

#### MCAS Timeline



3rd graders 6th graders

## Achievement



#### **Achievement Summary**

- Impact of pandemic on early literacy instruction is being seen in results for the now upper elementary students
- Writing has been particularly impacted by the interruptions to direct instruction
- Students in older grades are rebounding in ELA more quickly from interruptions to instruction
- Mathematics outcomes demonstrate a strong rebound, especially in the upper grades
- Science outcomes demonstrate growth in grade 5 and a stronger rebound in grade 8

#### MCAS Results: Non-High School (Grades 3-8)

#### Next Generation MCAS Average Scaled Score

Subject	2019	2021	2022	2022 # Included
English language arts	514.4	512.5	508.5	1687
Mathematics	512.6	508.3	511.2	1687
Science	511.1	509.9	511.7	570
Next Generat	ion MCAS F	Percent of St	udents Me	etina or Exceedina Ex

Subject	2019	2021	2022	2022 # Included
English language arts	76	73	68	1687
Mathematics	73	67	73	1687
Science	71	67	77	570

2021

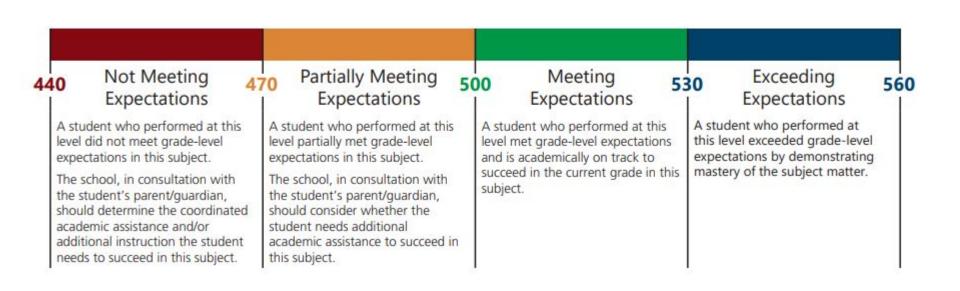
2010

Cubinet

#### Next Generation MCAS Average Student Growth Percentile (SGP)

2019	2021	2022	2022 # Included	
56.5	47.4	55.7	1337	
51.9	40.5	56.3	1340	
	2019 56.5	2019 2021 56.5 47.4	2019 2021 2022 56.5 47.4 55.7	56.5 47.4 55.7 1337

#### MCAS Scaled Score Levels



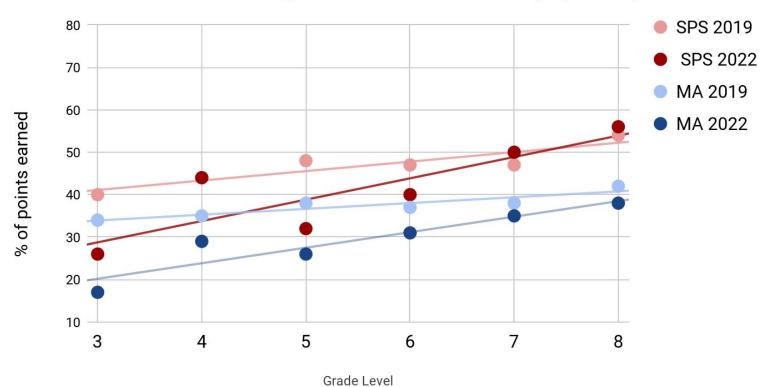
#### **ELA: State Achievement**

Grade	2019 % M/E	2021 % M/E	2022 % M/E	Change M/E 19-21	Change M/E 21-22	Change M/E 19-22
03	56	51	44	-5	-7	-12
04	52	49	38	-3	-11	-14
05	52	47	41	-5	-6	-11
06	53	47	41	-6	-6	-12
07	48	43	41	-5	-2	-7
08	52	41	42	-11	1	-10
3-8	52	46	41	-6	-5	-11

