2022-23 Fall MTRSD Data Report

November 2022

Superintendent's Student Learning Goal
Data Driven Instruction

- Establish District-wide Data Warehouse
  - By December 2022, under my direction the district will develop a data warehouse that includes multiple data markers, including MCAS, from Kindergarten through grade 12
  - By June 2023, under my direction the district will create a system of regular data analysis that aligns professional development, classroom instruction, and data meetings that focus on increasing student achievement in math and literacy

Context

Our goal is consistent reporting on similar data sets year-to-year

Twice-yearly report on district-level academic achievement and progress

Trends and Areas of Focus

Data sets are limited, but useful:

- Unfinished instruction
- Fluctuating cohorts
- Changes in assessments
- New systems
- Different reporting systems

What Data is Included?

K-8 - universal screening tools and diagnostics

3-10 MCAS

HS - AP, SAT, Secondary and post-secondary outcomes

First look at some parts of the data dashboard

Literacy Data

Current Data Sets:

- DIBELS K-8 - universal screening given 3 times per year, predictive of literacy outcomes (subtests measure different skills)
- MCAS Scaled Scores
- MCAS SGP

Uses:

- To identify curricular gaps and areas of instructional focus
- To identify students in need of intervention
- To group students for differentiated and tiered instruction
- To monitor progress over time

Blue - exceeding expectations
Green - meeting expectation

Yellow - partially meeting expectations
Red - not meeting expectations

2021-2022 All Grades Status - DIBELS 8th Edition

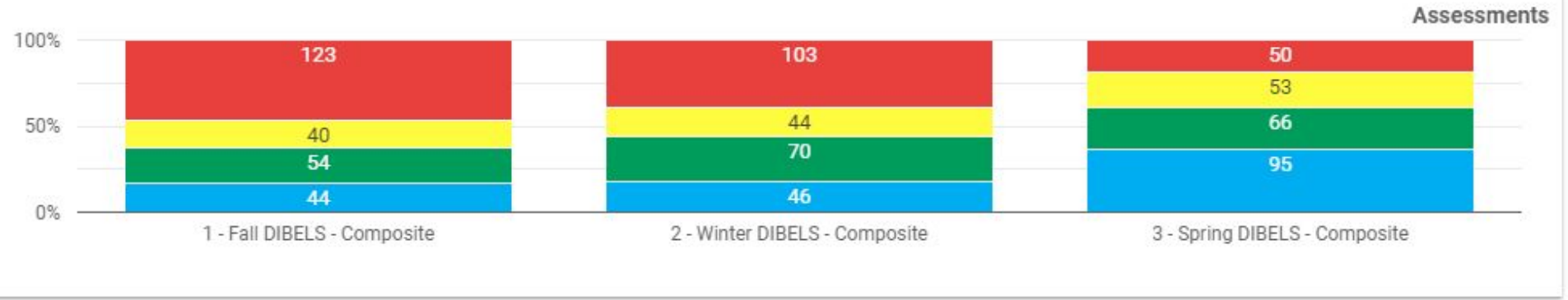
District: Mohawk Trail -Hawlemont Regional School District

DIBELS® Data System

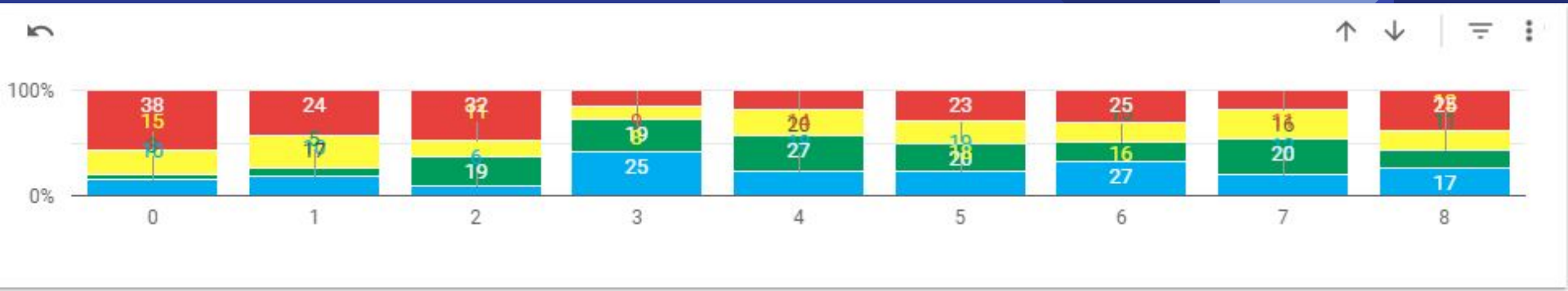
Grade	Beginning				Middle				End			
K	n=59	36 (61%)	15 (25%)	1 (2%)	7 (12%)	n=56	28 (50%)	12 (21%)	8 (14%)	8 (14%)	n=58	24 (41%)	6 (10%)	19 (33%)	9 (16%)
1st	n=64	42 (66%)	9 (14%)	11 (17%)	2 (3%)	n=65	36 (55%)	10 (15%)	16 (25%)	3 (5%)	n=64	21 (33%)	8 (13%)	21 (33%)	14 (22%)
2nd	n=70	30 (43%)	9 (13%)	16 (23%)	15 (21%)	n=64	18 (28%)	9 (14%)	17 (27%)	20 (31%)	n=66	13 (20%)	9 (14%)	21 (32%)	23 (35%)
3rd	n=81	27 (33%)	8 (10%)	26 (32%)	20 (25%)	n=84	24 (29%)	13 (15%)	30 (36%)	17 (20%)	n=85	18 (21%)	15 (18%)	19 (22%)	33 (39%)
4th	n=76	20 (26%)	13 (17%)	27 (36%)	16 (21%)	n=73	18 (25%)	9 (12%)	23 (32%)	23 (32%)	n=78	18 (23%)	27 (35%)	17 (22%)	16 (21%)
5th	n=84	29 (35%)	18 (21%)	20 (24%)	17 (20%)	n=86	31 (36%)	19 (22%)	24 (28%)	12 (14%)	n=89	33 (37%)	12 (13%)	16 (18%)	28 (31%)
6th	n=77	18 (23%)	16 (21%)	22 (29%)	21 (27%)	n=76	13 (17%)	13 (17%)	32 (42%)	18 (24%)	n=77	12 (16%)	14 (18%)	16 (21%)	35 (45%)
7th	n=67	14 (21%)	25 (37%)	21 (31%)	7 (10%)	n=58	22 (38%)	13 (22%)	15 (26%)	8 (14%)	n=65	25 (38%)	16 (25%)	17 (26%)	7 (11%)
8th	n=56	20 (36%)	15 (27%)	9 (16%)	12 (21%)	n=49	19 (39%)	8 (16%)	14 (29%)	8 (16%)	n=50	19 (38%)	6 (12%)	16 (32%)	9 (18%)
All	n=634	236 (37%)	128 (20%)	153 (24%)	117 (18%)	n=611	209 (34%)	106 (17%)	179 (29%)	117 (19%)	n=632	183 (29%)	113 (18%)	162 (26%)	174 (28%)

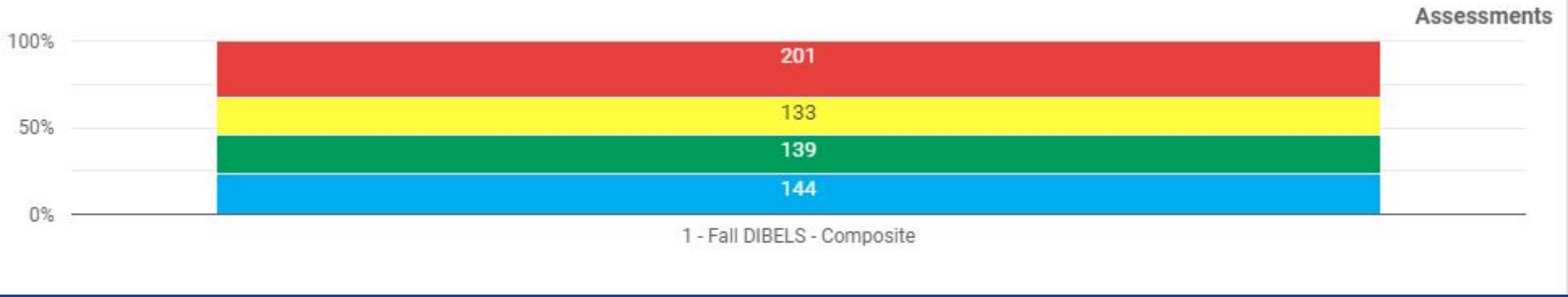
Legend n = Number of Students | Intensive Support | Strategic Support | Core Support | Core^ Support

Results Based On DIBELS 8 Composite Score



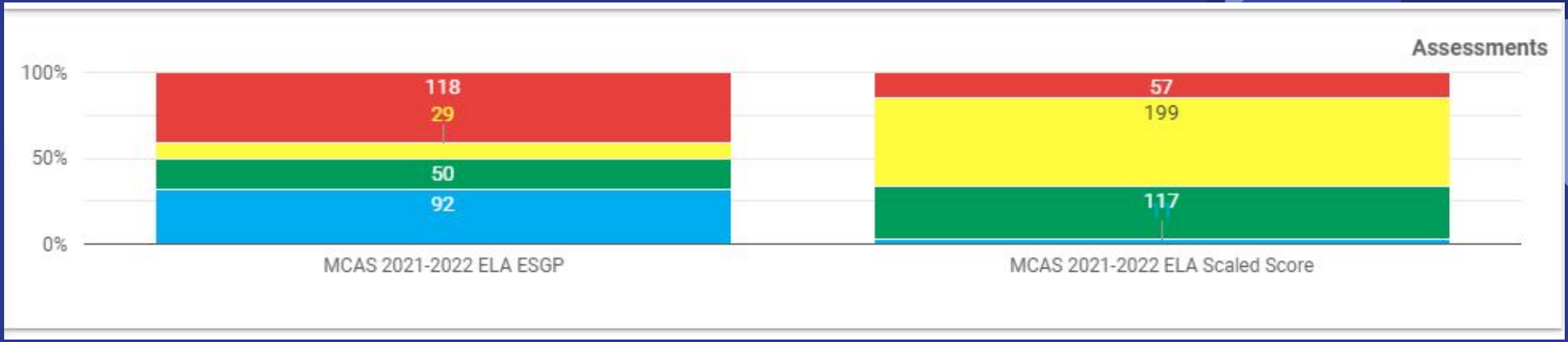
2021-22 DIBELS (K-3 Shown) - Grades with greatest focus on literacy intervention via data analysis, science of reading, targeted instruction



