

AP & SAT Data Analysis: Hillsboro-Deering High School

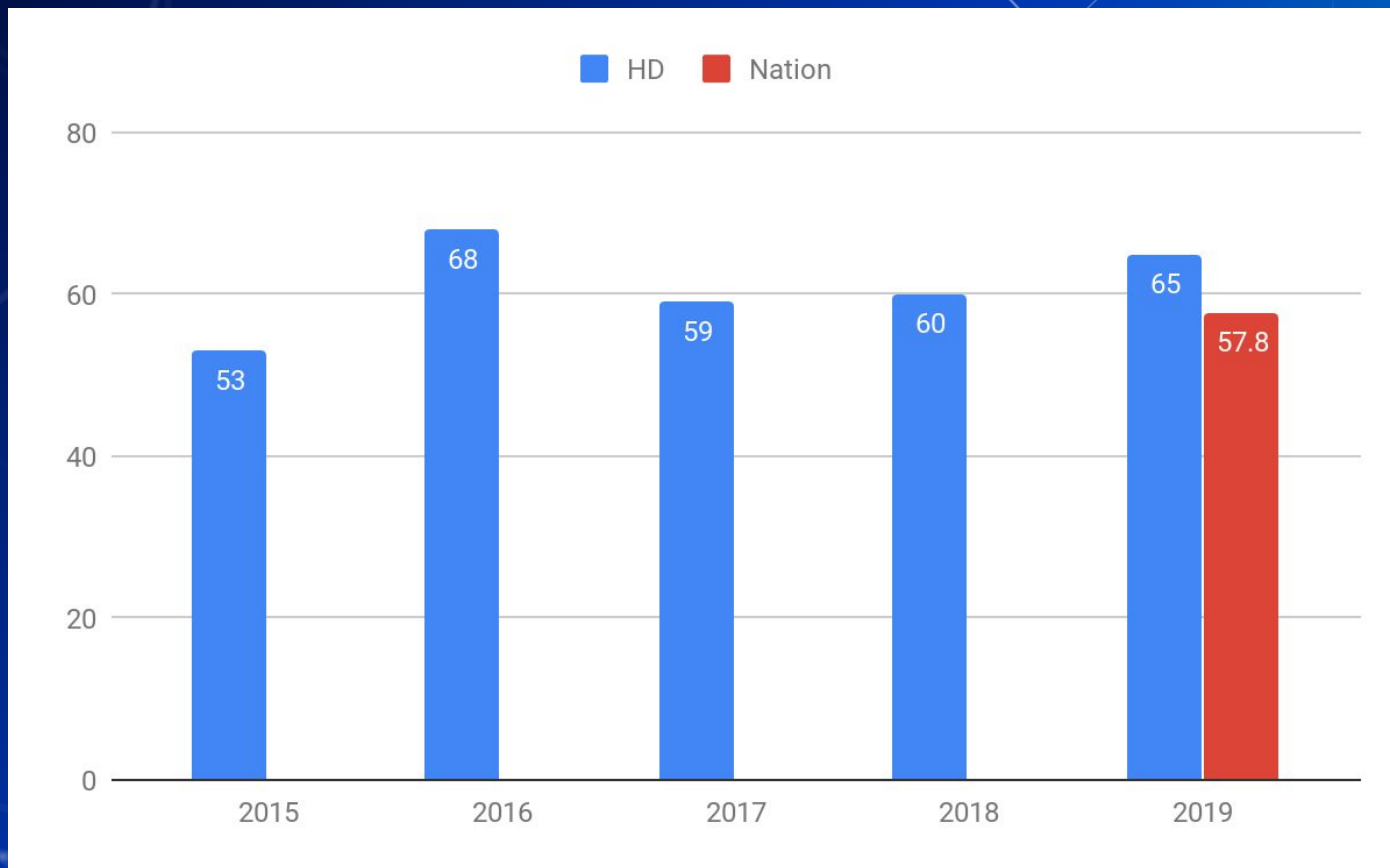
Jessamyn Irwin & Jim O'Rourke

AP Testers: School Summary 2015-2019

SCHOOL SUMMARY

	2015	2016	2017	2018	2019
Total AP Students	49	41	46	42	43
Number of Exams	58	55	64	54	53
AP Students with Scores 3+	26	28	27	25	28
% of Total AP Students with Scores 3+	53.1	68.3	58.7	59.5	65.1

