Unified Improvement Plan Student Achievement Results 2021-2022 School Year

September 2022

Mission: Never Stop Innovating
Vision: We envision a world of exponential possibilities where every child develops the innate knowledge, skills, creativity and character to thrive, lead and succeed in an ever-changing future.

We will **N**ever **S**top **I**nnovating by:

- Creating an environment of respect and success in an exponentially changing world.

- Nurturing the unlimited human potential.

- Leveraging the power of collaboration through continuous inquiry and experimentation.

- Optimizing resources and operations.

- Impacting the world ethically and positively

- Relentlessly reinvent and adapt.
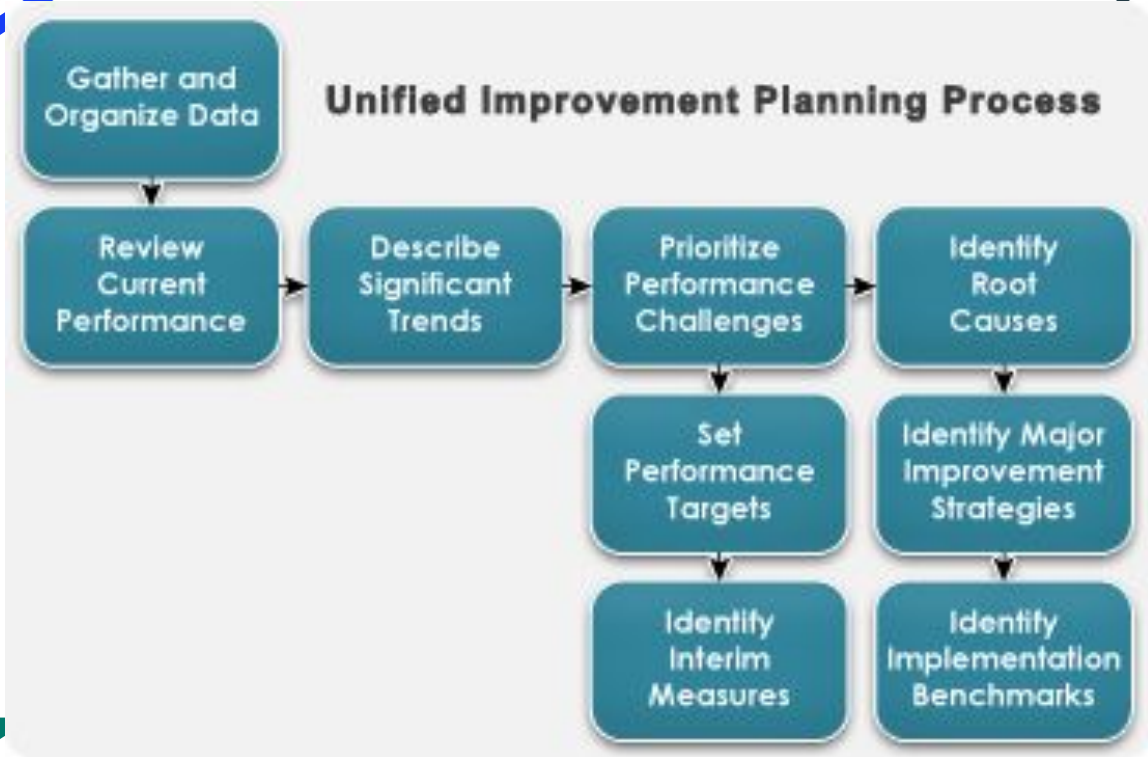
Major Improvement Strategies

Alignment to Strategic Plan

Alignment of Professional Development

Data Informed Instruction

Unified Improvement Plan

Implementation of Data Driven instruction to ensure learning for all students in all content areas

Focused time for department and grade level teams to implement the Atlas protocol to determine goals of instruction.

Analysis of multiple data points throughout the school year, **to ensure success for all students.**

A focus on student demographic data is a goal. **How do we ensure equity and access for all learners?**

Data discussions (monthly, quarterly review)

Development of assessments, aligned to 2020 Academic Standards, in order for teams to review and analyze real time data and create a plan of instruction for reteaching as needed. Teachers collaboratively score, analyze, and plan based on student data.

Parent Survey Results 2021-2022 (elementary)

My student is academically challenged through rigorous curriculum at STEM.

111 responses
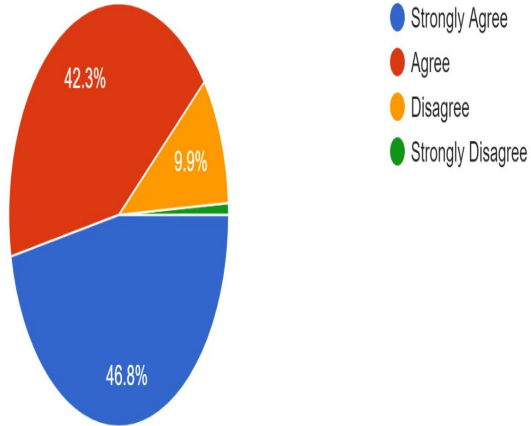
- Strongly Agree
- Agree
- Disagree
- Strongly Disagree

42.3%
9.9%
46.8%

STEM concepts such as real world application, problem based learning, and integrated technology, are effectively embedded into all courses.

111 responses

- Strongly Agree
- Agree
- Disagree
- Strongly Disagree

42.3%
48.6%
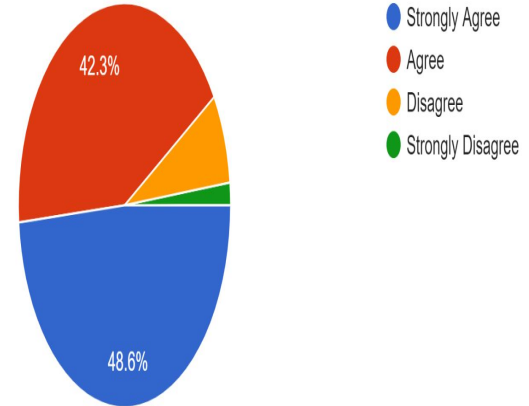
Secondary

My student is academically challenged through rigorous curriculum at STEM.