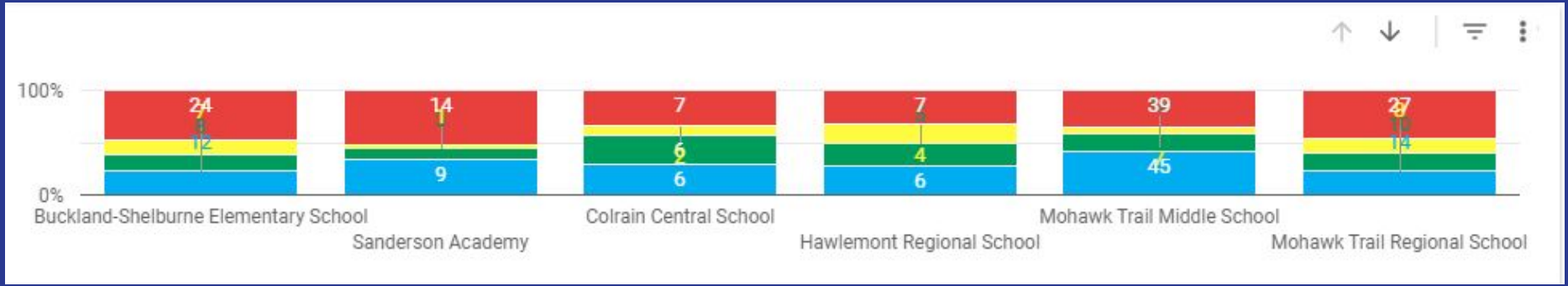


Fall 2022 DIBELS (K-8) by grade and summary

ELA MCAS - District Aggregate scores



Student Growth by school



Math Data

Current Data Sets:

- AVMR-Based Screener K-6 given 3 times/year
- GLOSS screener - 7-8 two times per year

Both screeners identify foundational skills for grade-level math

- MCAS Scaled Scores
- MCAS SGP

Uses:

- To identify curricular gaps and areas of instructional focus
- To identify students in need of intervention
- To group students for differentiated and tiered instruction
- To monitor progress over time

Blue - exceeding expectations
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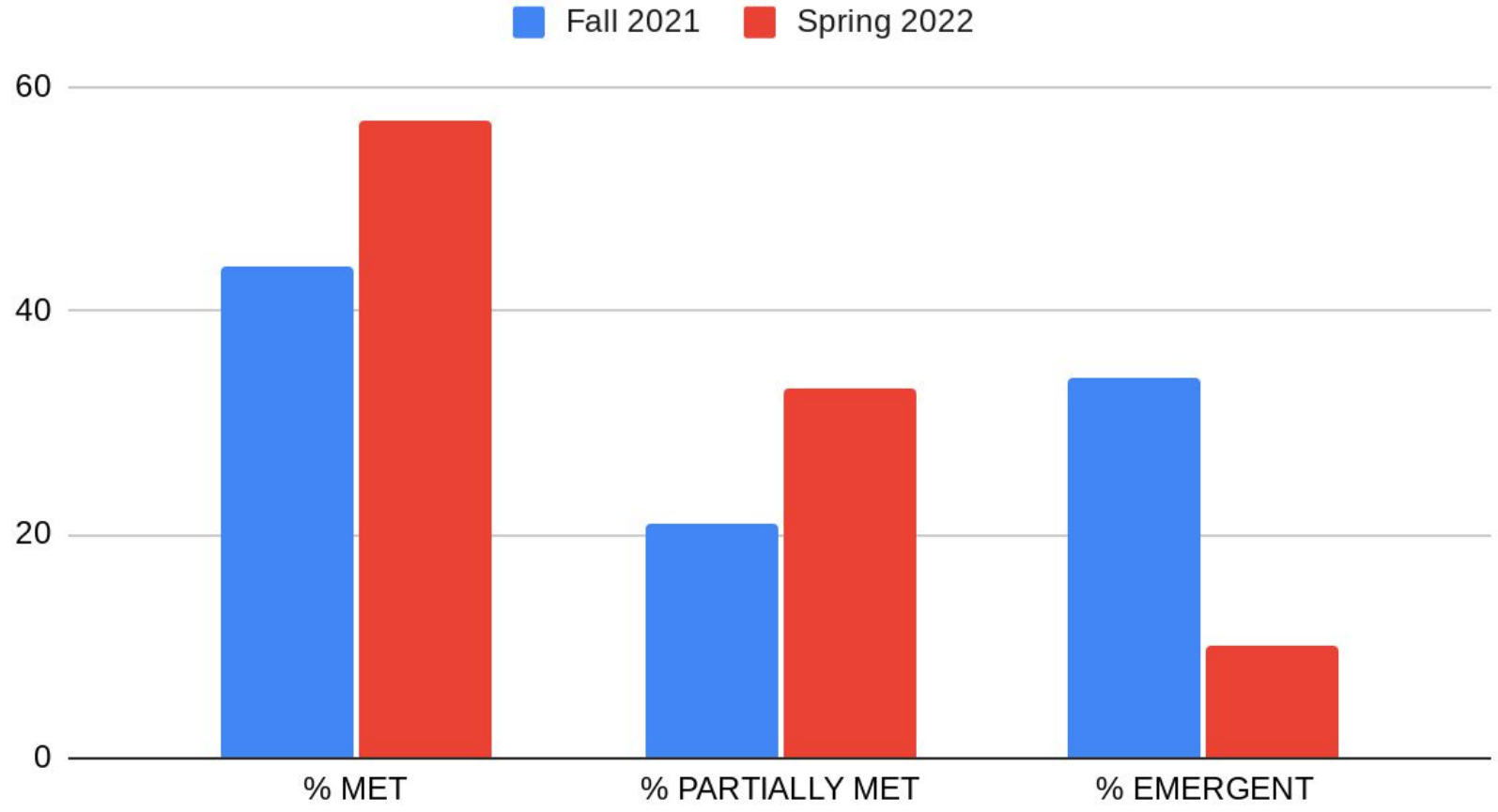
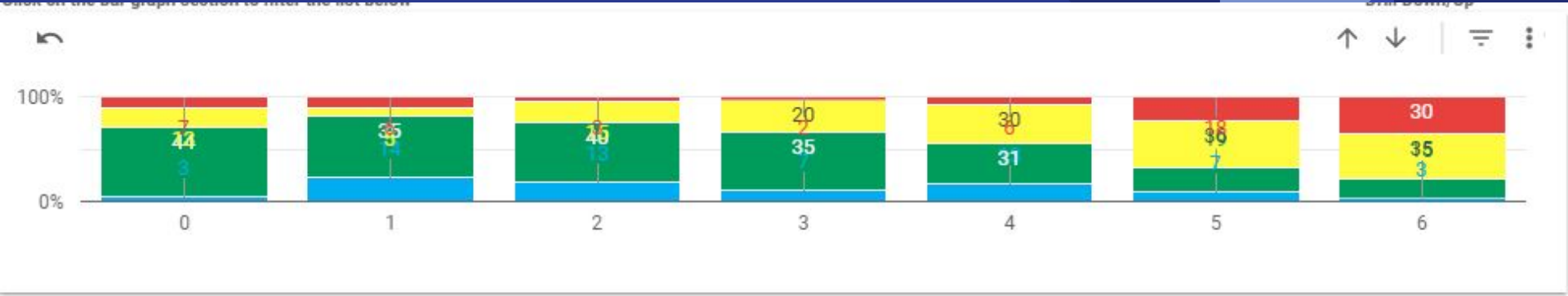
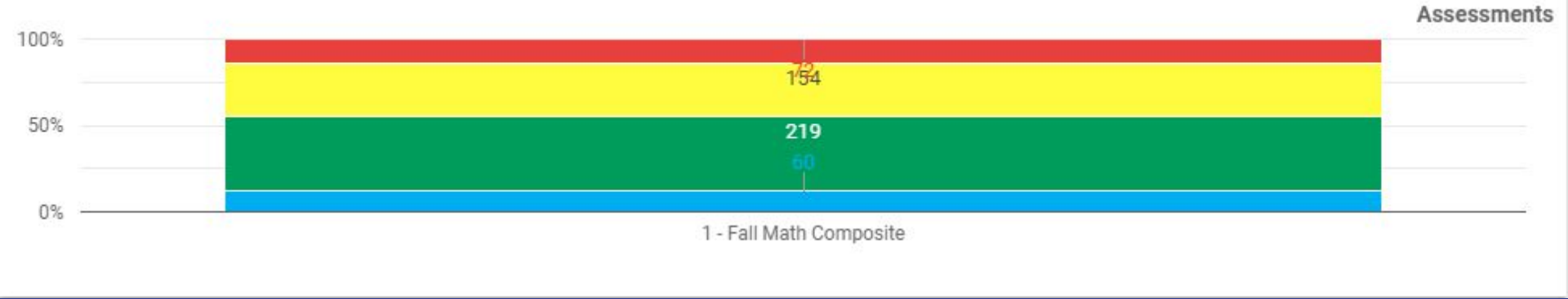
K-6 MTRSD Math Screeners: Fall 2021 & Spring 2022