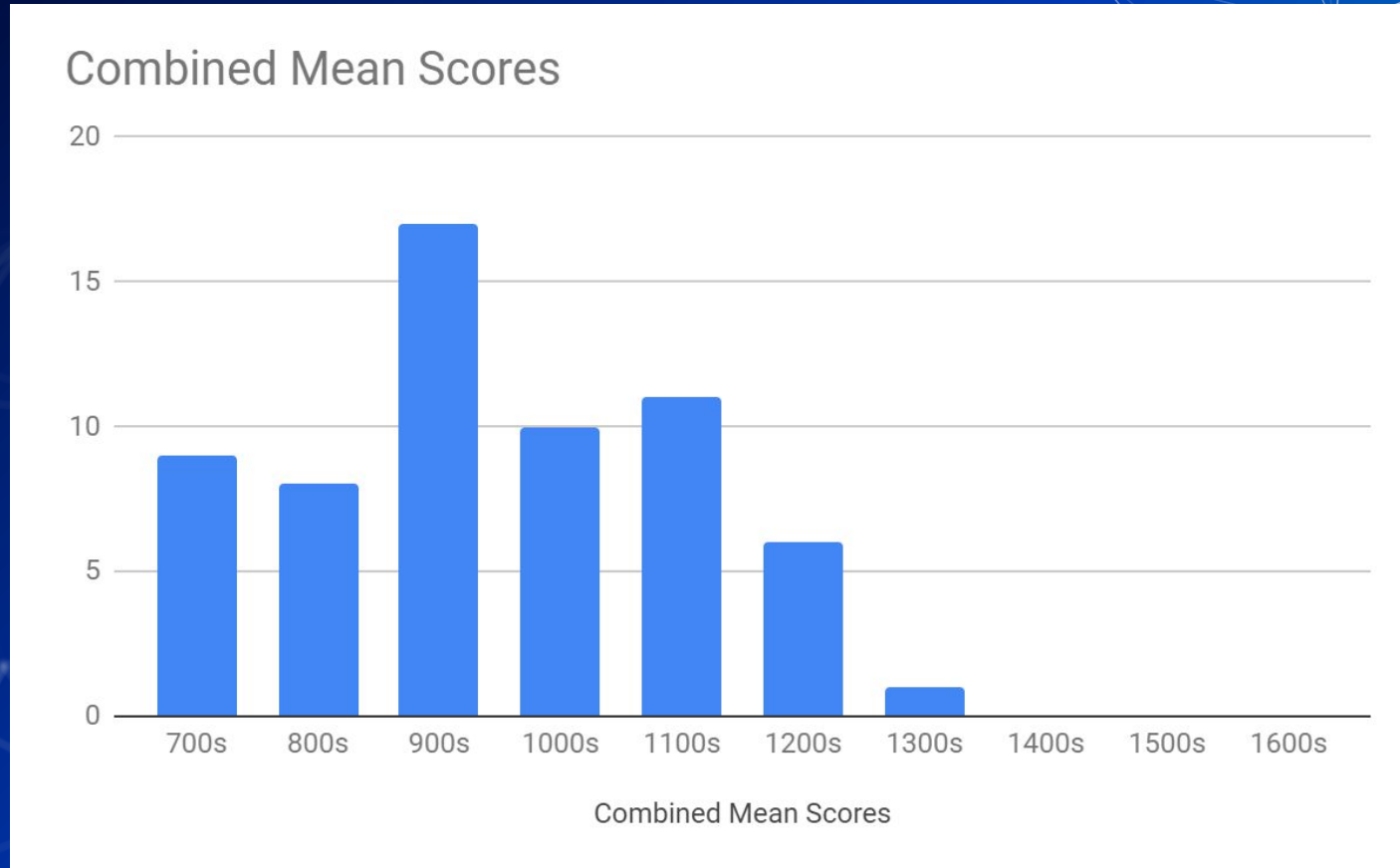
AP Testers: Percent Scoring 3 or higher



SAT College and Career Readiness Benchmarks Defined

- Students are considered college- and career-ready when their SAT section scores meet both the Math and the Evidence-Based Reading and Writing benchmarks. It is important to note that college readiness is a continuum — students scoring below the SAT benchmarks can still be successful in college, especially with additional preparation and perseverance.
- Students with an SAT Math section score that meets or exceeds the benchmark have a 75 percent chance of earning at least a C in first-semester, credit-bearing college courses in algebra, statistics, pre-calculus, or calculus.
- Students with an SAT Evidence-Based Reading and Writing (ERW) section score that meets or exceeds the benchmark have a 75 percent chance of earning at least a C in first-semester, credit-bearing college courses in history, literature, social sciences, or writing classes.

