

FY21 Outcomes Report

School Committee Presentation: Thursday October 14, 2021

Prepared by Roderick MacNeal, Jr., Ed.D.

Assistant Superintendent for Curriculum and Instruction



Objectives

- Review changes to the 2021 Spring MCAS
- Share statewide trends in math and ELA
- Share district trends
- Give observations
- Review next steps to respond to the data
- Comments/Questions

What's New...



- Extended administration timeline
- Students in grades 3–8 were randomly assigned one session of a regular two-session test in ELA, Math, and STE
- Students in grades 3–8 learning remotely could take computer-based tests at home (one of six states)
 - Approximately 20% of students took the test remotely
 - Test administrators monitored administration using an audio/video-based platform (Zoom, etc.)
 - Grade 10 remained a two-session, in-school test
- SGP calculated using a 2-3 prior-year baseline (gr. 5–8 and 10)
- Redesigned parent/guardian report for grades 3–8
- Grade 11 students took next generation or legacy tests for scholarship purposes.
 - Depending on subject, approximately 6,900–7,500 participated

ELA Change in Achievement Levels 2019 to 2021



Grade	Not Meeting	Partially Meeting	M&E Trend	Meeting	Exceeding
3	+2%	+3%	-6%	-5%	-1%
4	+4%	-1%	-3%	0%	-3%
5	+4%	+2%	-5%	-6%	+1%
6	+9%	-2%	-7%	-6%	-1%
7	+7%	-1%	-5%	-3%	-2%
8	+4%	+6%	-11%	-7%	-4%
3-8 Total	+5%	+1%	-6%	-4%	-2%
10	+1%	-4%	+3%	-3%	+6%

Mathematics Change in Achievement Levels 2019 to 2021



Grade	Not Meeting	Partially Meeting	M&E Trend	Meeting	Exceeding
3	+13%	+3%	-16%	-12%	-4%
4	+12%	+4%	-16%	-12%	-4%
5	+10%	+5%	-16%	-14%	-2%
6	+13%	+5%	-17%	-12%	-5%
7	+5%	+8%	-13%	-8%	-5%
8	+10%	+5%	-15%	-9%	-6%
3-8 Total	+10%	+6%	-15%	-11%	-4%
10	+3%	+3%	-7%	-5%	-2%

District ELA Results and Observations

Grades 3-8 ELA Change in Achievement Levels for Race/Ethnicity/Gender 2019 to 2021						Average Scaled Score		
	NM	PM	M/E Trends	Meeting	Exceeding	2019	2021	Diff
All	+1%	-1%	0	0	+1%	511.6	510.9	-.7
Af Am/Black	-2%	+6%	-4%	-11%	+7%	492.1	492.7	+.6
Asian	+1%	0%	-2%	-6%	+5%	514.2	514.9	+.7
Hisp/Latino	+4%	-8%	+4%	+2%	+2%	504.2	504.3	+.1
Multi Race	+4%	-2%	-2%	+9%	-11%	515	509.2	-5.8
White	0	0	+1%	+1%	-1%	512.5	511.8	-.7
Male	0	-2%	+2%	-1%	+3%	507	507.2	+.2
Female	0	0	-1%	0	-1%	516.1	514.9	-1.2

Grades 3-8 ELA Change in Achievement Levels for Econ Dis, SWD, EL, High Needs and Former EL 2019 to 2021						Average Scaled Score		
	NM	PM	M&E Trends	Meeting	Exceeding	2019	2021	Diff
Econ Dis	+5%	0%	-5%	-5%	0%	495.2	491	-4.2
SWD	+1%	-6%	+5%	+4%	+2%	491.6	491.9	+3
EL	+4%	-9%	+5%	+4%	+1%	486.1	486.2	+1
High Needs	+2%	-4%	+2%	+1%	+1%	496	495	-1
Former EL	+2%	+2%	-3%	-7%	+3%	504.8	502.2	-2.6

10th Grade ELA Change in Achievement Levels for Race/Ethnicity/Gender 2019 to 2021						Average Scaled Score		
	NM	PM	M/E Trends	Meeting	Exceeding	2019	2021	Diff
All	+2%	-2%	+1%	-10%	+12%	516.6	519.2	+2.6
Af Am/Black	+18	+30	-48%	-45%	-2%	509.1	490	-19.1
Asian	-3%	+7%	-4%	+3%	-7%	519.6	518.2	-1.4
Hisp/Latino	+1%	-16%	+15%	-10%	+25%	500.9	518.9	+18
Multi Race	0%	-16%	+16%	0%	+16%	514.2	526.1	+11.9
White	+1%	-3%	+2%	-11%	+13%	518.2	520.7	+2.5
Male	+3%	-3%	0%	-7%	+7%	513.8	514.9	+1.1
Female	+0%	-1%	0%	-13%	+14%	519.4	522.5	+3.1