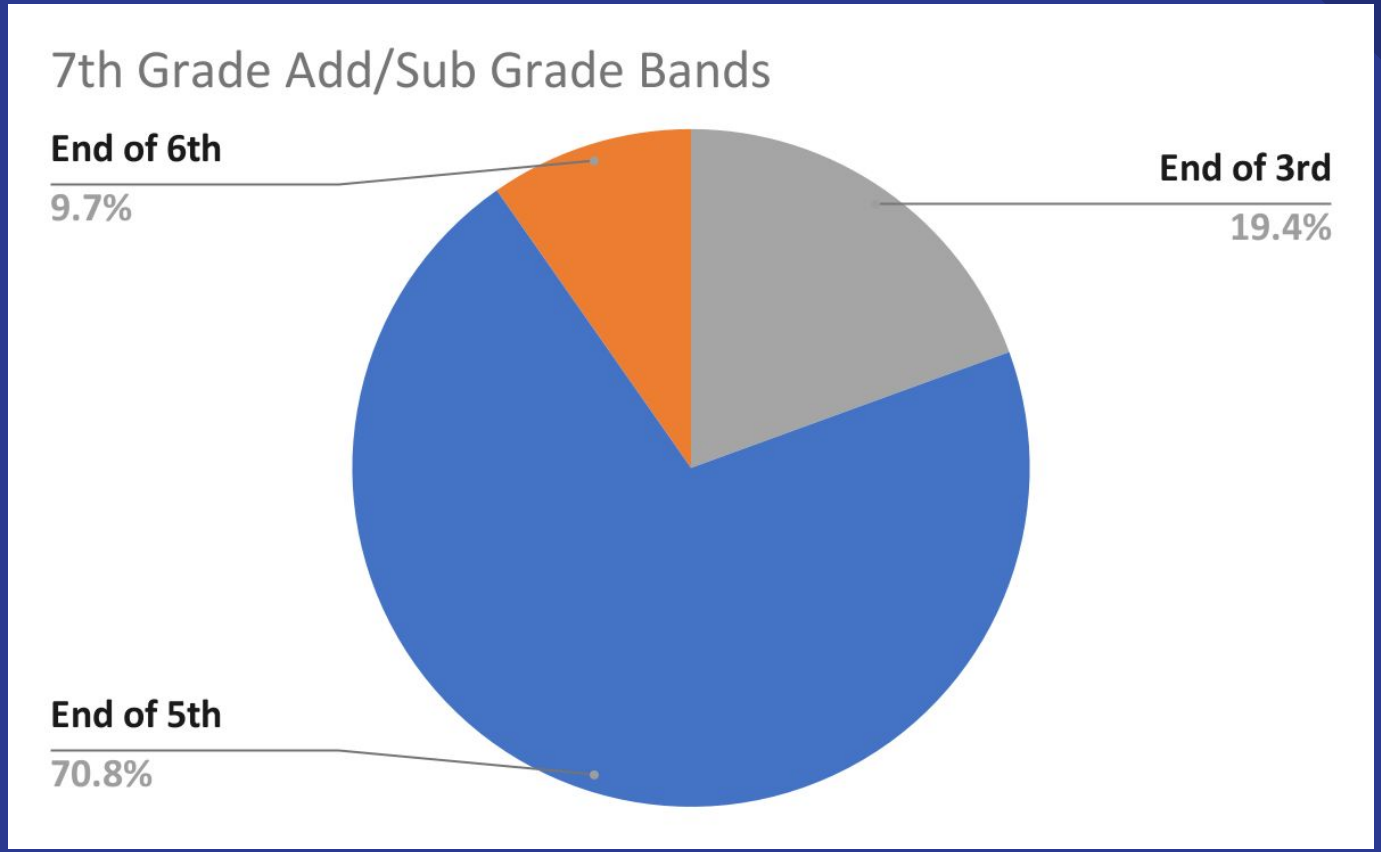




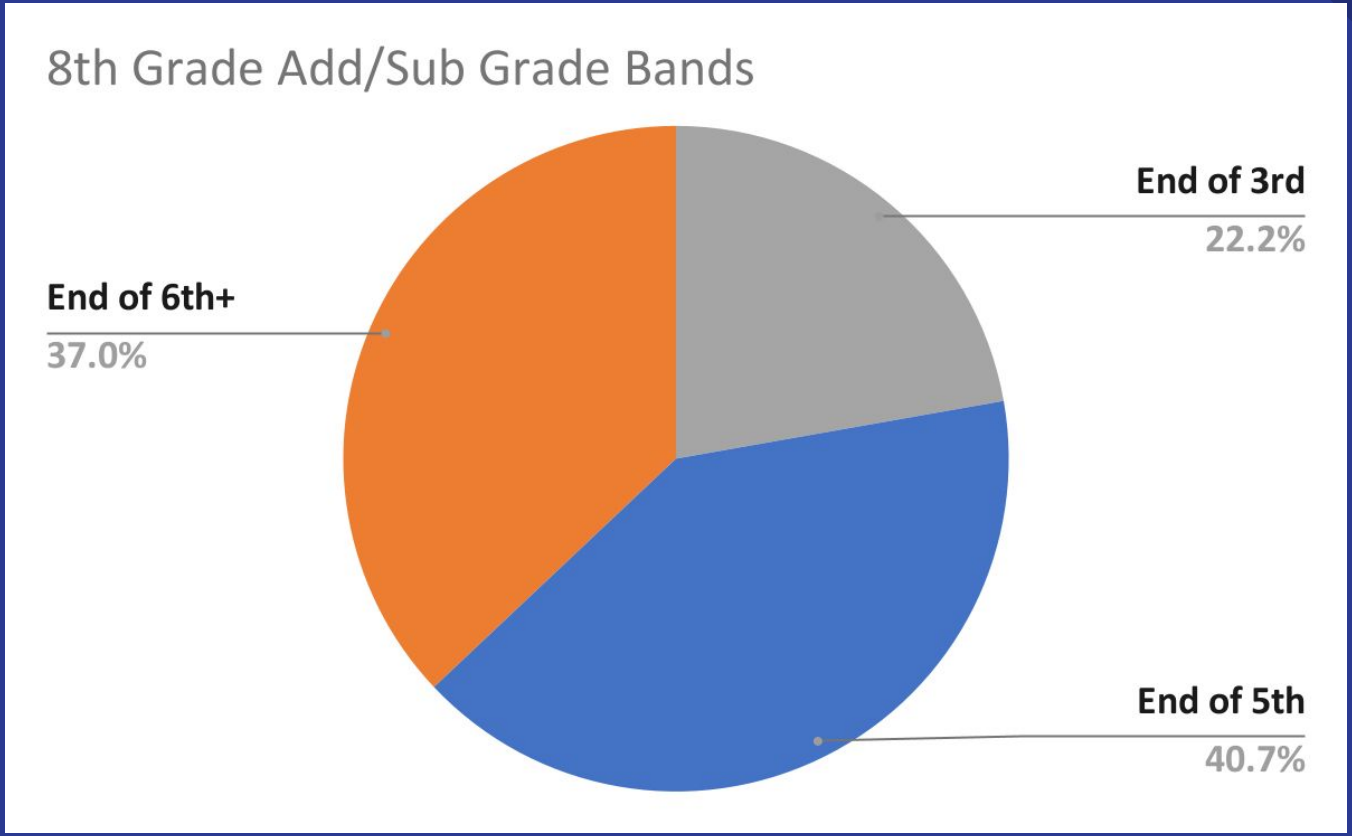
Fall K-6 AVMR-Based Screener by Grade (top) and Aggregate (bottom)

GloSS

- All 7th and 8th graders were assessed using the GloSS - 1:1 interview to their individual learning profile of numeracy development
- This is a new assessment for the district that continues the approach to assessment used in the AVMR-based screeners for grades K-6.
- They were assessed in the domains of Addition/Subtraction, Multiplication/Division, and Proportions and Ratios
- WIN Time will be used to provide interventions in these domain areas throughout the school year, beginning with addition/subtraction