148 responses

- Strongly Agree
- Agree
- Disagree
- Strongly Disagree

50%

38.5%

STEM concepts such as real world application, problem based learning, and integrated technology are effectively embedded into all courses.
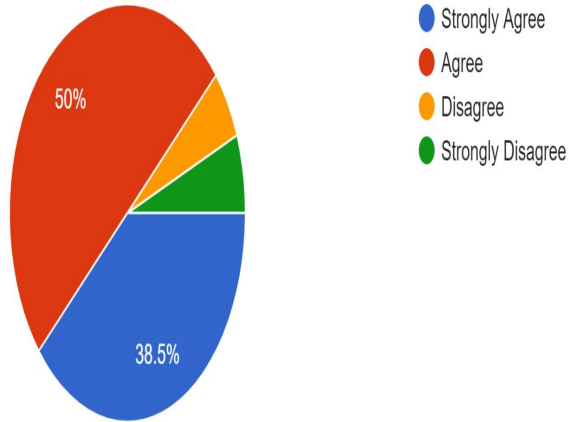
148 responses

- Strongly Agree
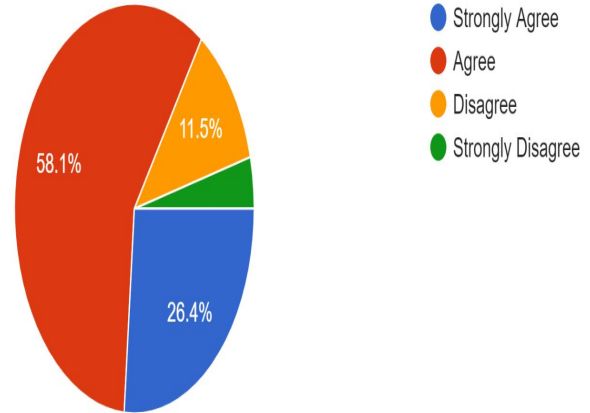- Agree
- Disagree
- Strongly Disagree

58.1%

11.5%

26.4%

2022 - 2023 School Year

Assessment	Subject(s)	Grade Level(s)
iReady	Reading, Math	K-12th
MAP (NWEA)	Science	3rd - 8th
CMAS (Colorado Measure Academic Success)	English Language Arts Math Science Social Studies (on hold - not assessed)	3rd - 8th 4th - 8th 5th, 8th, 11th
PSAT 8/9	Evidence Based Reading & Writing Math	7th, 8th
PSAT 10	Evidence Based Reading & Writing Math	10th
SAT	Evidence Based Reading & Writing Math	11th
Advanced Placement	Science, English, Math, Computer Science, World Language, Social Studies	9th - 12th
ACCESS	English Language Development	English Language Learners

iReady School Wide Results: Reading & Math 2021-22 School Year

Students Assessed/Total: **1,280/1,599**

Overall Placement

Final Diagnostic

- At Risk for Tier 3
  11% (From 14%)
- Tier 2
  14% (From 25%)
- Tier 1
  75% (From 61%)