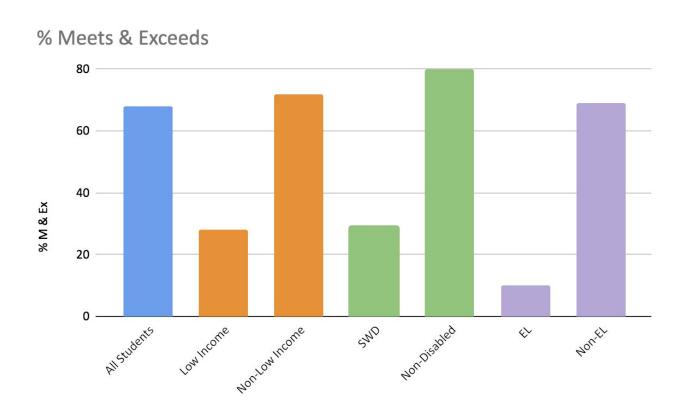
#### **ELA: SPS Achievement**

Grade	2019 % M/E	2021 % M/E	2022 % M/E	Change M/E 19-21	Change M/E	Cumulative Change M/E 19-22
3	87	68	72	-19	4	-15
4	75	76	67	1	-9	-8
5	78	67	63	-11	-4	-15
6	76	74	63	-2	-11	-13
7	74	73	68	-1	-5	-6
8	76	76	76	0	0	0

Grades 3-8 Writing: Production & Distribution (Topic Dev.)

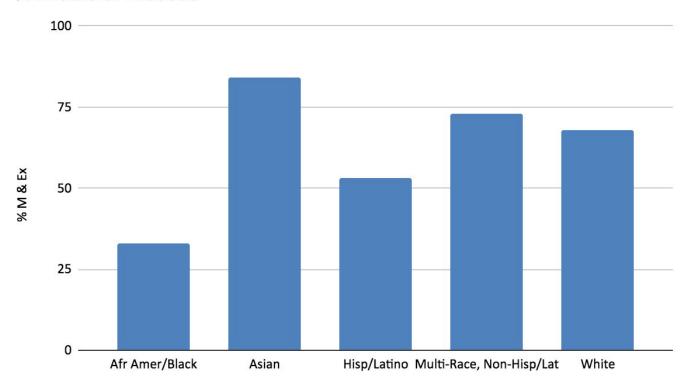


#### ELA: High Needs Subcategories Grades 3-8

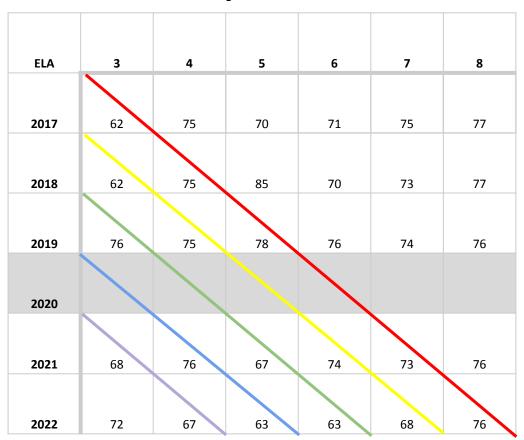


#### ELA: Race Grades 3-8

#### % Meets & Exceeds



### Year/Year ELA Cohort Analysis (M & E %)



#### Math: State Achievement

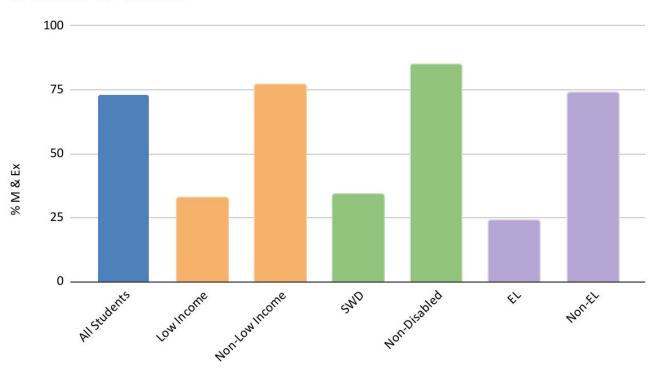
Grade	2019 % M/E	2021 % M/E	2022 % M/E	Change M/E 19-21	Change M/E 21-22	Change M/E 19-22
03	49	33	41	-16	+8	-8
04	50	33	42	-17	+9	-8
05	48	33	36	-15	+3	-12
06	52	33	42	-19	(+9)	-10
07	48	35	37	-13	+2	-11
08	46	32	36	-14	+4	-10
3-8	49	33	39	-16	+6	-10