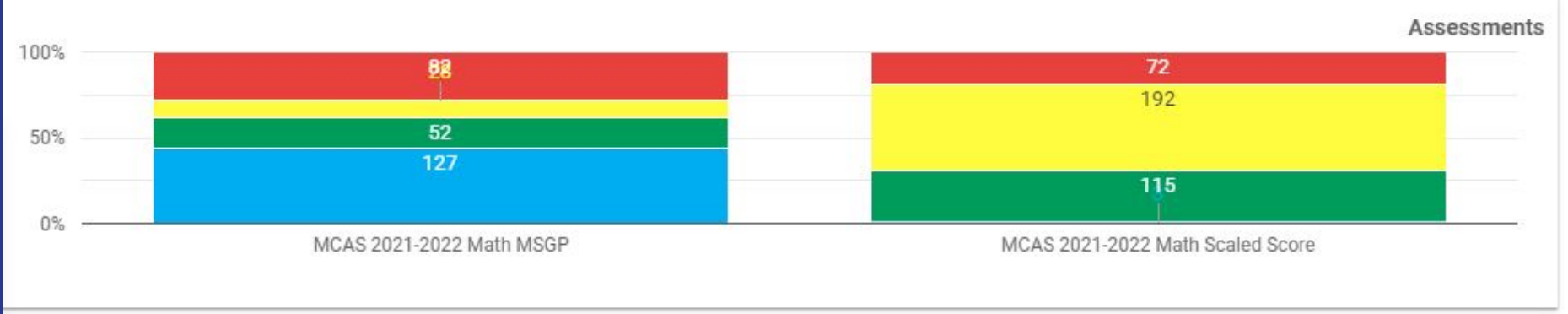


7th grade GLOSS levels in addition subtraction



8th grade GLOSS levels in addition subtraction

Math MCAS - District Aggregate scores



Student Growth by school

Science Data

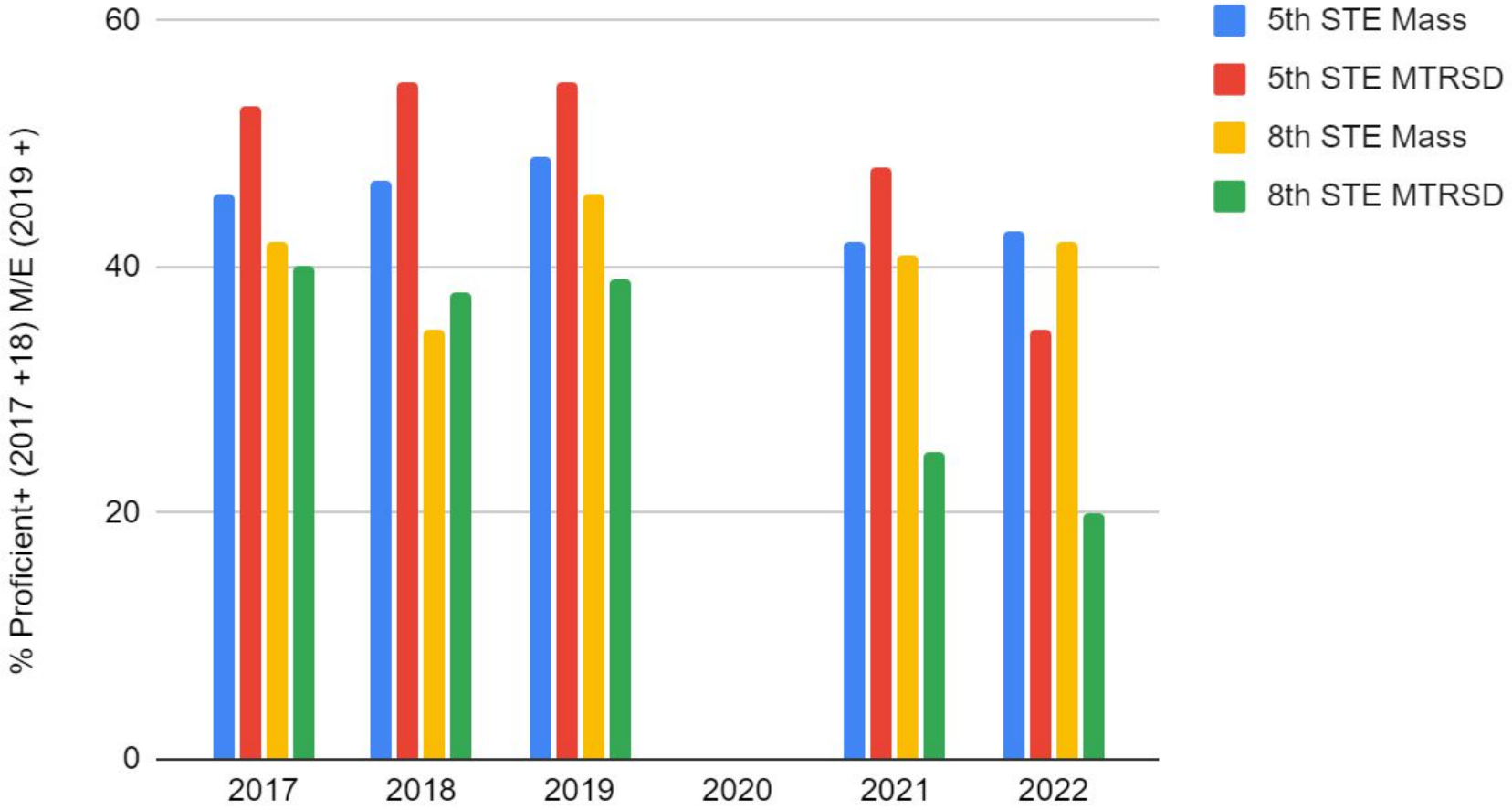
MCAS Data

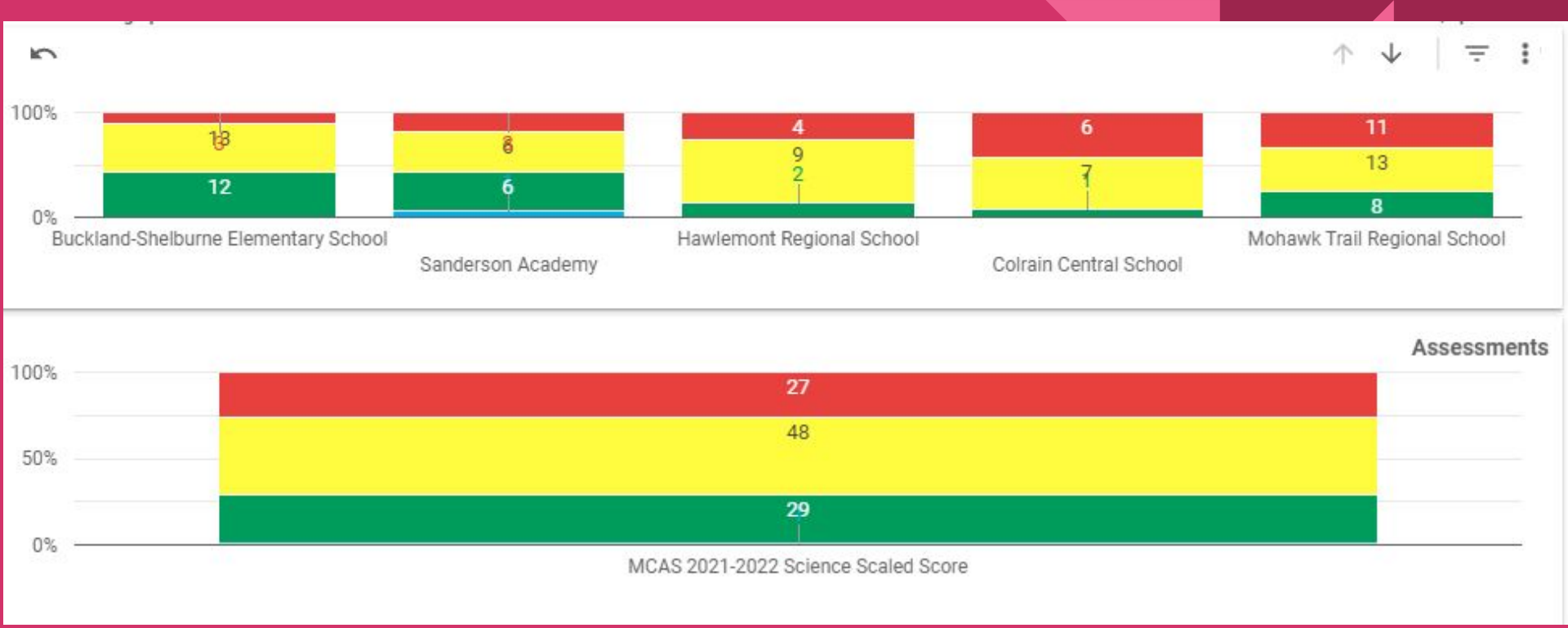
- 5th grade STE - addresses grades 3-5 science standards
- 8th STE - addresses grades 6-8 science standards
- 10th STE - addresses HS Biology Standards

Data Uses:

- Curricular review
- Course-based assessments used to monitor student progress in curriculum
- Currently we do not have a district science assessment system