Fall Interim

Placement By Domain

PA
PH
HFW
VOC
LIT
INFO

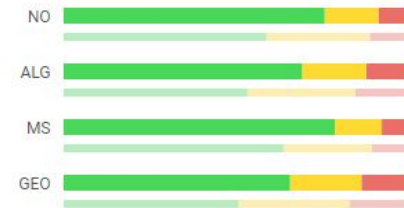Students Assessed/Total: **1,374/1,601**

Overall Placement

Final Diagnostic

- At Risk for Tier 3
  14% (From 17%)
- Tier 2
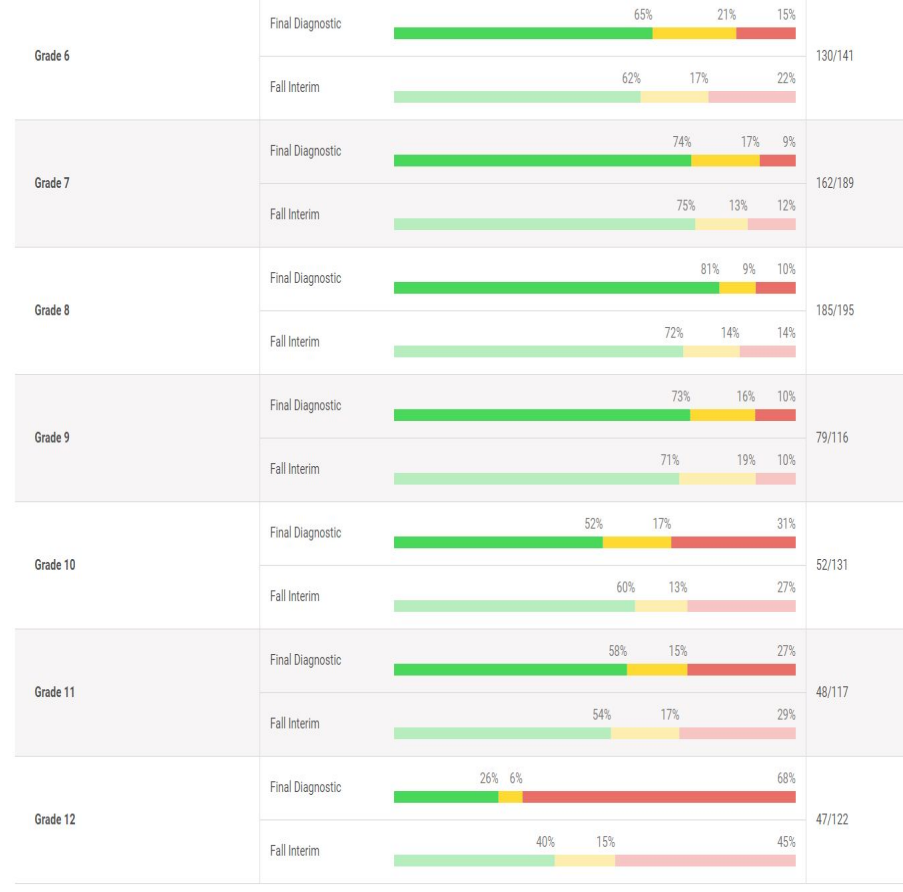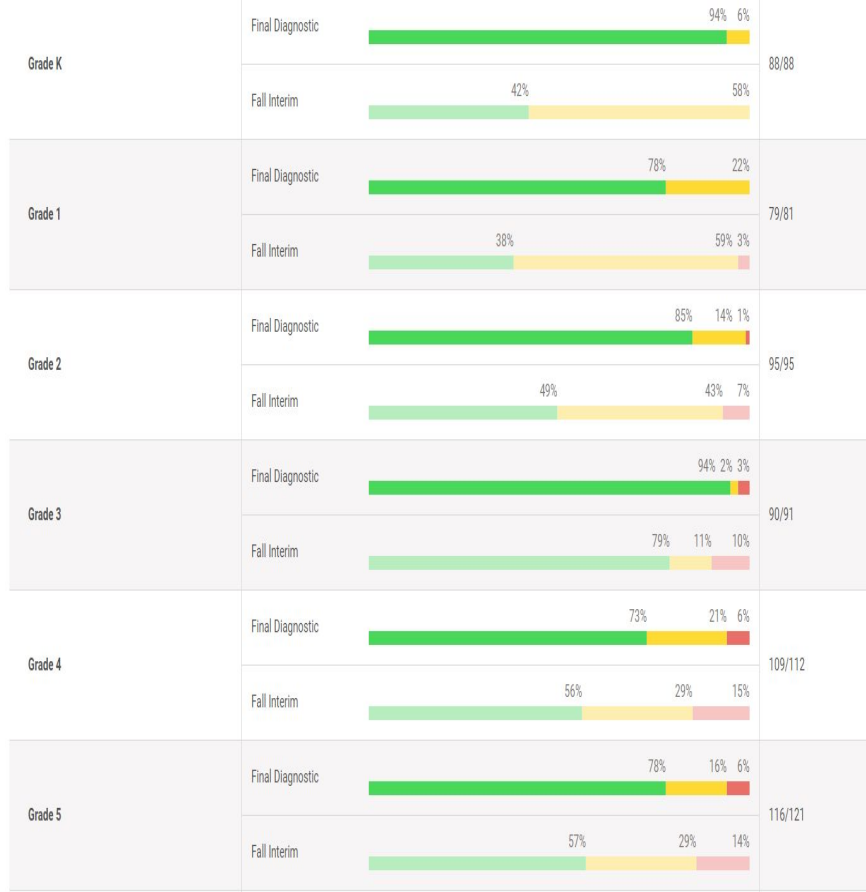 **20%** (From 34%)
- Tier 1
  67% (From 49%)

Fall Interim

Placement By Domain

NO
ALG
MS
GEO

ⓘ **The Mapping Between 5-Level and 3-Level Placements**

iREADY Reading: Fall 2021-Spring 2022

Grade K
- Final Diagnostic: 94% | 6%
- Fall Interim: 42% | 58%
- 88/88

Grade 1
- Final Diagnostic: 78% | 22%
- Fall Interim: 38% | 59% | 3%
- 79/81

Grade 2
- Final Diagnostic: 85% | 14% | 1%
- Fall Interim: 49% | 43% | 7%
- 95/95

Grade 3
- Final Diagnostic: 94% | 2% | 3%
- Fall Interim: 79% | 11% | 10%
- 90/91

Grade 4
- Final Diagnostic: 73% | 21% | 6%
- Fall Interim: 56% | 29% | 15%
- 109/112

Grade 5
- Final Diagnostic: 78% | 16% | 6%
- Fall Interim: 57% | 29% | 14%
- 116/121

Grade 6
- Final Diagnostic: 65% | 21% | 15%
- Fall Interim: 62% | 17% | 22%
- 130/141

Grade 7
- Final Diagnostic: 74% | 17% | 9%
- Fall Interim: 75% | 13% | 12%
- 162/189

Grade 8
- Final Diagnostic: 81% | 9% | 10%
- Fall Interim: 72% | 14% | 14%
- 185/195

Grade 9
- Final Diagnostic: 73% | 16% | 10%
- Fall Interim: 71% | 19% | 10%
- 79/116

Grade 10
- Final Diagnostic: 52% | 17% | 31%
- Fall Interim: 60% | 13% | 27%
- 52/131

Grade 11
- Final Diagnostic: 58% | 15% | 27%
- Fall Interim: 54% | 17% | 29%
- 48/117

Grade 12
- Final Diagnostic: 26% | 6% | 68%
- Fall Interim: 40% | 15% | 45%
- 47/122

iREADY Math: Fall 2021 - Spring 2022

Grade K

| Final Diagnostic | 91% | 9% | 88/88 |
| Fall Interim | 33% | 67% | |

Grade 1

| Final Diagnostic | 75% | 25% | 79/81 |
| Fall Interim | 30% | 65% | 5% | |

Grade 2

| Final Diagnostic | 67% | 29% | 3% | 95/95 |
| Fall Interim | 46% | 43% | 11% | |