#### Math: SPS Achievement

Grade	2019 % M/E	2021 % M/E	2022 % M/E	Change M/E 19-21	Change M/E	Cumulative Change M/E 19-22
3	70	55	66	-15	11	-4
4	75	74	71	-1	-3	-4
5	81	64	71	-17	7	-10
6	78	68	73	-10	5	-5
7	70	76	80	6	4	10
8	64	62	76	-2	14	12

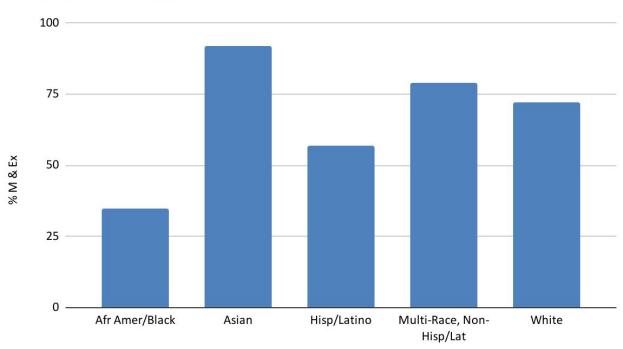
#### Math: High Needs Subcategories Grades 3-8



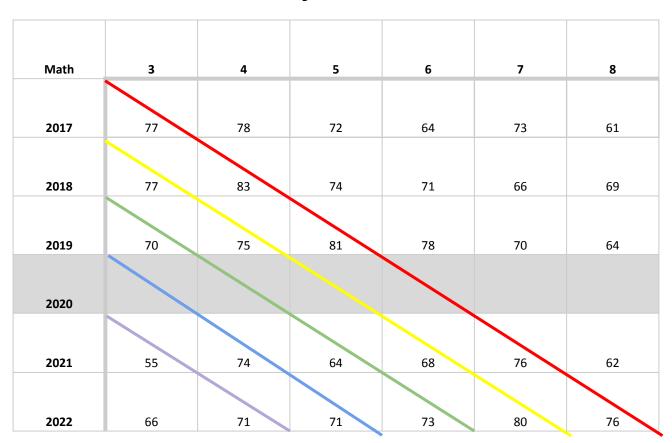


#### Math: Race Grades 3-8





#### Year/Year Math Cohort Analysis (meets & exceeds %)



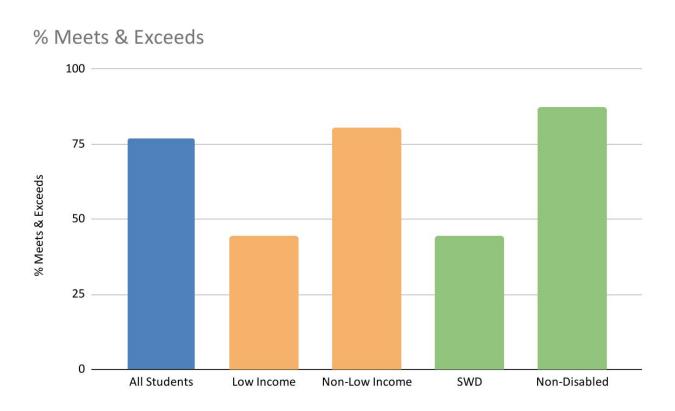
#### Science: State Achievement

Grade	2019 % M/E	2021 % M/E	2022 % M/E	Change M/E 19-21	Change M/E 21-22	Change M/E 19-22
05	49	42	43	-7	+1	-6
08	46	41	42	-5	41	-4

#### Science: SPS Achievement

Grade	2019 % M/E	2021 % M/E	2022 % M/E	Change M/E 19-21	Change M/E 21-22	Cumulative Change M/E 19-22
5	79	69	75	-10	-4	-4
8	63	66	79	3	13	16