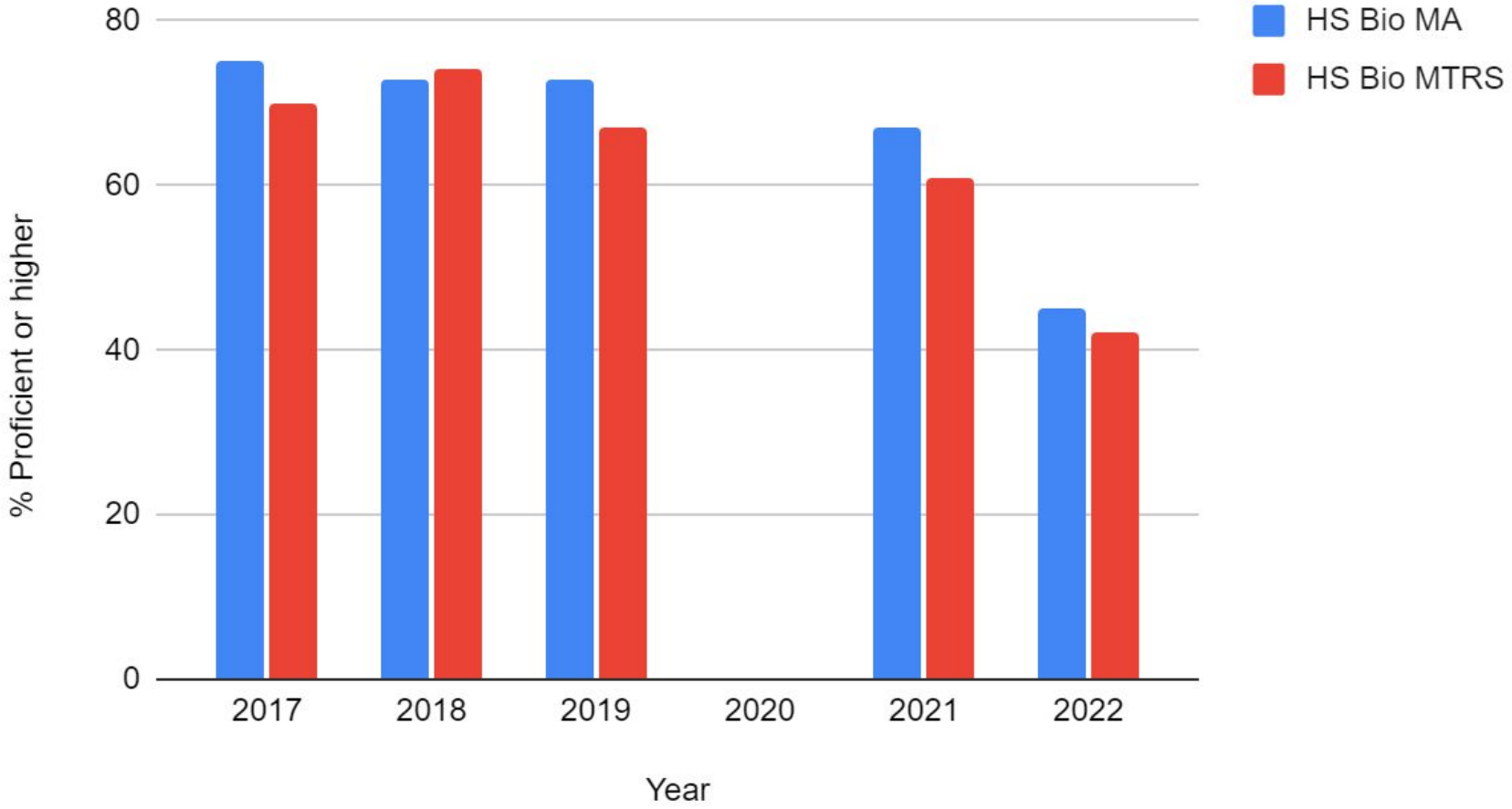
STE MCAS District and State Comparison





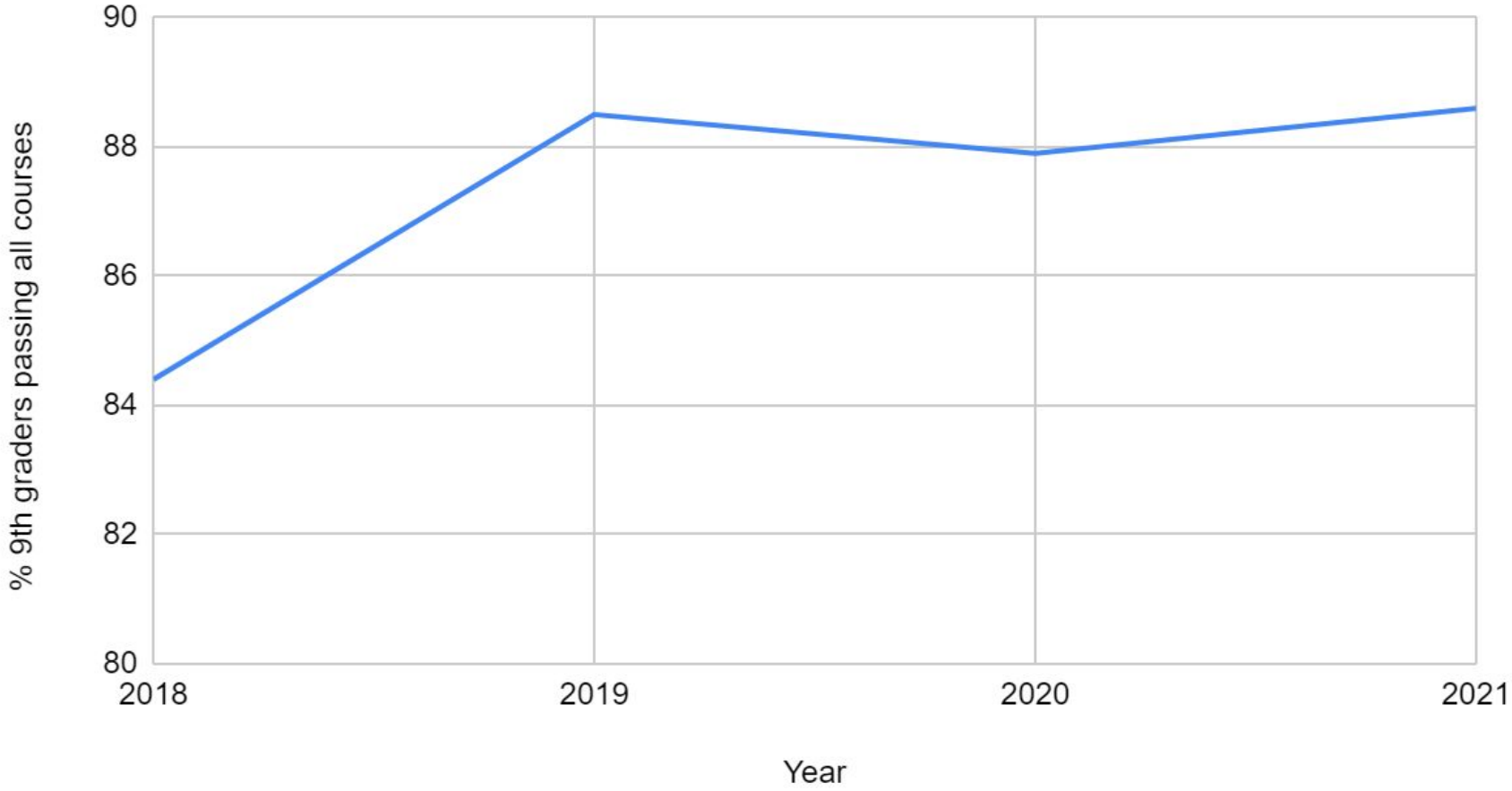
Grades 5 + 8 STE Scaled Score by School - Assessment of 3rd-5th and 6th-8th grade standards

HS Biology District and State Comparison

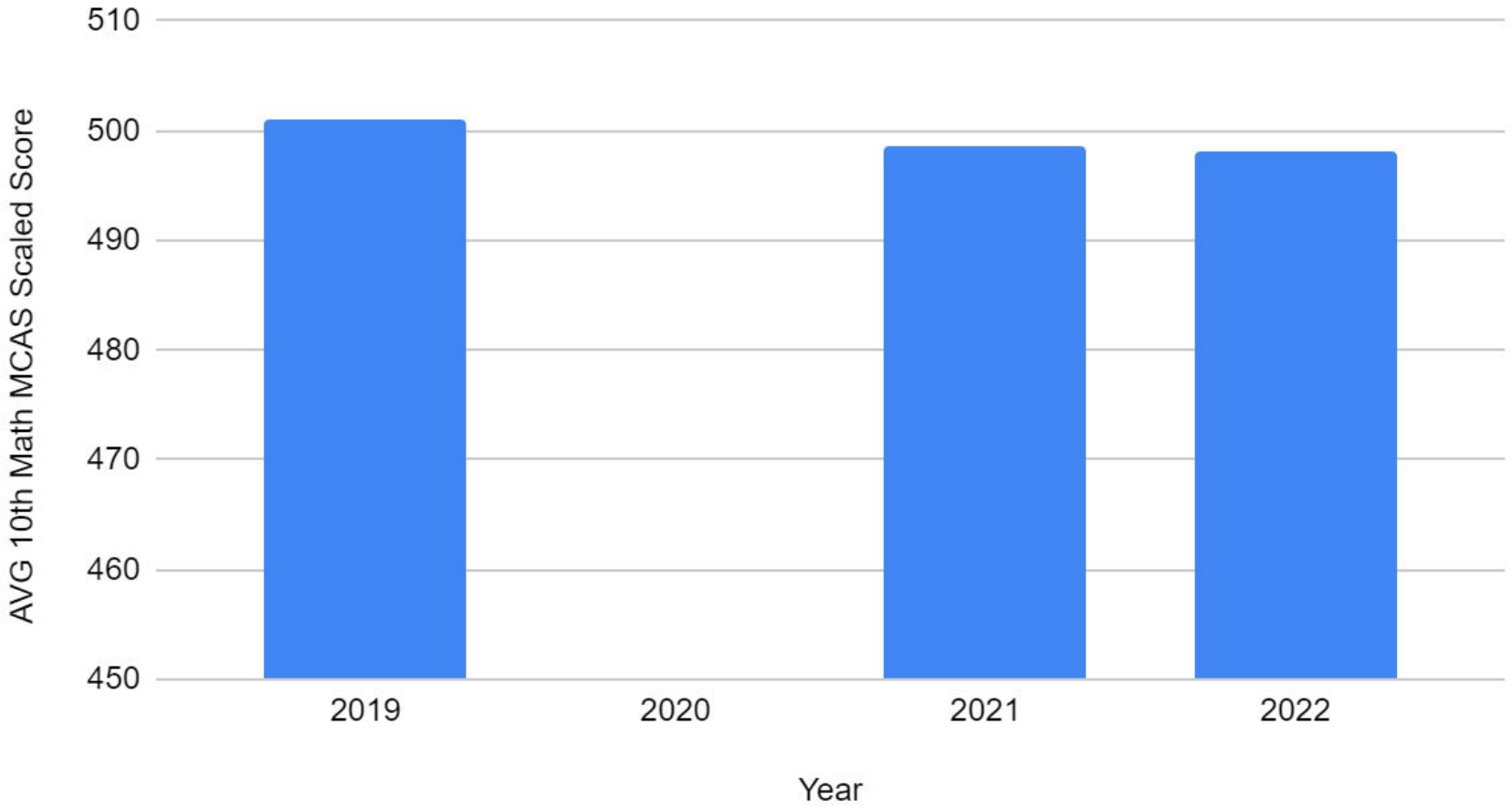


High School - trends over time

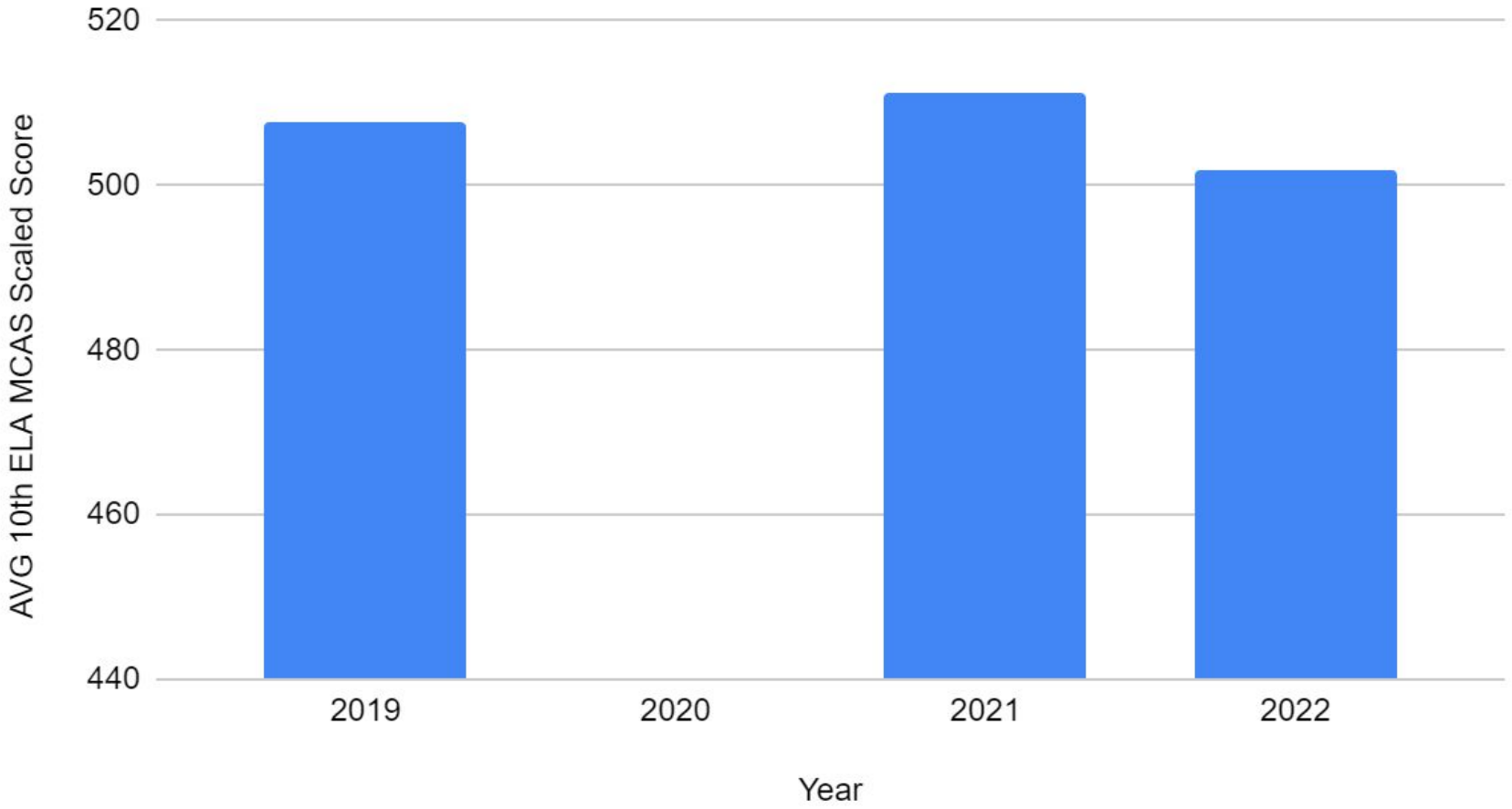
Percentage of 9th graders passing all courses by Year