Grade 3

| Final Diagnostic | 79% | 19% | 2% | 90/91 |
| Fall Interim | 47% | 48% | 6% | |

Grade 4

| Final Diagnostic | 62% | 33% | 5% | 109/112 |
| Fall Interim | 41% | 43% | 16% | |

Grade 5

| Final Diagnostic | 68% | 26% | 7% | 117/121 |
| Fall Interim | 53% | 41% | 6% | |

Grade 6

| Most Recent | 65% | 21% | 15% | 130/141 |
| Fall Interim | 62% | 17% | 22% | |

Grade 7

| Most Recent | 74% | 17% | 9% | 162/189 |
| Fall Interim | 75% | 13% | 12% | |

Grade 8

| Most Recent | 81% | 9% | 10% | 185/195 |
| Fall Interim | 72% | 14% | 14% | |

Grade 9

| Most Recent | 73% | 16% | 10% | 79/116 |
| Fall Interim | 71% | 19% | 10% | |

Grade 10

| Most Recent | 52% | 17% | 31% | 52/131 |
| Fall Interim | 60% | 13% | 27% | |

Grade 11

| Most Recent | 58% | 15% | 27% | 48/117 |
| Fall Interim | 54% | 17% | 29% | |

Grade 12

| Most Recent | 26% | 6% | 68% | 47/122 |
| Fall Interim | 40% | 15% | 45% | |

CMAS: ELA Spring 2022

ELA 2022	3rd	4th	5th	6th	7th	8th
State	40.7	44.1	45.4	43	41.8	43.9
District	57.4	59.2	60.7	63.2	58.9	58.7
STEM	60.5	55	59.8	56.5	72.3	71.6

CMAS English Language Arts Spring 2022
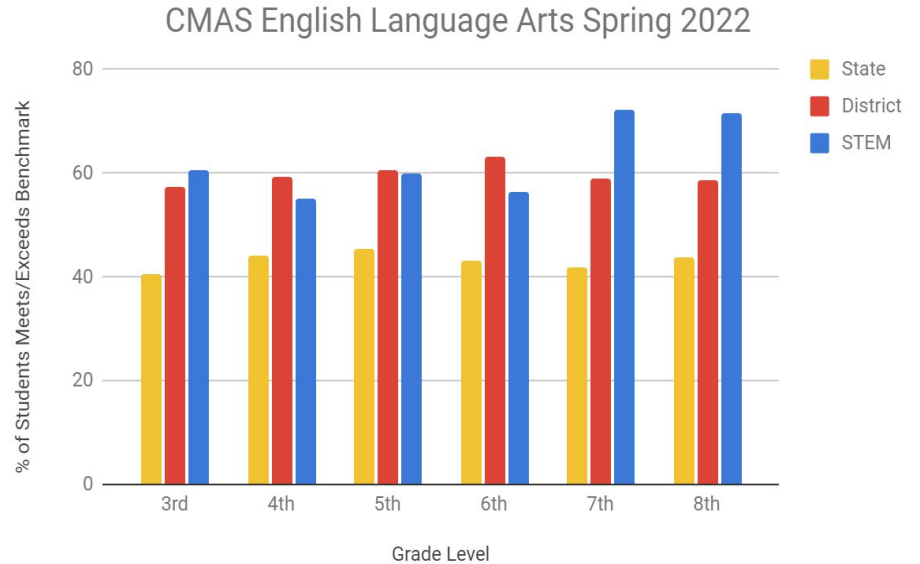
CMAS English Language Arts 2019-2022
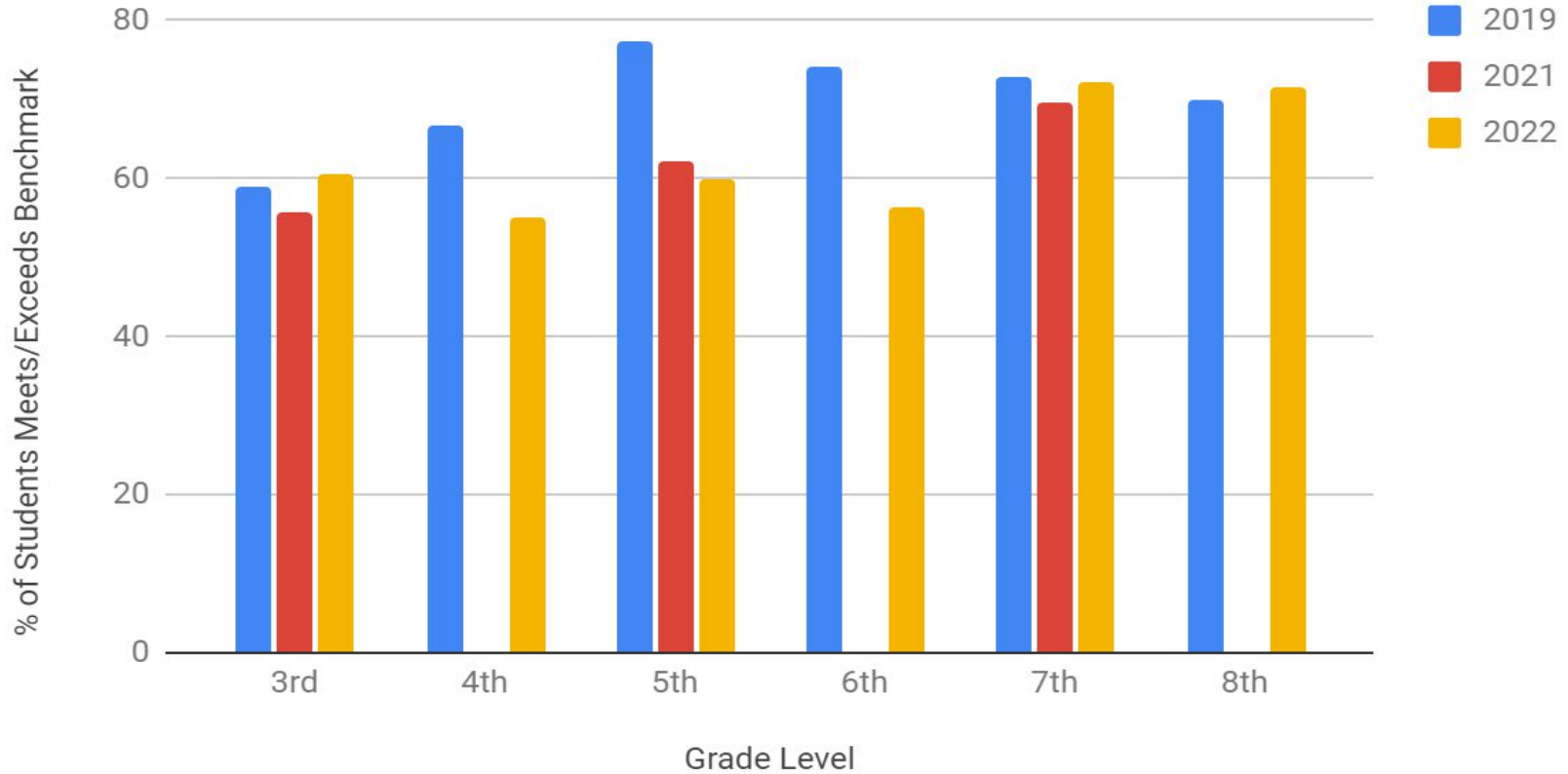
CMAS: Math