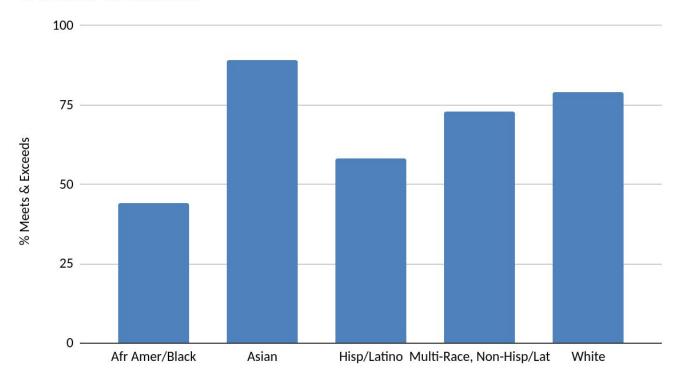
#### Science: High Needs Subcategories Grades 3-8



EL: N<30

#### Science, Technology & Engineering: Race Grades 3-8





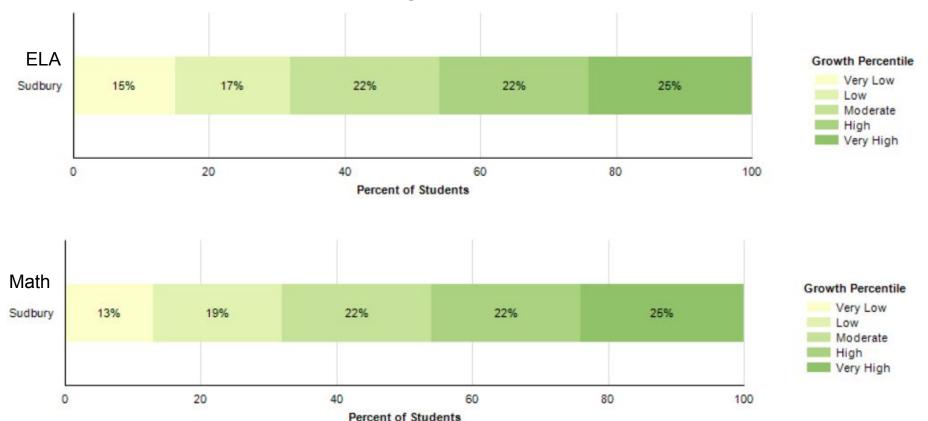
# Growth



#### **Growth Summary**

- Mean for all students and all subgroups are in the moderate range with Asian students showing high growth in ELA and Mathematics and Multi-Race, Non Hispanic/Latino in ELA
- Student Growth Percentile calculations will use the cohort model going forward, based upon 2022 cohorts

#### Student Growth Percentages: Grades 4-8



#### **ELA Student Growth**

English language arts growth - Non-high	About the Data		
Group	2019 Mean SGP	2022 Mean SGP	N
All Students	56.5	55.7	1,337
High needs	50.1	49.1	405
Low income	44.8	49.2	111
EL and Former EL	58.2	49.2	60
Students w/ disabilities	48.5	48.3	324
Amer. Ind. or Alaska Nat.		-	1
Asian	62.8	63.9	146
Afr. Amer./Black	55.1	51.4	42
Hispanic/Latino	57.9	53.6	57
Multi-race, Non-Hisp./Lat.	55.5	61.8	96
Nat. Haw. or Pacif. Isl.	-	_	3
White	55.8	54.1	992

#### Math: Student Growth

Mathematics growth - Non-high school						
Group	2019 Mean SGP	2022 Mean SGP	N			
All Students	51.9	56.3	1,340			
High needs	44.8	53.2	405			
Low income	42.9	50.6	109			
EL and Former EL	53.5	58.0	60			
Students w/ disabilities	43.6	52.0	324			
Amer. Ind. or Alaska Nat.	-	87	1			
Asian	60.4	65.0	147			
Afr. Amer./Black	43.9	47.0	42			
Hispanic/Latino	51.6	52.7	58			
Multi-race, Non-Hisp./Lat.	52.8	59.8	98			
Nat. Haw. or Pacif. Isl.	-	2	3			
White	51.2	55.3	991			

# Next Steps



#### Connection to District Improvement Efforts

- ELA Curriculum Review and Implementation of Dyslexia Working Group Plan to meet the needs of all learners;
- Item analysis by curriculum and instructional teams to identify areas of needs and recommendations for adjustments to scope and sequences of instruction;
- Student and cohort level analysis, including local benchmarking data, to identify strengths and areas for support;
- Professional development focused on "at risk" populations;
- Tiered supports for general education students, especially at schools with high needs populations;
- Provide additional instructional opportunities through SMILE and ESY.