10th Grade ELA Change in Achievement Levels for Econ Dis, SWD, EL, High Needs, and Former EL 2019 to 2021						Average Scaled Score		
	NM	PM	M&E Trends	Meeting	Exceeding	2019	2021	Diff
Econ Dis	+11%	+1%	-11%	-15%	+4%	506.8	504.2	-2.6
SWD	+13%	-6%	-8%	-3%	-3%	498.9	493	-5.9
EL	ND	ND	ND	ND	ND	ND	ND	ND
High Needs	+7%	-1%	-8%	-9%	+2%	503.2	500.5	-2.7
Former EL	ND	ND	ND	ND	ND	ND	498	ND



District ELA Achievement and SGP Observations

Grades 3-8

- A higher percentage of students who took the assessment remotely achieved meeting/exceeding when compared to students who took the assessment in person.
- All groups performed higher than the state.
- Students in the following groups; African American/Black, economically disadvantaged, students with disabilities, English Learners, and high needs performed significantly lower than all other groups.
- All groups exhibited moderate to high growth.

10th Grade

- Many groups exhibited an increase in the percentage of students who achieved meeting/exceeding when compared to 2019
- There was a significant decrease in the percentage of African American students who achieved meeting/exceeding when compared to 2019 results.
- Students in the following groups; African American/Black, economically disadvantaged, students with disabilities, high needs and former EL performed significantly lower than their peers.
- African American/Black group had a lower percentage of students who achieved meeting/exceeding when compared to the state
- SGP for all groups exhibited moderate to high growth.

District Math Results and Observations

Grades 3-8 Math Change in Achievement Levels for Race/Ethnicity/Gender 2019 to 2021						Average Scaled Score		
	NM	PM	M/E Trends	Meeting	Exceeding	2019	2021	Diff
All	+2%	+7%	-10%	-3%	-5%	509.9	504.3	-5.6
Af Am/Black	+12%	-3%	-9%	-8%	-1%	487.6	480.5	-7.1
Asian	+2%	0%	-2%	0%	-2%	516.5	514.9	-1.6
Hisp/Latino	+9%	-4%	-6%	-3%	-2%	501.8	495.4	-6.4
Multi Race	+3%	+10%	-13%	-7%	-6%	512.7	506.9	-5.8
White	+2%	+9%	-11%	-4%	-7%	510.5	504.1	-6.4
Male	+2%	+7%	-9%	-3%	-6%	509.9	504.7	-5.2
Female	+3%	+7%	-10%	-5%	-5%	509.9	503.8	-6.1

Grades 3-8 Math Change in Achievement Levels for Econ Dis, SWD, EL, High Needs and Former EL 2019 to 2021						Average Scaled Score		
	NM	PM	M&E Trends	Meeting	Exceeding	2019	2021	Diff
Econ Dis	+11%	+4%	-16%	-14%	-1%	492.4	484.5	-7.9
SWD	+6%	-2%	-5%	-5%	0%	490.8	486.4	-4.4
EL	+7%	+2%	-9%	-6%	-3%	492.5	486.2	-6.3
High Needs	+6%	+4%	-11%	-8%	-2%	495.9	490	-5.9
Former EL	0%	+8%	-8%	-4%	-5%	506.4	502.8	-3.6

10th Grade Math Change in Achievement Levels for Race/Ethnicity/Gender 2019 to 2021						Average Scaled Score		
	NM	PM	M/E Trends	Meeting	Exceeding	2019	2021	Diff
All	-1%	+1%	-1%	-1%	0%	516.9	516.8	-.1
Af Am/Black	+24%	+1%	-25%	-22%	-2%	505.2	489.9	-15.3
Asian	-3%	-8%	+10%	+20%	-9%	522	523.8	+1.8
Hisp/Latino	-12%	+4%	+9%	-2%	+10%	499.4	510.3	+10.9
Multi Race	-7%	-4%	+11%	+3%	+9%	515.7	523.9	+8.2
White	0%	+3%	-3%	-3%	0%	518.4	517.6	-.8
Male	-1%	+6%	-5%	-7%	+2%	515.6	515.4	-.2
Female	+1%	-3%	+2%	+4%	-2%	517.8	517.8	0

10th Grade Math Change in Achievement Levels for Econ Dis, SWD, EL, High Needs, and Former EL 2019 to 2021						Average Scaled Score		
	NM	PM	M&E Trends	Meeting	Exceeding	2019	2021	Diff
Econ Dis	-10%	+8%	+2%	-8%	+10%	499.2	506.5	+7.3
SWD	-1%	+6%	-5%	-3%	-1%	492.6	491.3	-1.3
EL	ND	ND	ND	ND	ND	ND	ND	ND
High Needs	-3%	0%	+2%	-1%	+4%	498.9	501.6	+2.7
Former EL	ND	ND	ND	ND	ND	ND	502	ND