Math 2022	3rd	4th	5th	6th	7th	8th
State	39.4	30.7	34.9	26.3	25	32.4
District	59.6	47.6	51.4	43.8	43.1	48
STEM	69.8	41	50	41.5	57.1	60.5

CMAS Math Spring 2022
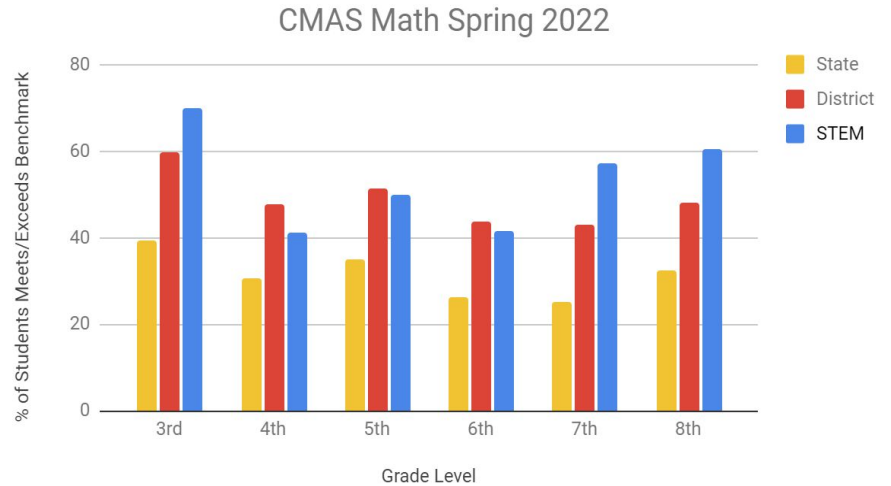
CMAS Math 2019-2022
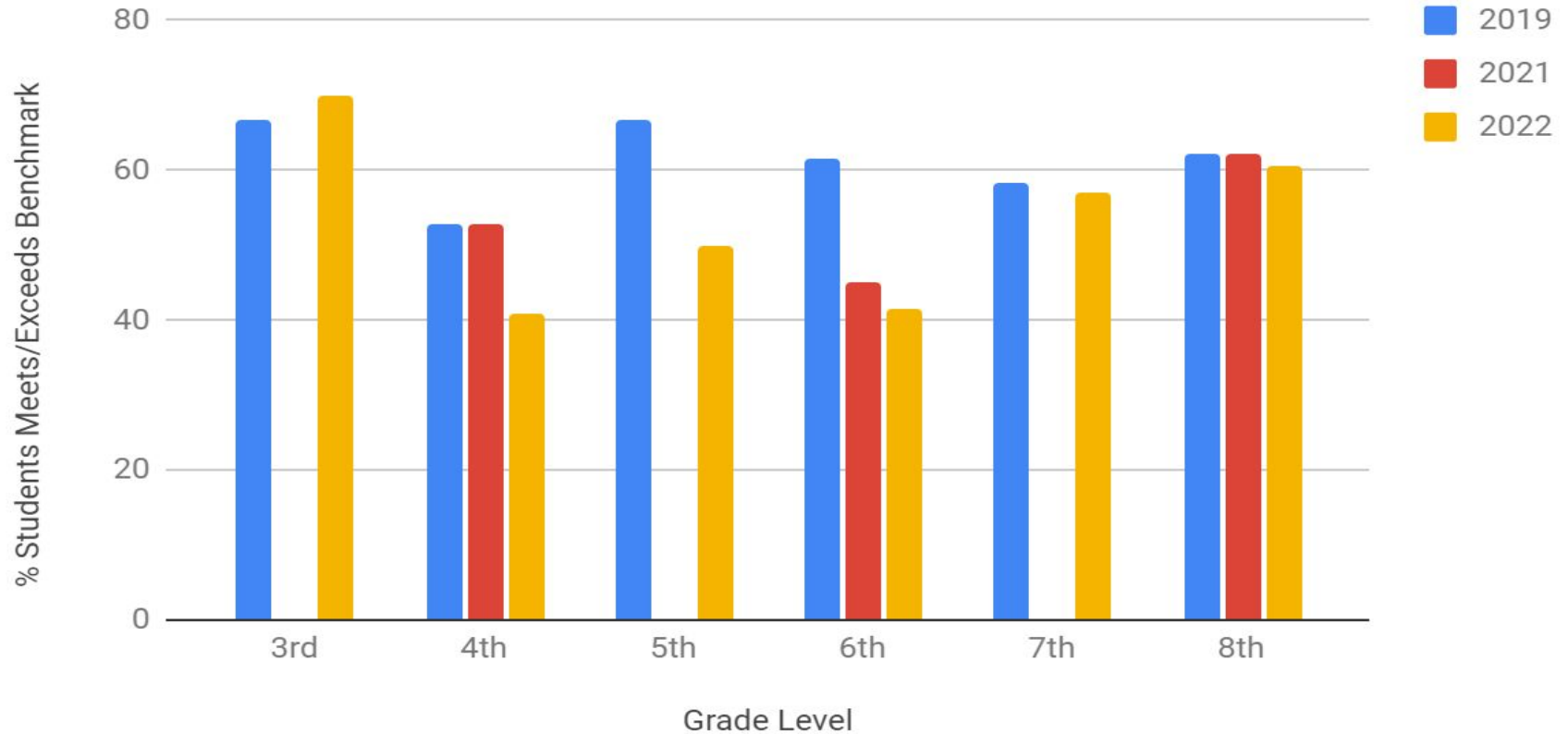
CMAS: Social Studies 2018