2020 Combined Mean Scores



Averages and Demographics

Evidence-Based Reading and Writing (ERW) 480

- High Score = 720
- Low Score = 350
- Female 65% Met Benchmark
- Male 69% Met Benchmark
- Female 518
- Male 505

Mathematics (M) 530

- High Score = 660
- Low Score = 330
- Female 27% Met Benchmark
- Male 33% Met Benchmark
- Female 465
- Male 474

Highest Level of Parental Education**Test Takers****Mean Score****Met Benchmarks**

	Number	Percent	Total	ERW	Math	Both	ERW	Math	None
No High School Diploma	2	4%							
High School Diploma	18	33%	1014	528	487	50%	61%	50%	39%
Associate Degree	9	17%							
Bachelor's Degree	17	31%	1028	533	495	35%	88%	35%	12%
Graduate Degree	7	13%							
No Response	1	2%							

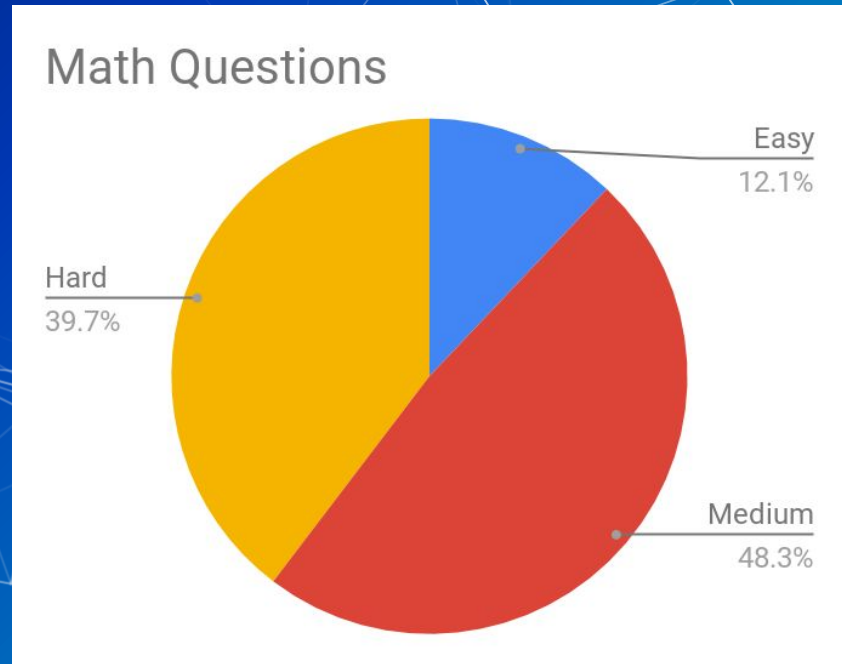
Overall Scores

How did we do?

	2019 Mean Total	2020 Mean Total	2019 Mean ERW	2020 Mean ERW	2019 Mean Math	2020 Mean Math
HDHS	976	980	498	510	477	470
Benchmark	1010		480		530	
State	1030	1024	519	516	511	508
Nation	976	968	494	489	482	479

Math

- 58 Questions:
 - Heart of Algebra
 - Problem Solving and Data Analysis
 - Passport to Advanced Math
 - Math use in Science (overlap with above)
 - Math use in Social Studies (overlap with above)
- Benchmark 530



