

# PUBLIC SCHOOLS of **BROOKLINE** Curriculum Subcommittee - October 18, 2022



# Agenda



- Review 2021-2022 MCAS results
- Highlight areas of celebration and areas of challenge
- Outline next steps
- Questions

# MCAS Test Administration 2019-2022

2022 school year was the first full MCAS administration for grades 3-8 since 2019. Grade 10 students in 2022 had not taken an MCAS test since 2019 (grade 7).

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

# **2022 MCAS Statewide Summary Notes**

#### The 2022 State MCAS showed <u>mixed results</u> compared with 2021 scores:

- Math scores increased
- English Language Arts (ELA) scores declined
- Science scores increased slightly

When we compare these results to pre-pandemic levels, the state has a ways to go across all subject areas to fully recover learning losses

- Brookline's performance was more variable

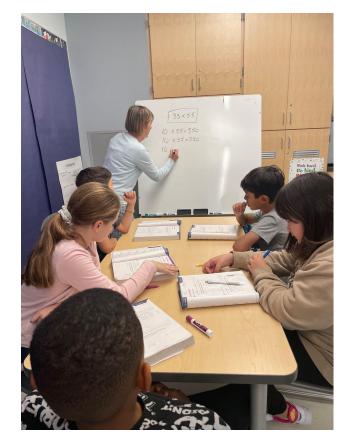
In ELA, two focus areas for improvement

- Impact of lower writing scores
- Early literacy challenges

Student absenteeism remains a challenge across the board for recovery efforts

# **Brookline Celebrations**

- Our students did not demonstrate the same level of "learning loss" as the state
- Brookline's overall performance in ELA, Math and Science remained similar to pre pandemic performance
- Brookline's aggregate group outperformed the State
- Grade 7 showed increases in performance in both math and ELA



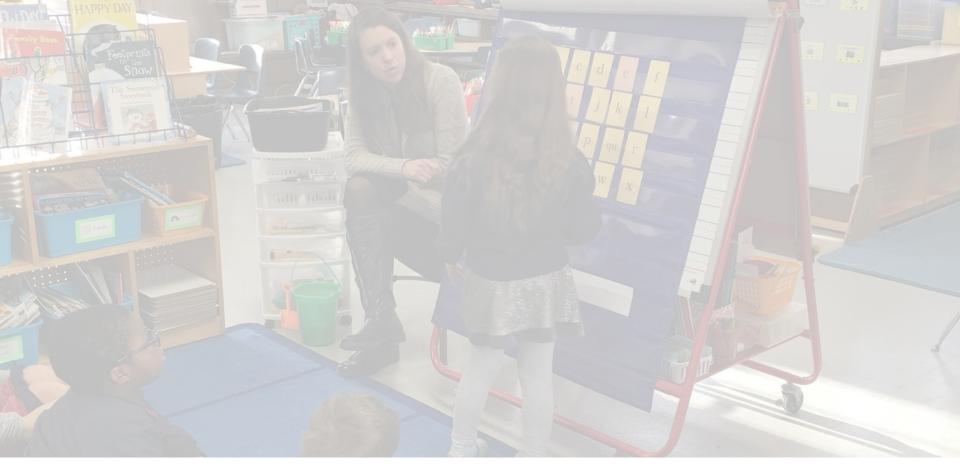
# Challenges

### The gaps within Brookline's subgroups remains high

- Black and African American students in Brookline demonstrate a lower performance than their peers in the state
- The gap for Students with Disabilities has widened slightly in ELA since 2019

### Attendance was a challenge for 2021-2022

- This did not impact our district determination this year, however if we do not improve this will become relevant for the state determination going forward this year



# **English Language Arts (ELA) Results**

### 2019-2022 Statewide ELA MCAS Results by Grade

Variable losses across grades 3-7 while grade 8 showed signs of recovery in 2022. Total impact of 20% loss in grades 3-8 students meeting expectations since 2019.

Grade	2019 M/E	2022 M/E	Change M/E 19-22
03	56	44	-12
04	52	38	-14
05	52	41	-11
06	53	41	-12
07	48	41	-7
08	52	42	-10
3-8	52	41	-11
10	61	58	-3

### 2019-2022 PSB ELA MCAS Results by Grade

Grade	2019 M/E	2022 M/E	Change M/E 19-22
03	75	69	-6
04	71	62	-9
05	71	67	-4
06	81	71	-10
07	74	77	4
08	82	72	-10
3-8	76	70	-6
10	83	81	-2

### 2022 ELA MCAS Results by Race/Ethnicity, Grades 3-8

#### Achievement gaps have remained similar or decreased

Race/Ethnicity	2019 M/E	2022 M/E	Gap vs. White 19	Gap vs. White 22
African-American	33	26	-26	-22
Asian	72	63	+13	+15
Hispanic	33	22	-26	-26
White	59	48		