	4th	7th
State	609	585
District	646	617
STEM	655	650

CMAS: Social Studies
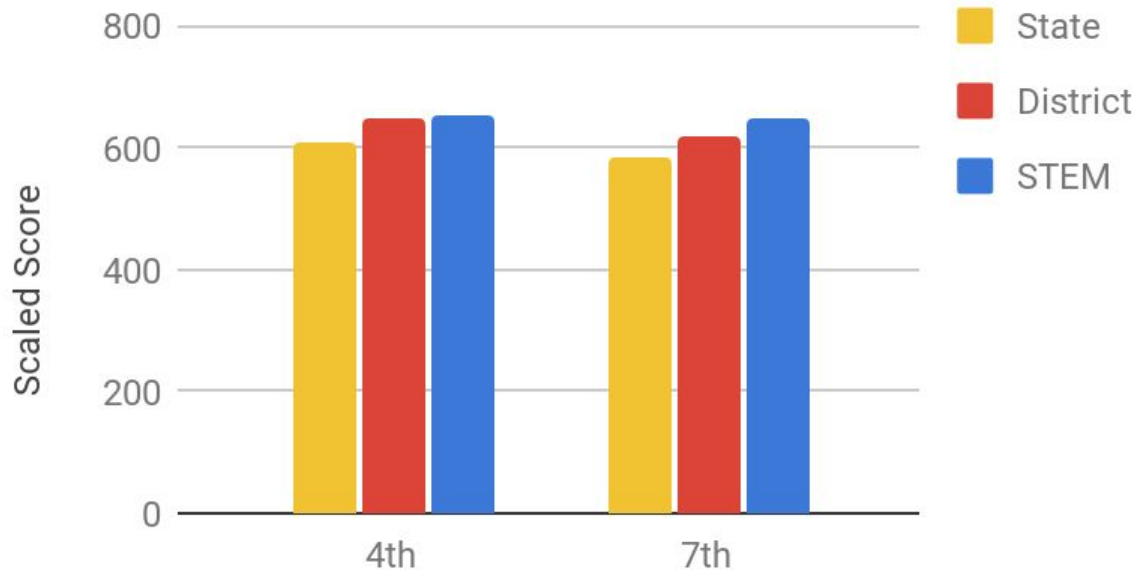
CMAS: Science
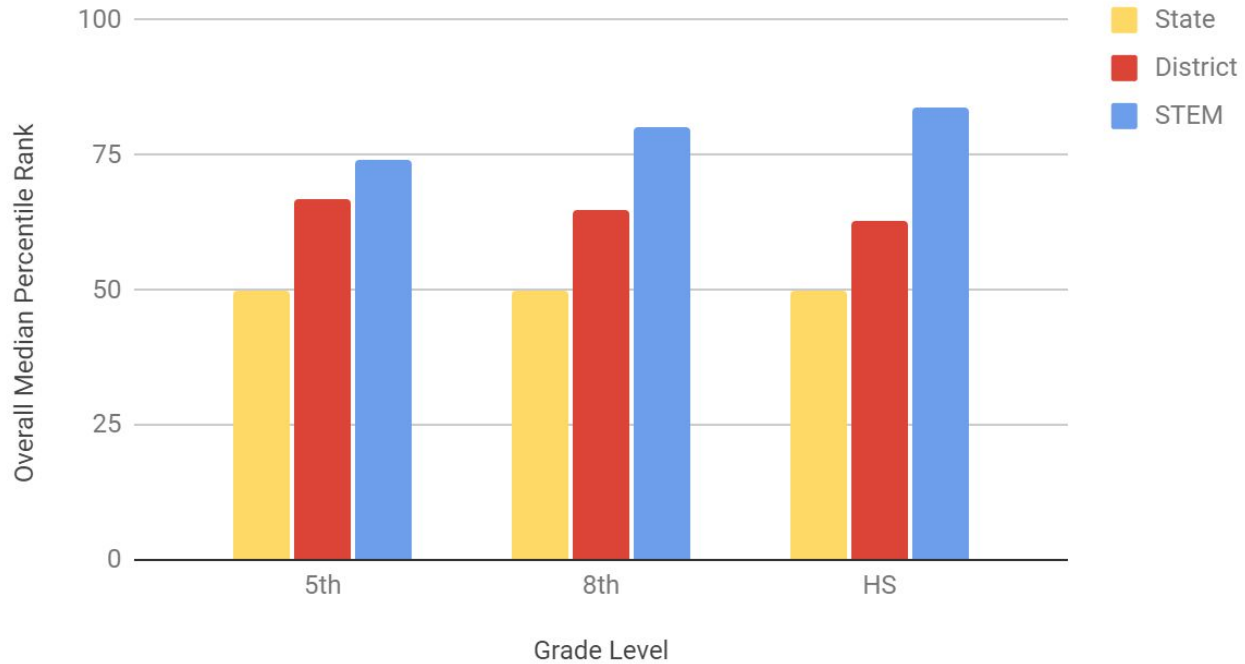
PSAT: 8/9 (106 students)

