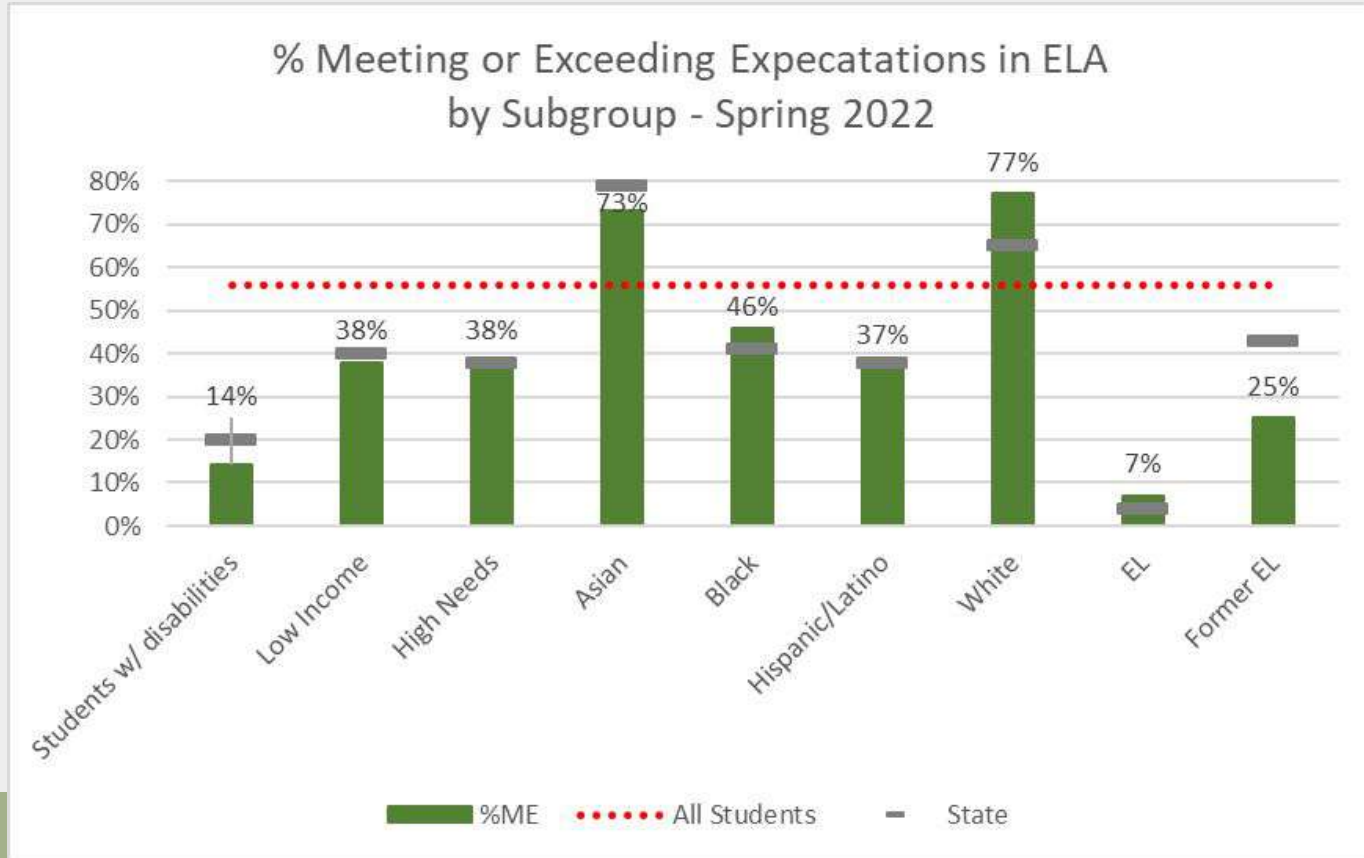
Key highlights when comparing the 2019 and 2022 achievement levels by subgroup:

- **Our Asian and White student populations had higher proportions of students meeting or exceeding on the Math MCAS compared to “All Students.”**
- The populations that experienced an increase in %ME from 2019 to 2022 were our **students with disabilities (7 percentage point increase), Asian students (7 percentage point increase), White students (5 percentage point increase), and EL students (4 percentage point increase).**
- An area for concern is the **sudden drop in %ME for our Black students (24 percentage point decrease) and our Hispanic/Latino students (12 percentage point decrease).**