African-American	37	38	-43	-38
Asian	82	73	+2	-3
Hispanic	61	51	-19	-25
White	80	76		

### 2022 ELA MCAS Results by Race/Ethnicity, Grade 10

#### Achievement gaps have remained similar or decreased

Race/Ethnicity	2019 M/E	2022 M/E	Gap vs. White 19	Gap vs. White 22
African-American	38	37	-32	-28
Asian	77	78	+7	+13
Hispanic	36	38	-34	-27
White	70	65		

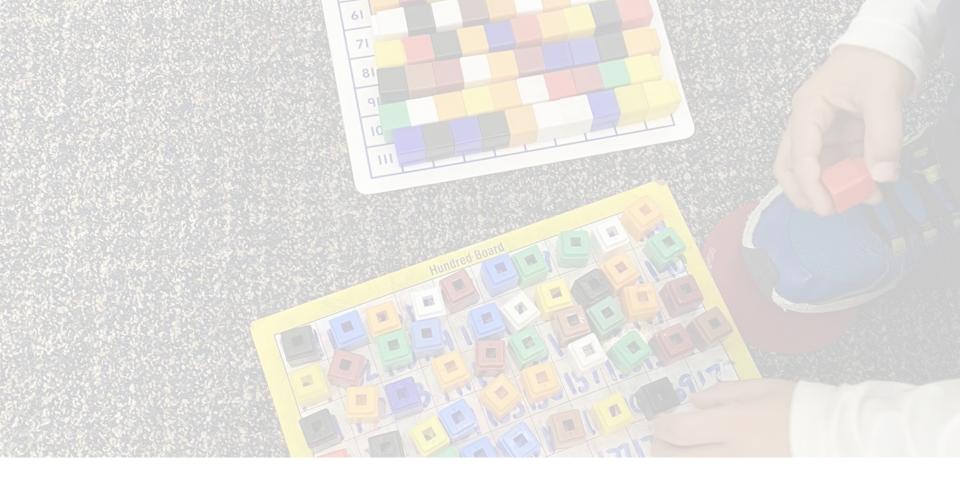
African-American	43	37	-48	-52
Asian	85	89	-6	0
Hispanic	69	68	-22	-21
White	91	89		

### Impact of lower writing scores on grades 3-8 ELA results

# Each ELA test contains a required essay and the 2022 writing results declined significantly

- The number of test takers receiving a score of 0 points increased from 19 in 2019 to 31 in 2022
- The average points scored per essay decreased in grades 3-8 with larger decreases in grades 3-5

Grade	2019 Average Points Earned	2022 Average Points Earned	Possible Points	Change 19-22
3-5	2.8	2.1	7	-25
6-8	3.8	3.3	8	-13



# **Math Results**

### 2019-2022 Statewide Math MCAS Results by Grade

Recovery across all grades 3-8 in 2022. About 50% of "loss" from 2021 recovered in grades 3 and 4. Additional loss in grade 10 but slowing as compared to 2021.

Grade	2019 M/E	2022 M/E	Change M/E 19-22
03	49	41	-8
04	50	42	-8
05	48	36	-12
06	52	42	-10
07	48	37	-11
08	46	36	-10
3-8	49	39	-10
10	59	50	-9

### 2019-2022 PSB Math MCAS Results by Grade

Grade	2019 M/E	2022 M/E	Change M/E 19-22
03	68	66	-2
04	68	65	-3
05	71	61	-10
06	79	71	-8
07	76	79	+3
08	80	72	-8
3-8	73	69	-4
10	88	81	-8

### 2022 Math MCAS Results by Race/Ethnicity, Grades 3-8

Math achievement for African-American and Hispanic students remains low but achievement gaps held steady or improved due to declining achievement of White students.

Race/Ethnicity	2019 M/E	2022 M/E	Gap vs. White 19	Gap vs. White 22
African-American	28	19	-28	-28
Asian	76	69	+20	+22
Hispanic	29	38	-27	-22
White	56	47		