Evidence-Based Reading and Writing

Mean Score **552**

		Need to Strengthen Skills		Approaching Benchmark		Meets Or Exceeds Benchmark	
School	3%		3 Test Taker(s)	1%	1 Test Taker(s)	96%	102 Test Taker(s)
District	15%			6%		79%	
State	28%			8%		64%	
Total Group	32%			8%		60%	

Math

Mean Score **537**

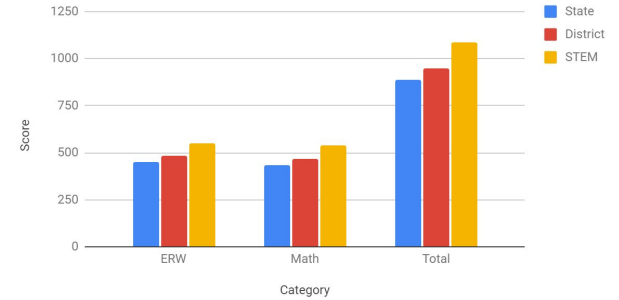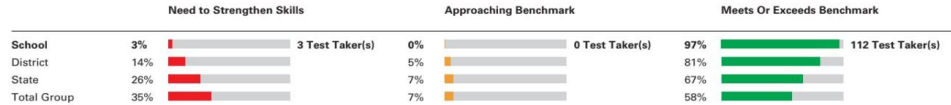|		Need to Strengthen Skills		Approaching Benchmark		Meets Or Exceeds Benchmark	
School	13%		14 Test Taker(s)	6%	6 Test Taker(s)	81%	86 Test Taker(s)
District	33%			11%		56%	
State	49%			10%		41%	
Total Group	53%			9%		38%	
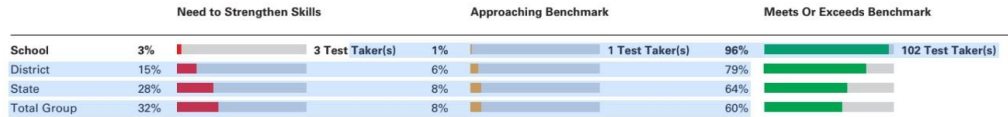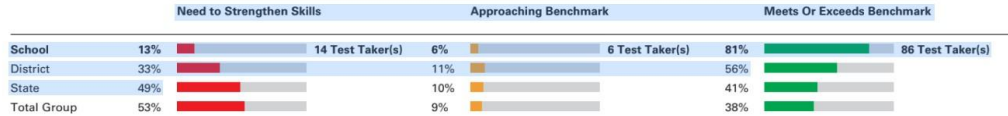
PSAT 8/9 (106 students)
2021-2022

During the 2021-2022 school year, the Total Mean Score for STEM students was **1089**, as compared to the district (949), and the state (885). The PSAT 8/9 Mean Score for the Evidence-Based Reading and Writing exam for STEM students was 552, the district (481), and the state (451)). The Mean Score for Math for STEM students was 537, the district (467), and the state (434).

In 2021-2022, **96% of STEM students met the ERW benchmark,** which is 17% higher than the district and 32% higher than the state. **81% of STEM School students met the Math benchmarks**, which is 25% higher than the district and 40% higher than the state.
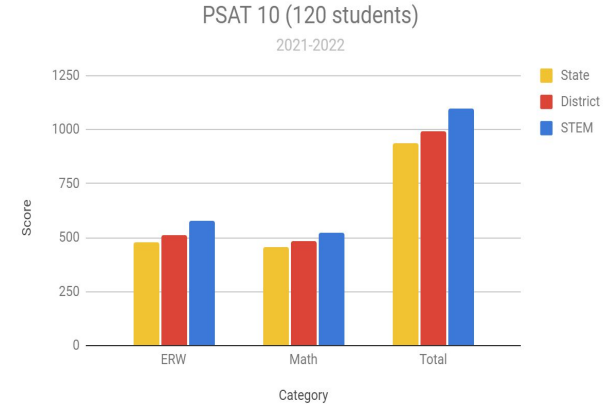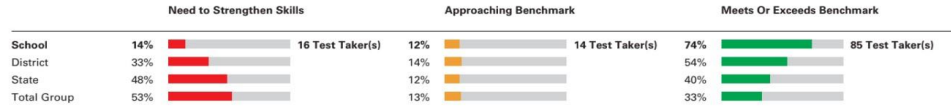
PSAT 10 (120 students)

Evidence-Based Reading and Writing

Mean Score **577**

	Need to Strengthen Skills		Approaching Benchmark		Meets Or Exceeds Benchmark	
School	3%	3 Test Taker(s)	0%	0 Test Taker(s)	97%	112 Test Taker(s)
District	14%		5%		81%	
State	26%		7%		67%	
Total Group	35%		7%		58%	