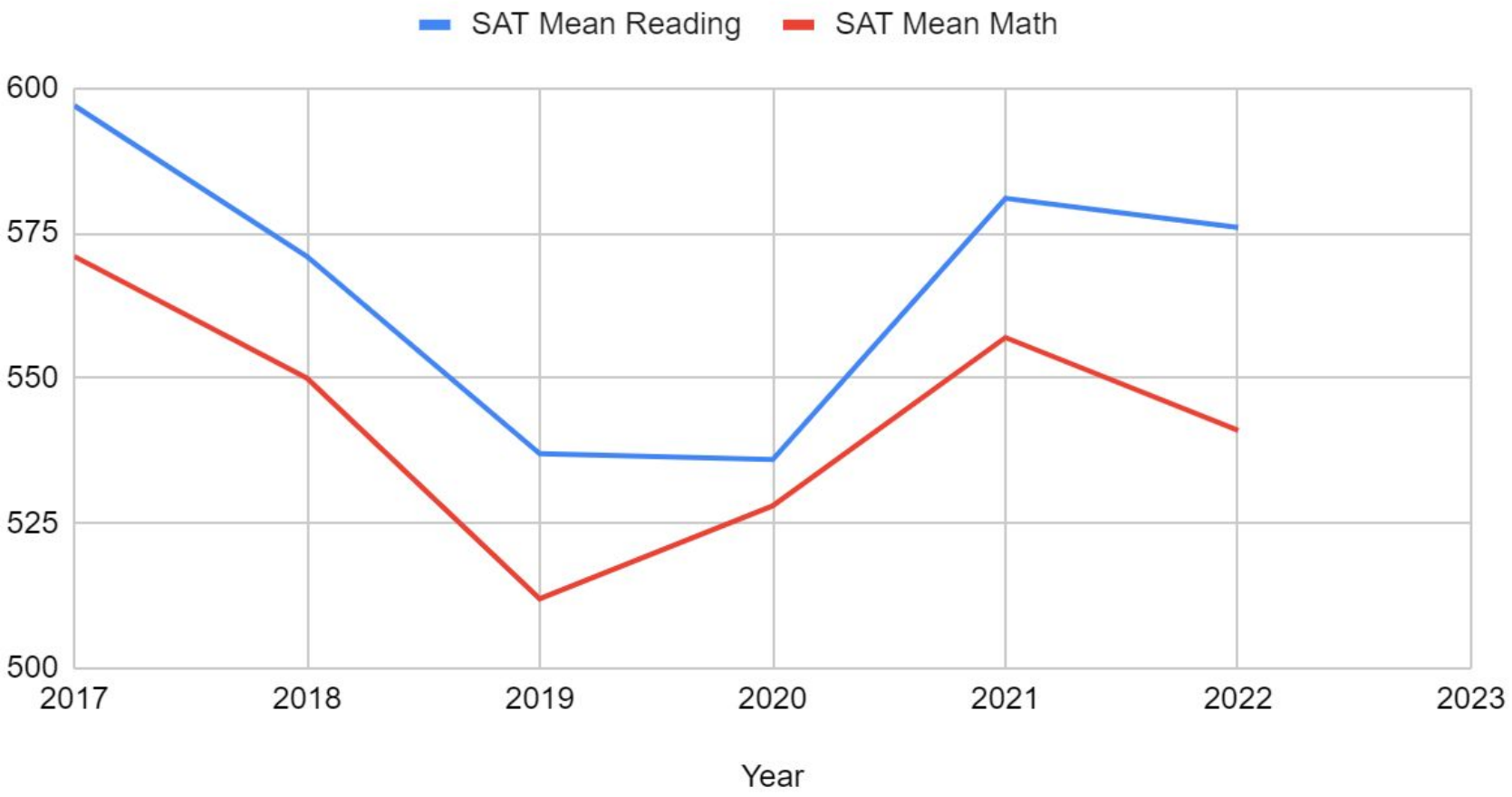
AVG 10th Math MCAS Scaled Score vs. Year