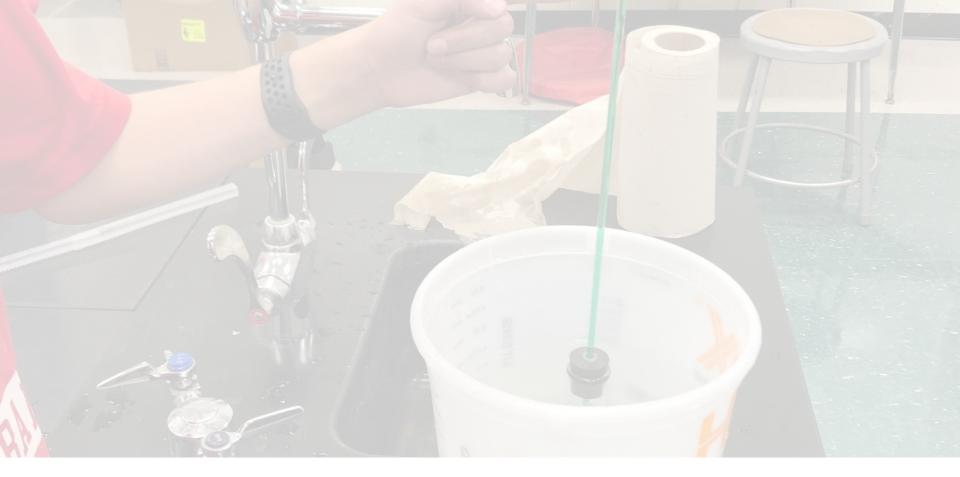
African-American	29	37	-48	-44
Asian	88	83	+11	+10
Hispanic	51	41	-26	-32
White	77	73		

### 2022 Math MCAS Results by Race/Ethnicity, Grade 10

#### Achievement gaps have remained similar or decreased

Race/Ethnicity	2019 M/E	2022 M/E	Gap vs. White 19	Gap vs. White 22	
African-American	35	26	-31	-33	
Asian	83	78	+17	+19	
Hispanic	34	26	-32	-33	
White	66	59			

African-American	28	50	-62	-36
Asian	93	94	+3	+8
Hispanic	66	67	-23	-19
White	90	86		



# **Science Results**

### 2019-2022 Science MCAS Results by Grade

#### Small recovery in grades 5 and 8 in 2022.

Grade	2019 M/E	2022 M/E	Change M/E 19-21	Change M/E 19-22	
05	49	43	-7	-6	
08	46	42	-5	-4	
10*		47			

#### **Brookline**

05	66	67	+2	+1
08	72	70	-4	-2
10*		63		

\*First administration of the Next-Generation Science MCAS in grade 10 Physics and Biology and not comparable to prior years.

### 2022 Science MCAS Results by Race/Ethnicity

#### Achievement gaps have remained similar or decreased

Race/Ethnicity	2019 M/E	2022 M/E	Gap vs. White 19	Gap vs. White 22
African-American				
Asian				
Hispanic				
White				