2020 Heart of Algebra Question Analysis

Well Below State

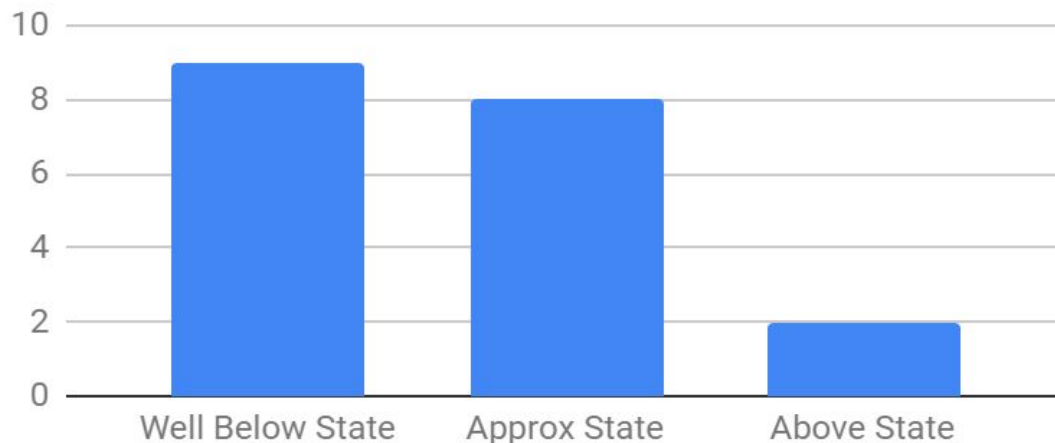
9

Approx State

8

Above State

2

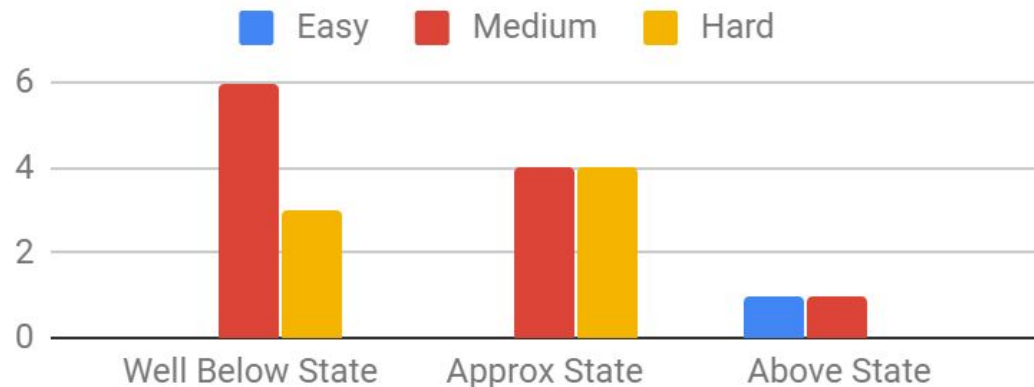


Approx. State = within 5% of
state percentage correct

Heart of Algebra Analysis

2020 Heart of Algebra Question by Type	Easy	Med.	Hard
Well Below State	0	6	3
Approx State	0	4	4
Above State	1	1	0

Easy, Medium and Hard



Heart of Algebra by Type

Approx. State = within 5% of state percentage correct

2020 Problem Solving and Data Question Analysis

Well Below State

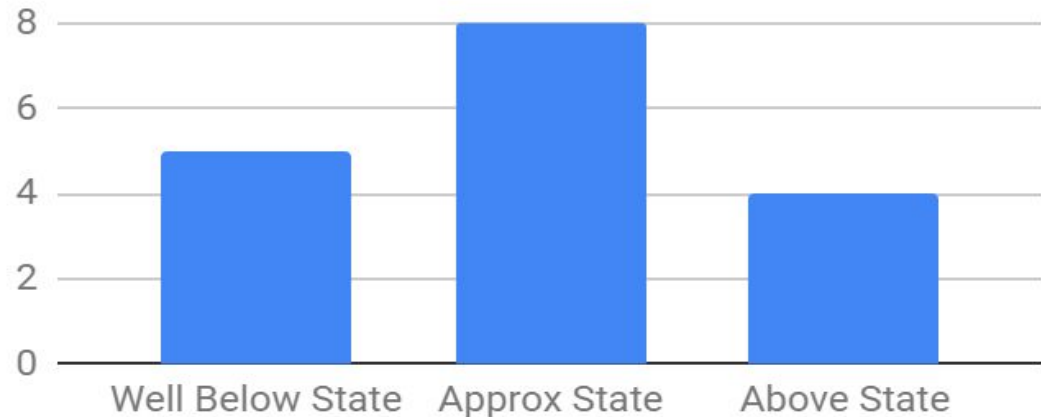
5

Approx State

8

Above State

4

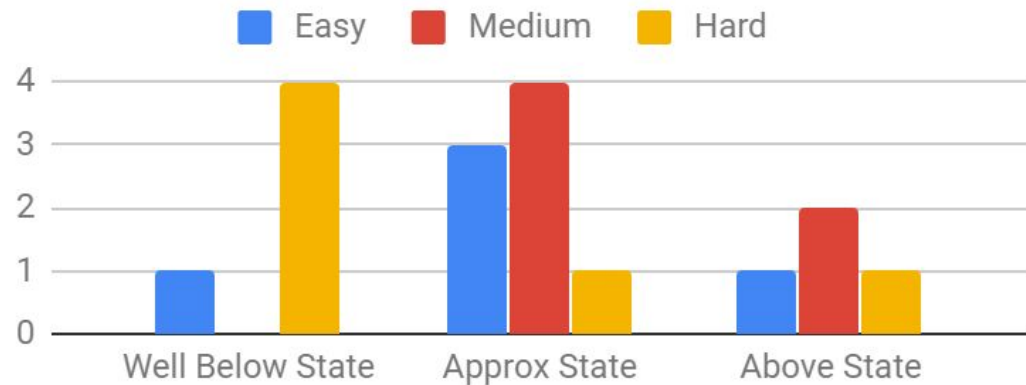


Approx. State = within 5% of