ELA Achievement by Subgroup Grade 10 (Spring 2019)



ELA Achievement by Subgroup Grade 10 (Spring 2022)



ELA Achievement by Subgroup Grade 10

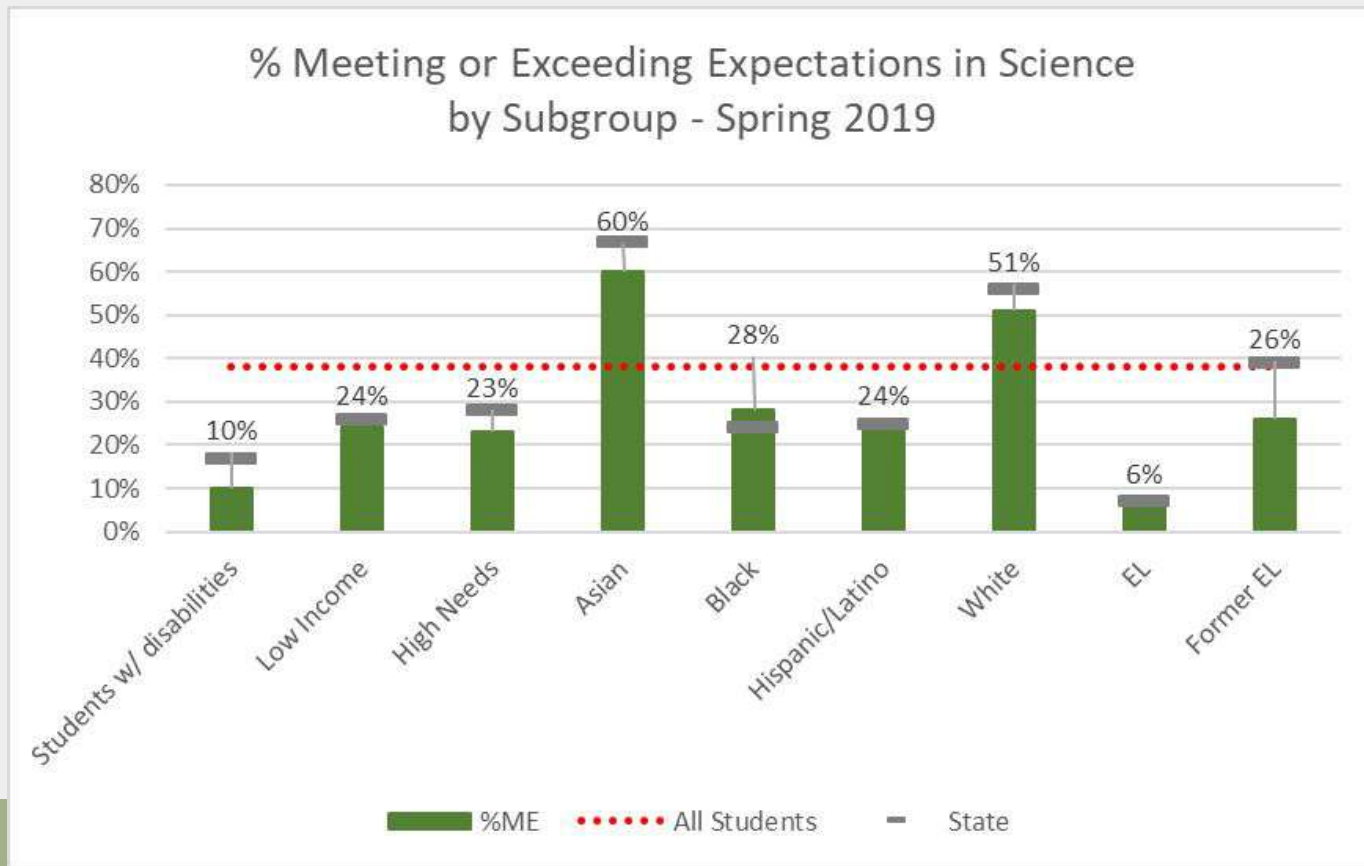
Comparing Spring 2019 vs. Spring 2022

Key highlights when comparing the 2019 and 2022 achievement levels by subgroup:

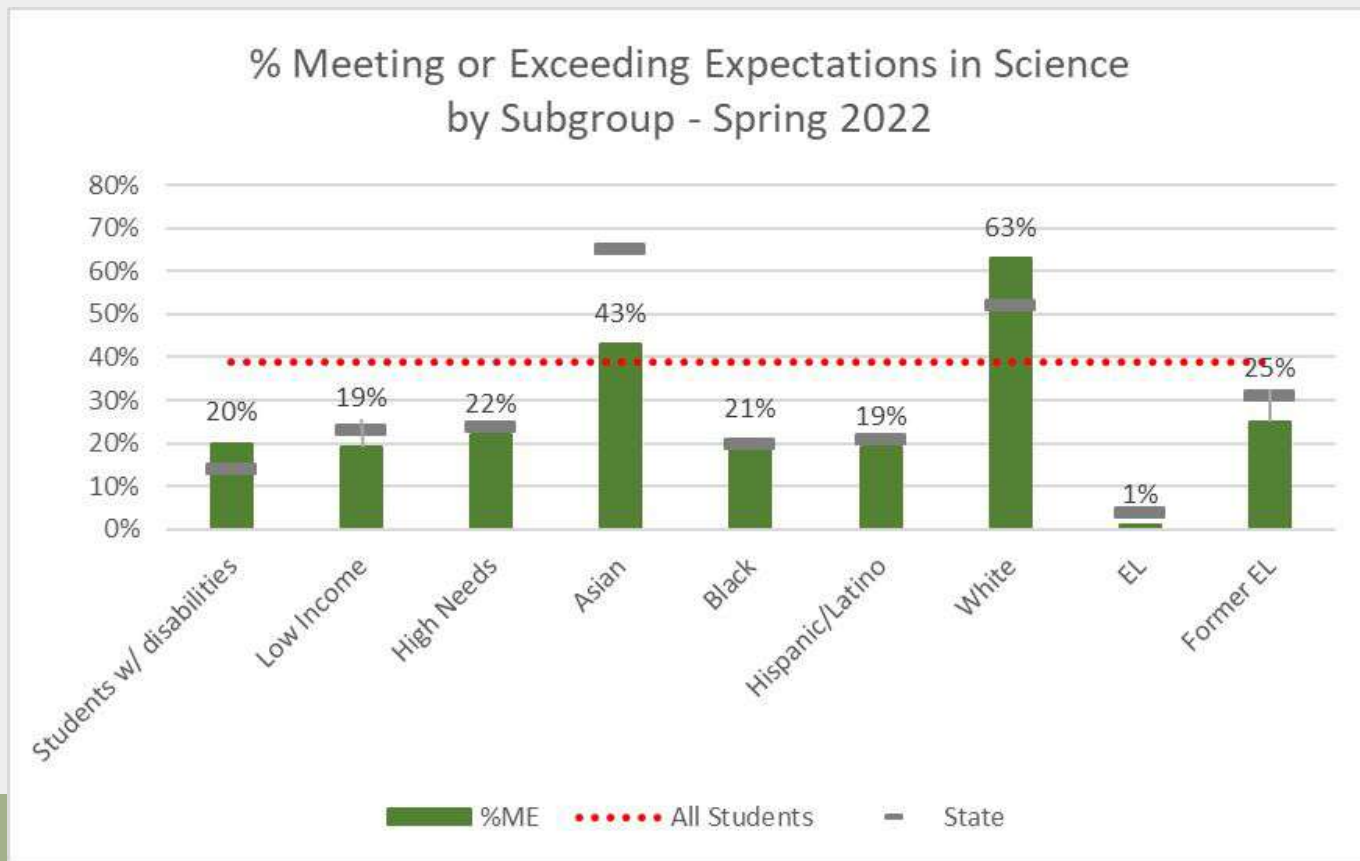
- Interestingly enough, most student subgroups experienced an increased %ME between the 2019 administration of the ELA MCAS to now.
- The only populations that experience a slight decrease in %ME were our Black students (1 percentage point decrease).

Key Highlights in Science Grades 5, 8, and 10

Science Achievement by Subgroup Grades 5 & 8 (Spring 2019)



Science Achievement by Subgroup Grades 5 & 8 (Spring 2022)



Science Achievement by Subgroup Grades 5 & 8

Comparing Spring 2019 vs. Spring 2022

Key highlights when comparing the 2019 and 2022 achievement levels by subgroup:

- There was a decrease in the %ME among almost all subgroups excluding our White students and students with disabilities
- The %ME for White students increased by 12 percentage points
- The %ME for students with disabilities increased 10 percentage points

Science Achievement by Subgroup Grade 10 (Spring 2022)