African-American		
Asian		
Hispanic		
White		

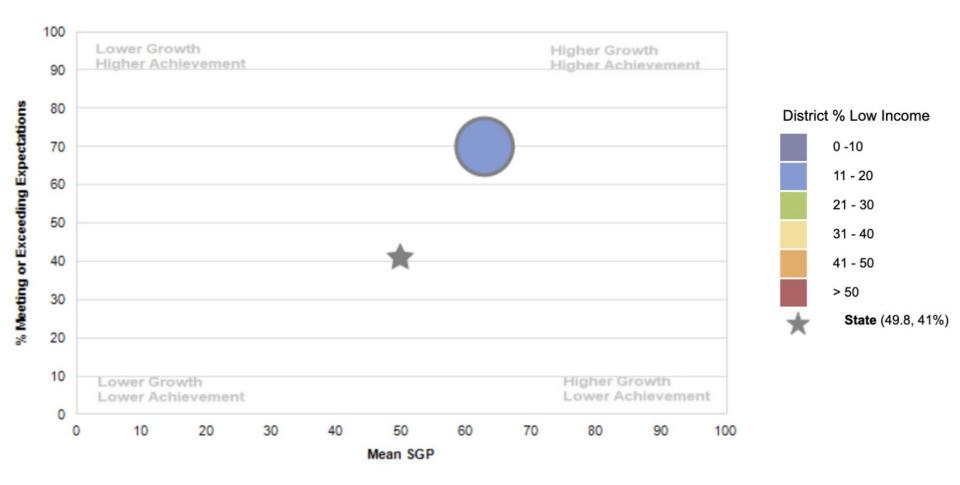


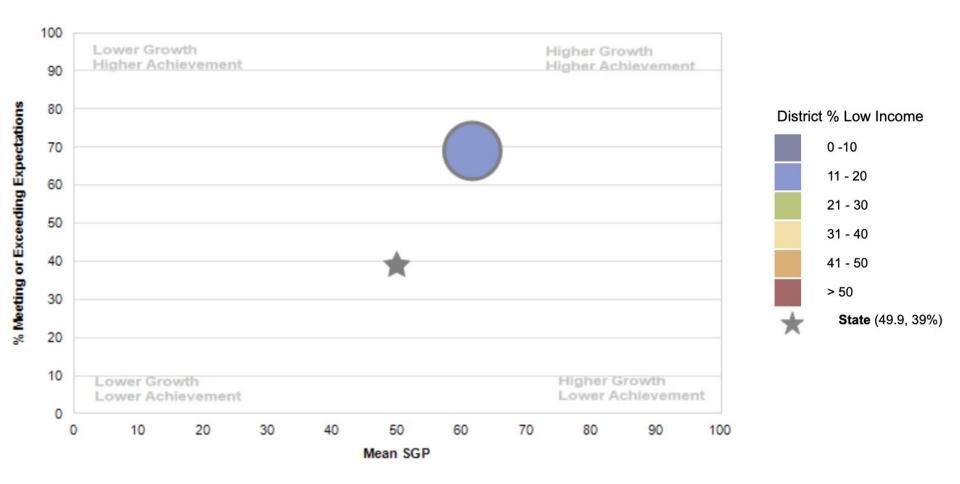
# **Growth Results**

# **Student Growth**



- Availability of data allows for return to cohort model for student growth percentile calculations
- Should not be compared to 2021
- Old standards for understanding the means are applicable
  - Mean SGP of 1-19 = Very low growth
  - Mean SGP of 20-39 = Low growth
  - Mean SGP of 40-59 = Typical growth
  - Mean SGP of 60-79 = High growth
  - Mean SGP of 80-99 = Very high growth







## **Attendance**

## **Student Absenteeism**

#### Student absenteeism across the state remains a challenge for recovery <u>efforts.</u>

#### Students have attended less school over past several years

- Average student missed 11 days in 2021 and 15 days in 2022
- 18% of all students missed 18+ days in 2021 and 28 missed 18+ days in 2022

# Chronic absenteeism for students in grades 3-8 increased in 2022 by 138 (41K vs 98K students) as compared to 2019

**1.7 million days of missed school because of positive COVID-19 cases in 2022** 

- Does not include staff absences or days missed as close contacts
- Note: 1 million+ other school days were saved as a result of the state testing program

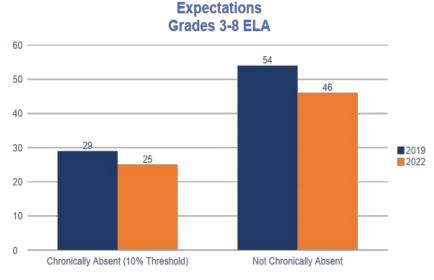
## **Brookline Attendance**

	2020-2021 School Year			2021-2022 School Year			
Group	Attendance Rate	Avg # Absences	Absent ≥10 Days	Attendance Rate	Avg # Absences	Absent ≥10 Days	Net Change
All Students	97.3%	4.4	11.1%	94%	10.5	40.3%	+29.2%
Students w/ Disabilities	95.8%	6.8	20.1%	91.6%	15	52.4%	+32.3%
African American / Black	95.6%	7.2	21.7%	91.7%	14.4	51.6%	+29.9%
Asian	97.8%	3.5	8.2%	95.2%	8	28.9%	+20.7%
Hispanic / Latinx	96%	6.5	18.6%	92.2%	13.5	51.8%	+33.2%
Multi-Race (Non-Hispanic)	97.5%	4.2	10.1%	94%	10.5	39%	+28.9%
White	97.5%	4.1	9.6%	94.2%	10.2	41.2%	+31.6%

### **Chronic Absenteeism and the 2022 MCAS results**

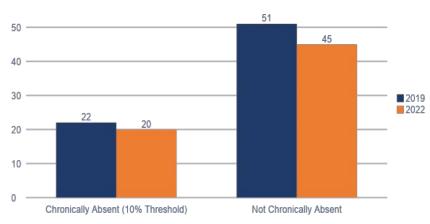
Chronic absenteeism for students in grades 3-8 increased in 2022 by 138 (41K vs 98K students) as compared to 2019 and those students were lower performing as compared to 2019.

60



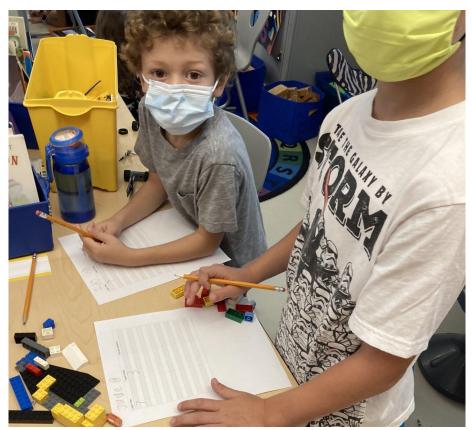
Percent of Students Meeting or Exceeding





## Considerations

- The last 2.5 school years have not been "normal"
- Increased Absenteeism many students' access to instruction was severely disrupted
- New baseline for moving forward



# How are we addressing the results?

- School-based analysis and targeted support
- Strengthen attendance practices
- CST evaluation
- New literacy assessment (mClass)
- Middle School Review
- Reimaging 9th Grade
- Ongoing SEL Initiatives



# **Questions?**