state percentage correct

Problem Solving and Data Analysis

2020 Prob Solv & Data Question by Type	Easy	Med.	Hard
Well Below State	1	0	4
Approx State	3	4	1
Above State	1	2	1

Easy, Medium and Hard



Approx. State = within 5% of state percentage correct

Problem Solving & Data Analysis by Type

2020 Passport to Advanced Math Question Analysis

Well Below State

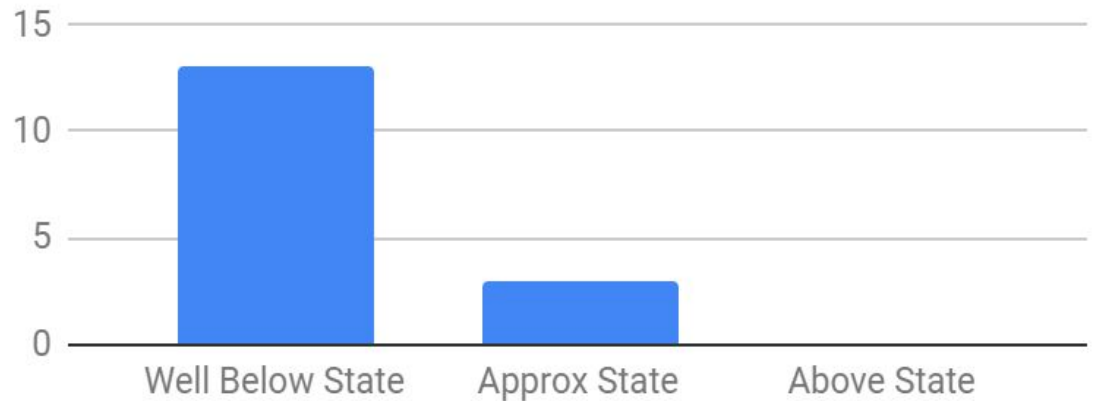
13

Approx State

3

Above State

0

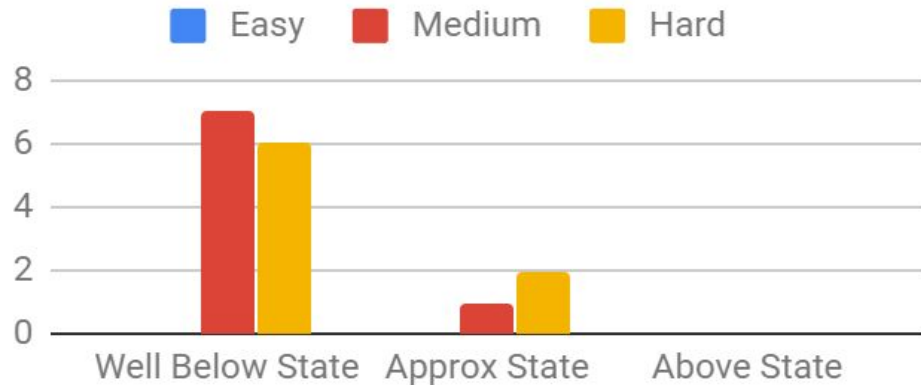


Approx. State = within 5% of
state percentage correct

Passport to Advanced Math

2020 Passport to Advanced Math Question by Type	Easy	Med.	Hard
Well Below State	0	7	6
Approx State	0	1	2
Above State	0	0	0