#### **Accountability Summary**

- Accountability ratings suspended for 2022
- 2022 school and district ratings will serve as baseline for 2023 accountability ratings
- School accountability percentiles ranged from 84-96%.

...the major purpose of assessment in schools should be to provide interpretive information to teachers and school leaders about their impact on students, so that these educators have the best information about what steps to take with instruction and how they need to change and adapt.

--John Hattie, Education Week, vol 35, #10, October 28, 2015

# Accountability



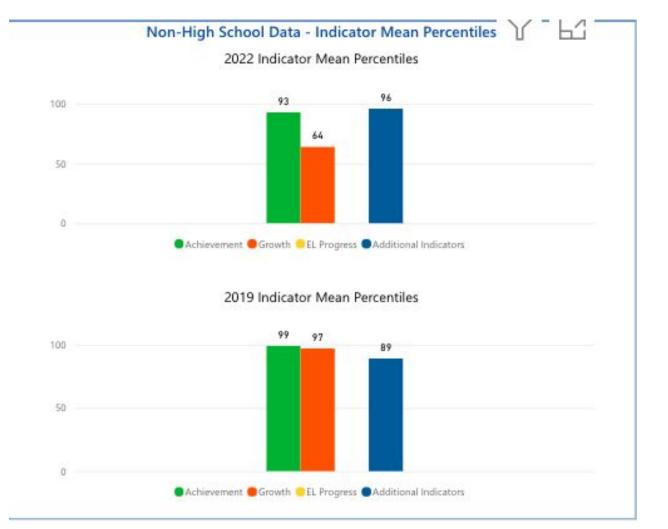
#### Accountability (DART Sudbury link)

		Accountability information	School accountability percentile
		Due to the COVID-19 pandemic, most districts and schools did not receive an accountability determination in 2022	92
General John Nixon Elementary		Due to the COVID-19 pandemic, most districts and schools did not receive an accountability determination in 2022	96
Israel Loring School		Due to the COVID-19 pandemic, most districts and schools did not receive an accountability determination in 2022	84
Josiah Haynes		Due to the COVID-19 pandemic, most districts and schools did not receive an accountability determination in 2022	95
Peter Noyes		Due to the COVID-19 pandemic, most districts and schools did not eceive an accountability determination in 2022	92

#### **Criterion-Referenced Accountability Factors**

- **achievement** in English language arts (ELA), mathematics, and science based on MCAS assessments;
- growth in ELA and mathematics;
- progress toward English proficiency based on the ACCESS that English learners (ELs) take annually, and rates the school and district on the percentage of ELs meeting annual targets to achieve English proficiency in six years
- **chronic absenteeism** based on the percentage of students in grades 1-8 missing 10% or more days of school.

(DESE summary <u>link</u>)



EL < 30

#### **Normative Component Accountability Factor**

Compares the performance of the students in a school to all other similar schools in the state.

**Accountability percentile**, compares the individual indicators from the 2022 data, ranks them, and assigns a percentile from 1 to 99. Districts are not assigned an accountability percentile.

(DESE summary <a href="link">link</a>)

#### Accountability (DART Sudbury link)

School	Accountability information	School accountability percentile
Ephraim Curtis Middle	Due to the COVID-19 pandemic, most districts and schools did not receive an accountability determination in 2022	92
General John Nixon Elementary	Due to the COVID-19 pandemic, most districts and schools did not receive an accountability determination in 2022	96
Israel Loring School	Due to the COVID-19 pandemic, most districts and schools did not receive an accountability determination in 2022	84
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