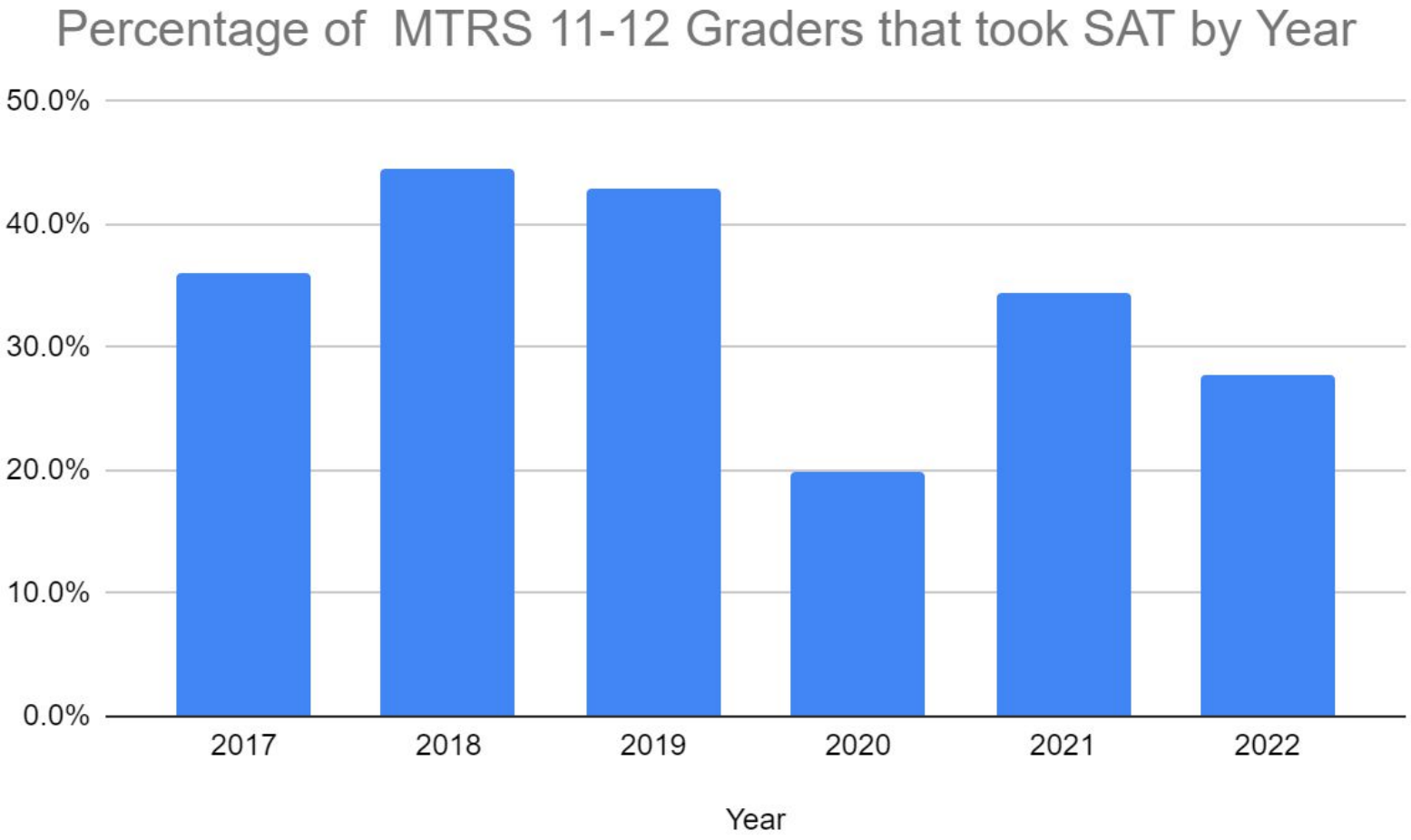


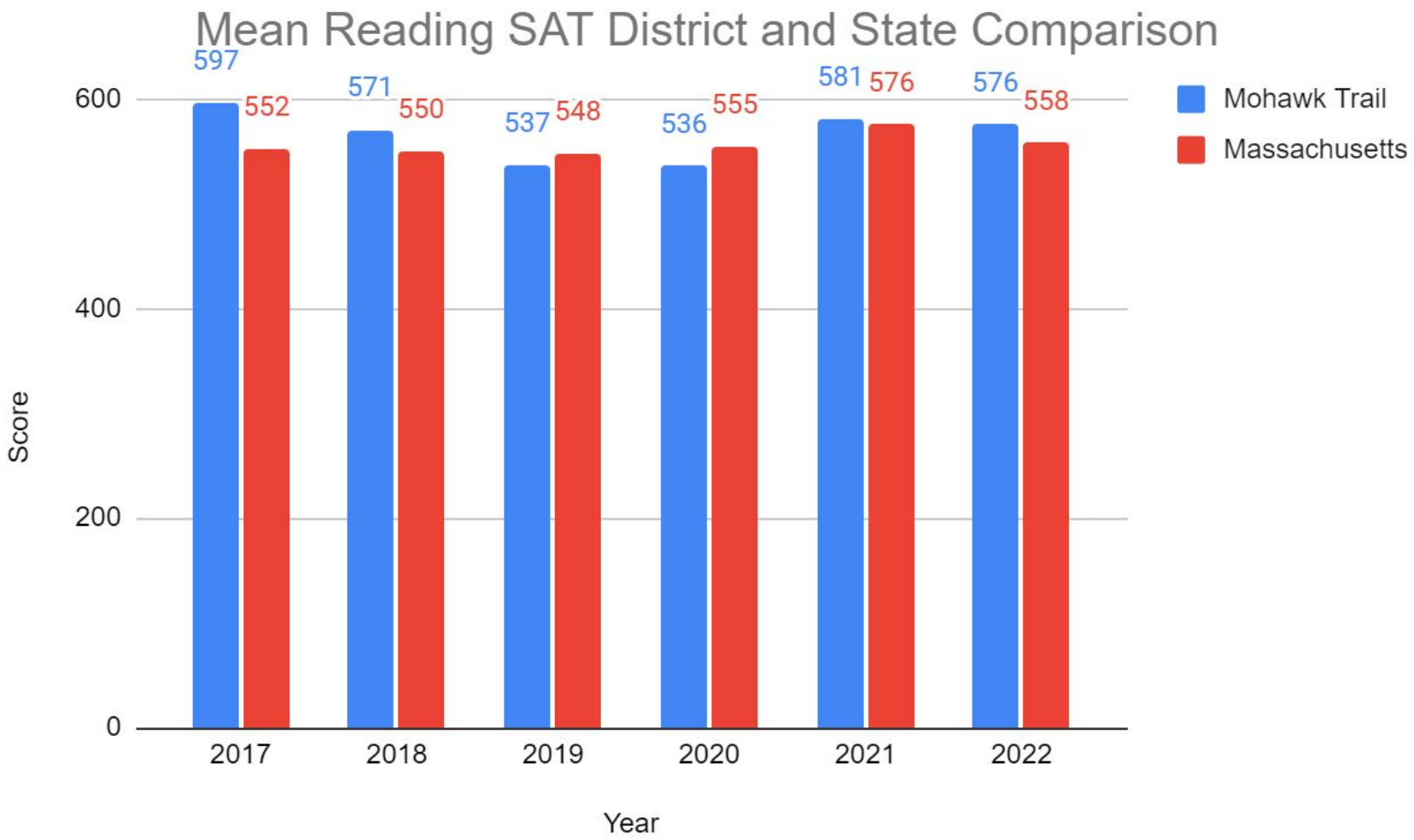
AVG 10th ELA MCAS Scaled Score vs. Year

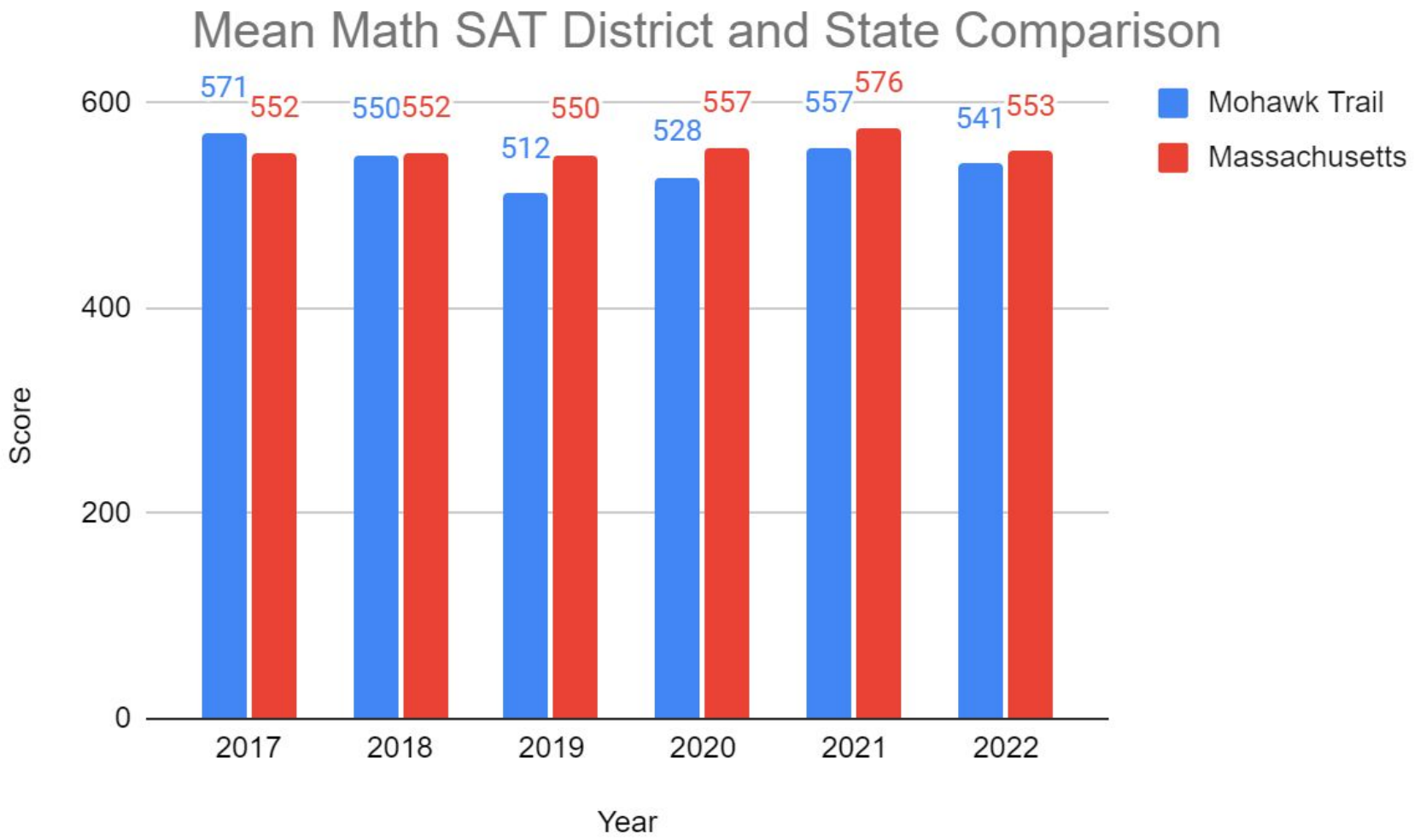


SAT Mean Reading and SAT Mean Math

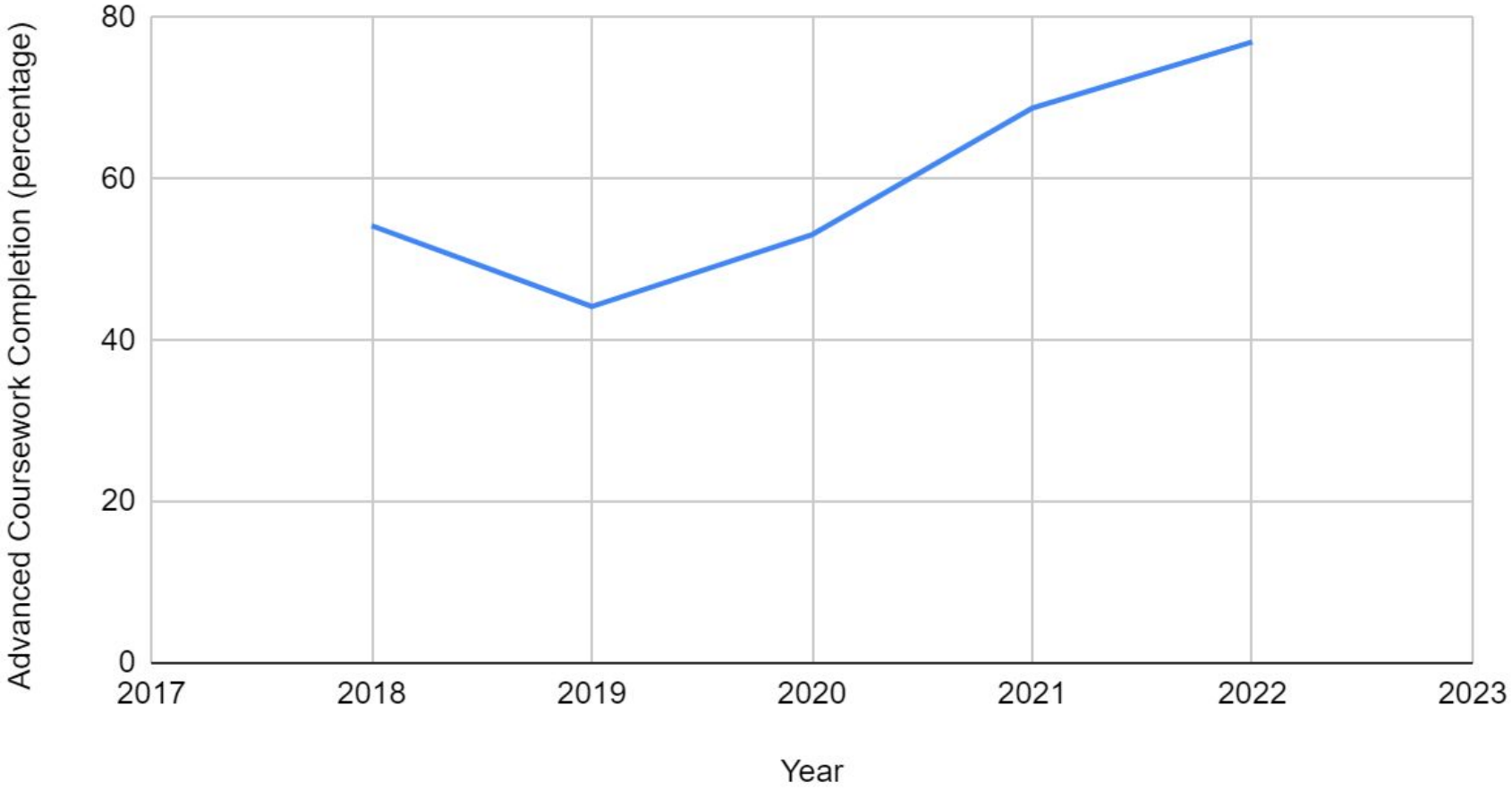



Percentage of MTRS 11-12 Graders that took SAT by Year
50.0%
40.0%
30.0%
20.0%
10.0%
0.0%
2017
2018
2019
2020
2021
2022
Year