Easy, Medium and Hard

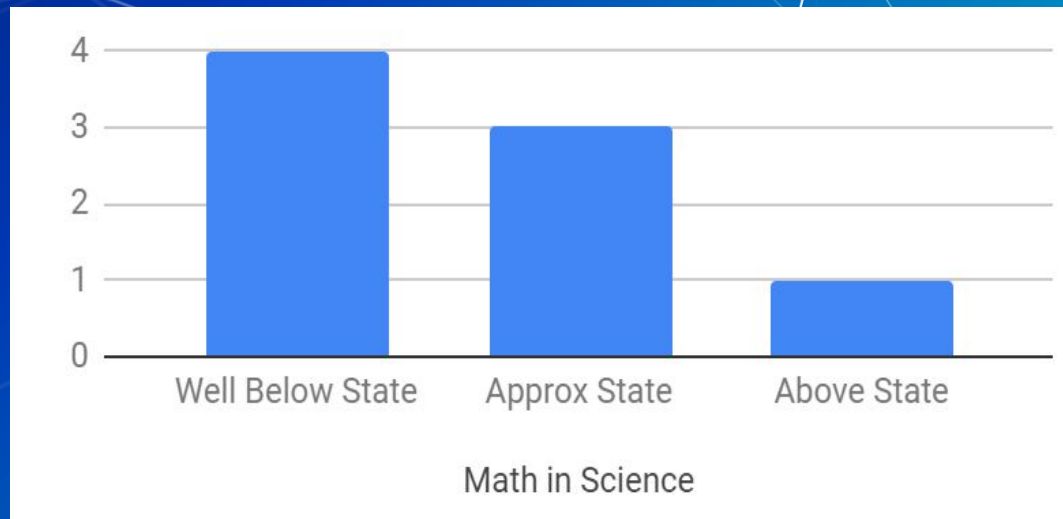


Approx. State = within 5% of state percentage correct

Passport to Advanced Math by Type

2020 Math Questions in Science Contexts

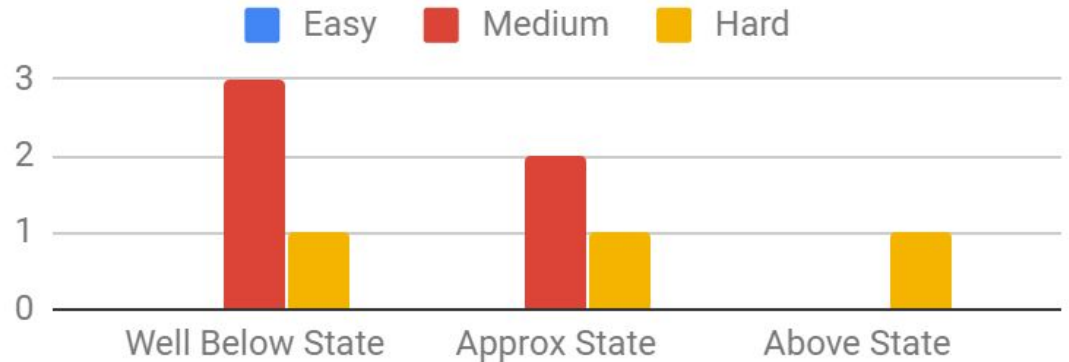
Well Below State	4
Approx State	3
Above State	1



Approx. State = within 5% of state percentage correct

2020 Math Questions in Science Context by Type	Easy	Med.	Hard
Well Below State	0	3	1
Approx State	0	2	1
Above State	0	0	1