Math

Mean Score **524**

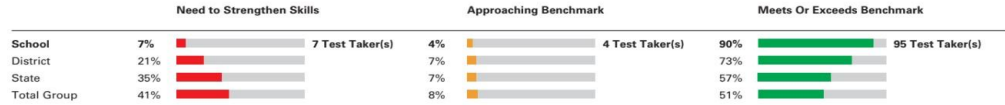|	Need to Strengthen Skills		Approaching Benchmark		Meets Or Exceeds Benchmark	
School	14%	16 Test Taker(s)	12%	14 Test Taker(s)	74%	85 Test Taker(s)
District	33%		14%		54%	
State	48%		12%		40%	
Total Group	53%		13%		33%	

PSAT 10 (120 students)
2021-2022

During the Spring 2022, the Total Mean Score for STEM students on the PSAT 10 was **1096**, as compared to the district (995), and the state (935). The PSAT 10 Mean Score for the Evidence-Based Reading and Writing exam for STEM students was 575, the district (512), and the state (480). The Mean Score for Math for STEM students was 521, the district (483), and the state (455).

In 2021-22, **97% of 10th graders met the ERW benchmark,** which is 16% higher than the district and 30% higher than the state. **74% of STEM School 10th graders met the Math benchmarks**, which is 20% higher than the district and 34% higher than the state.
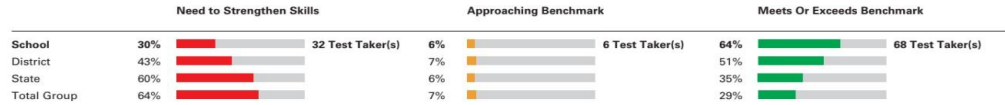
SAT (134 students)

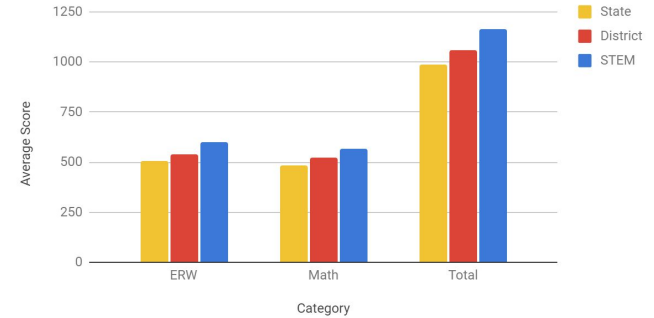**Evidence-Based Reading and Writing**   Mean Score **594**

	Need to Strengthen Skills		Approaching Benchmark		Meets Or Exceeds Benchmark	
School	7%	7 Test Taker(s)	4%	4 Test Taker(s)	90%	95 Test Taker(s)
District	21%		7%		73%	
State	35%		7%		57%	
Total Group	41%		8%		51%	

Math   Mean Score **563**

	Need to Strengthen Skills		Approaching Benchmark		Meets Or Exceeds Benchmark	
School	30%	32 Test Taker(s)	6%	6 Test Taker(s)	64%	68 Test Taker(s)
District	43%		7%		51%	
State	60%		6%		35%	
Total Group	64%		7%		29%	

SAT(134 Students)
2021-2022

In 2022, **90% of STEM students met the ERW benchmark** which is 17% higher than the district and 33% higher than the state. **64% of STEM students met the Math benchmark**, which is 13% higher than the district and 29% higher than the state.

In 2022, STEM students scored an average total score on the SAT of **1165**! The DCSD average score was 1059 and the state average was 986. **STEM Students are ranked #12 in the State!**

The average Math SAT score was 567 compared to the district average of 521 and state average of 483.

The average Evidence Based Reading Writing score for STEM students was 598 compared to the district average of 537 and state average of 503.
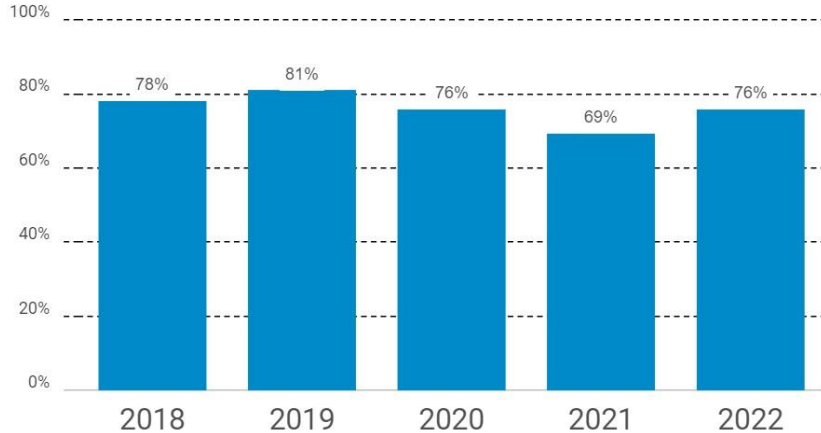
Overall PSAT/SAT Results
(State Comparison: 522 High Schools)

	Evidence Based Reading/Writing	Math	Total Score
PSAT 9	#3	#8	#5
PSAT 10	#9	#13	#9
SAT	#11	#14	#11

Advanced Placement

	2018	2019	2020	2021	2022
Total AP Students	187	174	223	254	227
Number of Exams	332	283	404	478	412
AP Students with Scores 3+	146	141	169	176	172
% of Total AP Students with Scores 3+	78.07	81.03	75.78	69.29	75.77

% OF TOTAL AP STUDENTS WITH SCORES 3+

Average AP Scores 2022

Average AP Scores 2021-2022