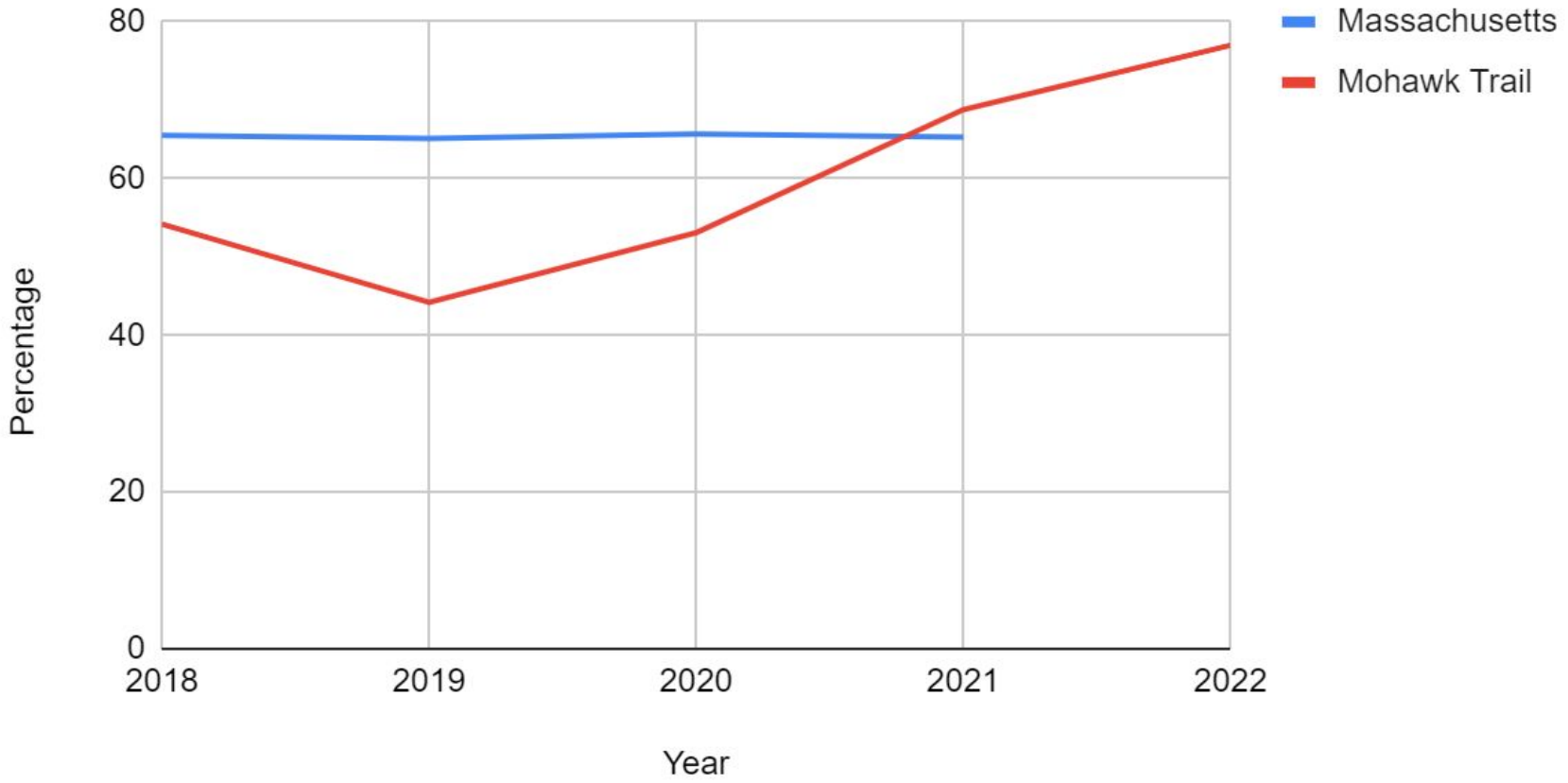

Mean Reading SAT District and State Comparison
597
552
571
550
537
548
536
555
581
576
576
558
600
400
200
0
Score
2017
2018
2019
2020
2021
2022
Year
Mohawk Trail
Massachusetts


Mean Math SAT District and State Comparison
600
400
200
0
Score
571
552
550
552
512
550
528
557
557
576
541
553
2017
2018
2019
2020
2021
2022
Year
Mohawk Trail
Massachusetts

Advanced Coursework Completion (percentage) vs. Year



Percentage of 11-12th Graders Completing Advanced Coursework



MTRS “Advanced Coursework” Offerings

AP English Language and Composition

AP English Literature and Composition

AP Calculus AB and BC

Calculus

Precalculus

Probability and Statistics

AP Computer Science Principles

AP Biology

AP Chemistry

AP Environmental Science

Organic Chemistry

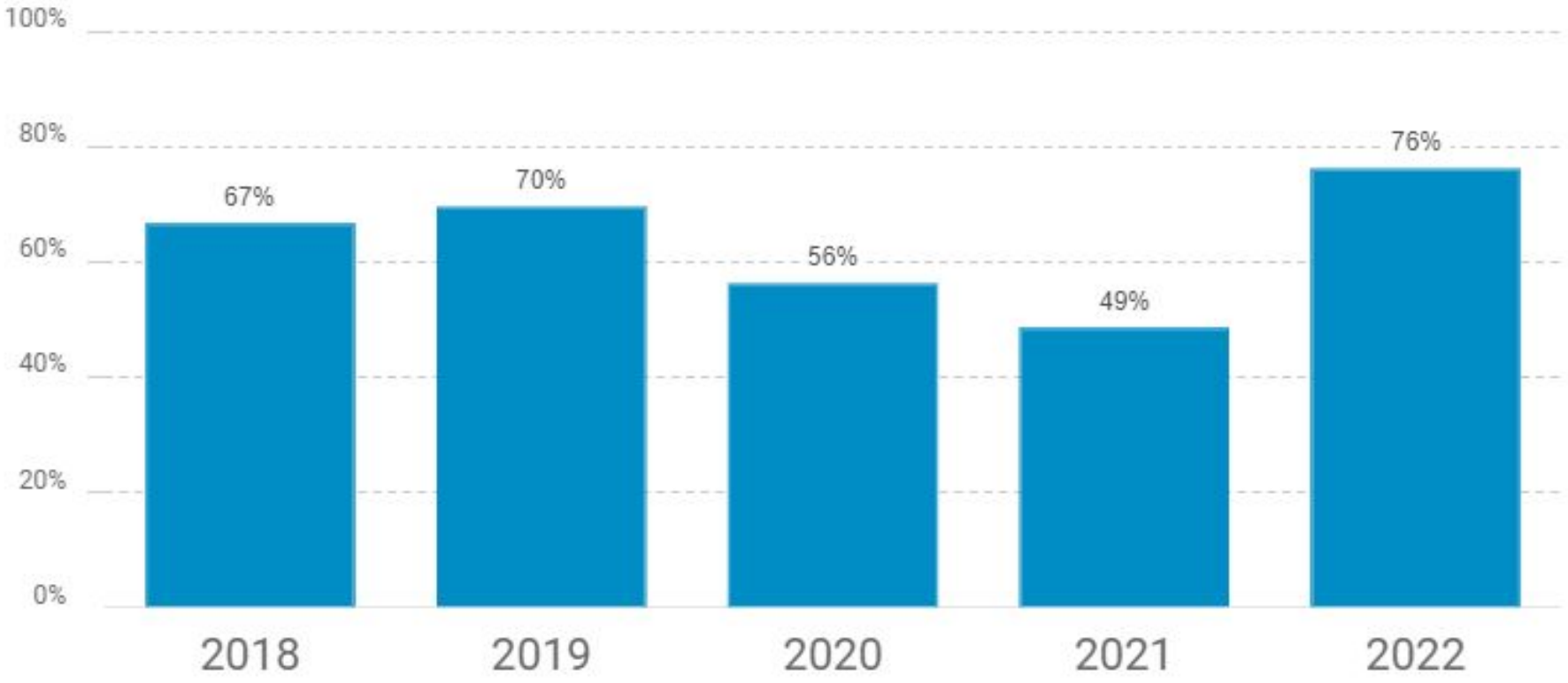
AP Physics

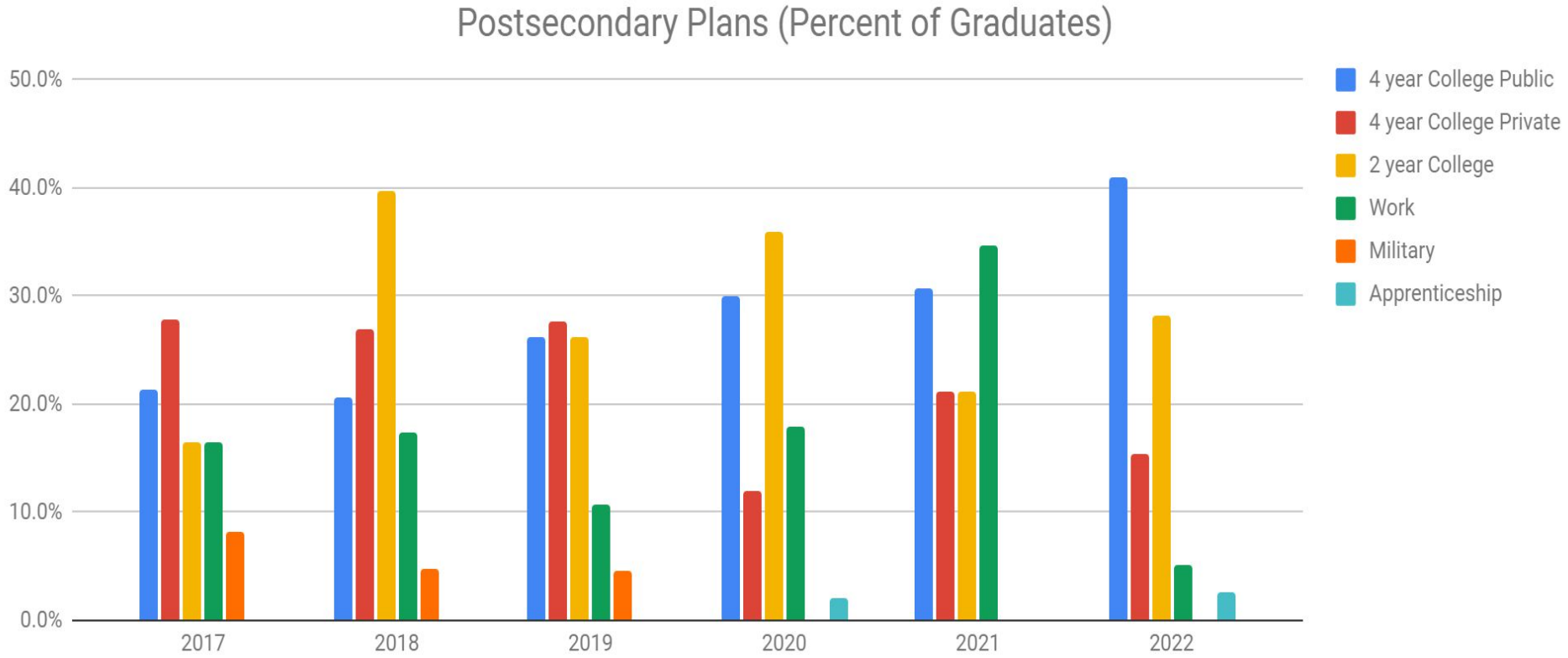
AP US History

Dual Enrollment Courses

DESE list of advanced courses

% OF TOTAL AP STUDENTS WITH SCORES 3+




Postsecondary Plans (Percent of Graduates)
50.0%
40.0%
30.0%
20.0%
10.0%
0.0%
2017
2018
2019
2020
2021
2022
4 year College Public
4 year College Private
2 year College
Work
Military
Apprenticeship

2022 MTRS College Acceptances

https://docs.google.com/spreadsheets/d/1DIzbKTdGu5GUu6JJFk3kex-QiChTxzEuhusRMFIeg_k/edit#gid=0

Scholarships

- 24 out of 37 class of 2022 graduates earned scholarships for post-secondary education
- $109,325 in local scholarships were awarded to seniors (in MTRS guidance bulletin)
  - Ranging from $600 to $13,775 in total awards per student
- 10 Students earned the John and Abigail Adams Scholarship