District Math Achievement and SGP Observations

- **Grades 3-8**

- A higher percentage of students who took the assessment remotely achieved meeting/exceeding when compared to students who took the assessment in person
- All groups had a higher percentage of students who achieved meeting/exceeding when compared to the state
- All groups exhibited a consistent decrease in the percentage of students who achieved meeting/exceeding when compared to 2019
- Students in the following groups; African American/Black, Hispanic/Latino, economically disadvantaged, students with disabilities, English Learners, and high needs performed significantly lower than all other groups
- African American/Black students performed lower than all of their peers
- Each group exhibited a higher SGP when compared to the state
- The majority of the groups exhibited low to moderate SGP

- **10th Grade**

- All groups scored higher than the state
- Students in the following groups; African American/Black, economically disadvantaged, students with disabilities, English Learners, and high needs performed significantly lower than all other groups
- African American/Black group of students exhibited a significant decrease in the percentage of students who achieved meeting/exceeding when compared to 2019
- African American/Black students performed lower than all of their peers
- All groups achieved a higher SGP than the state
- All groups exhibited moderate to high growth

District Science, Technology/Engineering Results and Observations

Grades 5 and 8 STE Change in Achievement Levels for Race/Ethnicity/Gender 2019 to 2021						Average Scaled Score		
	NM	PM	M/E Trends	Meeting	Exceeding	2019	2021	Diff
All	+1%	-1%	0%	+6%	-6%	512.7	510.1	-2.6
Af Am/Black	+18%	-17%	-1%	+1%	-2%	486.3	478.2	-8.1
Asian	+3%	-5%	+1%	+1%	0%	513.7	514.6	+.9
Hisp/Latino	+11%	-8%	-4%	0%	-3%	503.7	495.3	-8.4
Multi Race	+2%	-12%	+9%	+14%	-4%	514.9	514.9	0
White	0%	+2%	-2%	+7%	-9%	514.9	511.9	-3
Male	-1%	+1%	0%	+10%	-10%	512.5	509.8	-2.7
Female	+4%	-3%	-1%	+3%	-3%	512.9	510.5	-2.4

Grades 5 and 8 STE Change in Achievement Levels for Econ Dis, SWD, EL, High Needs, and Former EL 2019 to 2021						Average Scaled Score		
	NM	PM	M&E Trends	Meeting	Exceeding	2019	2021	Diff
Econ Dis	+10%	-1%	-9%	-9%	0%	493.4	486.5	-6.9
SWD	+4%	-5%	+1%	+2%	-1%	493.9	490.9	-3
EL	+23%	-28%	+5%	+5%	0%	485.4	480	-5.4
High Needs	+5%	-7%	+1%	+2%	-1%	496.6	493.5	-3.1
Former EL	+2%	-10%	+7%	+18%	-10%	502.1	501.2	-.9

9th,10th Grade STE Change in Achievement Levels for Race/Ethnicity/Gender 2019 to 2021					
	Warning/ Failing	NI	Prof or Higher Trends	Prof	Advanced
All	+1%	+10%	-11%	+13%	-24%
Af Am/Black	ND	ND	ND	ND	ND
Asian	+5%	+15%	-19%	+23%	-42%
Hisp/Latino	-12%	+19%	-7%	-8%	+1%
Multi Race	-14%	+20%	-6%	+37%	-43%
White	+2%	+9%	-10%	+12%	-22%
Male	+1%	+11%	-11%	+9%	-21%
Female	+1%	+10%	-12%	+15%	-27%

9th,10th Grade STE Change in Achievement Levels for Econ Dis, SWD, EL, High Needs, and Former EL 2019 to 2021

	Warning/ Failure	NI	Prof or Higher Trends	Prof	Advanced
Econ Dis	0%	+31%	-32%	-11%	-21%
SWD	+4%	+22%	-26%	-14%	-11%
EL	ND	ND	ND	ND	ND
High Needs	+2%	+17%	-19%	-3%	-16%
Former EL	-2%	+14%	-12%	+17%	-29%

District STE Achievement and SGP Observations

- **Grades 5 and 8**

- A higher percentage of students who took the assessment remotely achieved meeting/exceeding when compared to students who took the assessment in person
- Students in the following groups; African American/Black, Hispanic/Latino, economically disadvantaged, students with disabilities, English Learners, and high needs performed significantly lower than all other groups
- African American/Black students performed lower than all of their peers

- **9th and 10th Grade**

- The results listed are for the Introductory Physics MCAS Legacy assessment
- State averages for achievement levels are not listed
- A significant decrease in the percentage of students achieving proficient or higher for all groups when compared to 2019
- Students in the following groups; economically disadvantaged, students with disabilities, English Learners, high needs and former EL performed significantly lower than all other subgroups

Next Steps...

- Triangulate MCAS results with other data sources (student work, local assessments, instructional rounds, etc...)
- Disaggregate data during ACE block meetings, dept meetings, common planning time
- Conduct an item analysis
- Use data to assist with creating goals for school improvement plans, individual teacher student learning and professional practice goals
- Use data to inform instruction and identify topics for professional development
- Provide professional development that focuses on anti-bias and anti-racist teaching practices
- Adopt Multi-Tiered Systems of Support as a framework to address the individual needs of students

Comments/Questions