Easy, Medium and Hard



Math in Science by Type

Approx. State = within 5% of state percentage correct

2020 Math Questions in Social Studies Context

Well Below State

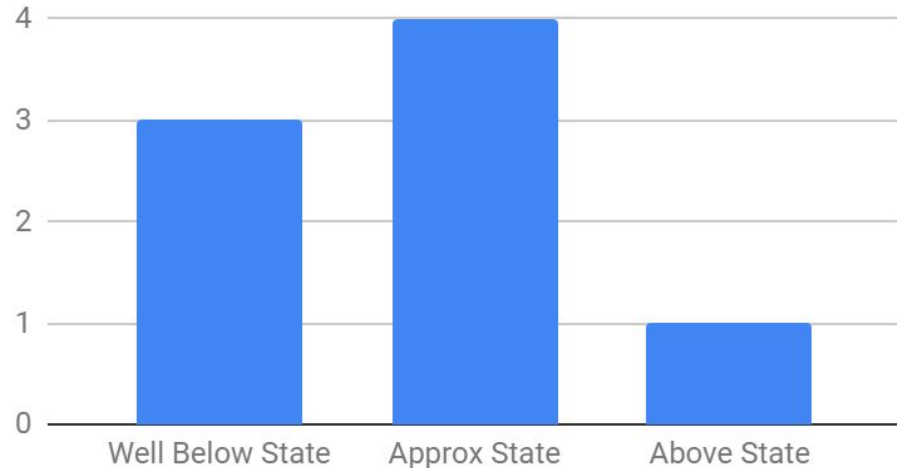
3

Approx State

4

Above State

1

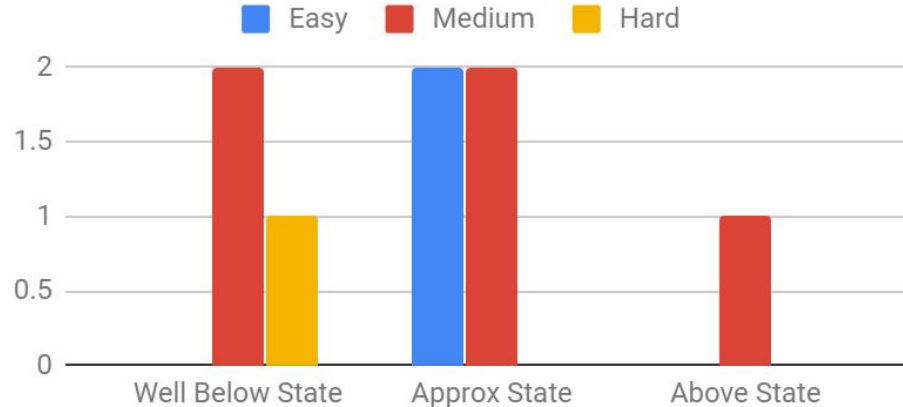


Approx. State = within 5% of
state percentage correct

Math in Social Studies

2020 Math Questions in Social Studies Context by Type	Easy	Med.	Hard
Well Below State	0	2	1
Approx State	2	2	0
Above State	0	1	0

Easy, Medium and Hard

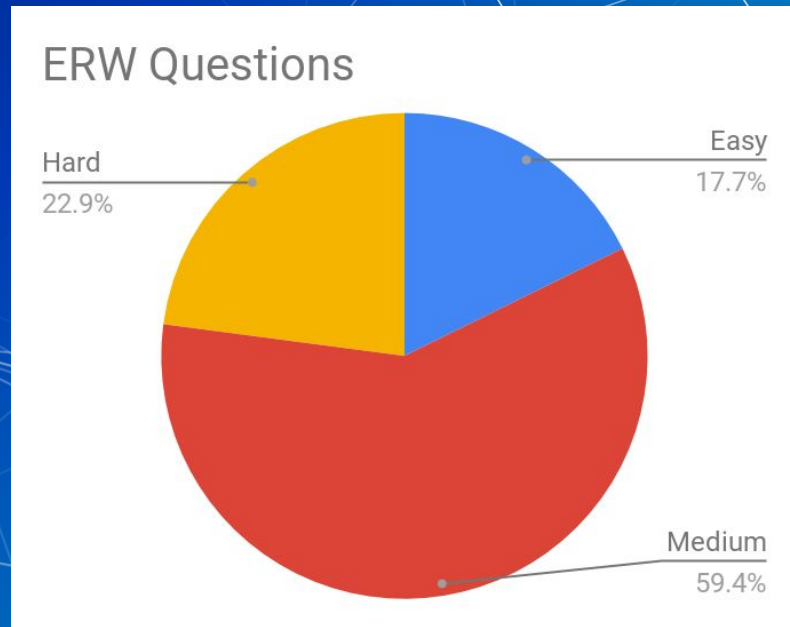


Approx. State = within 5% of state percentage correct

Math in Social Studies by Type

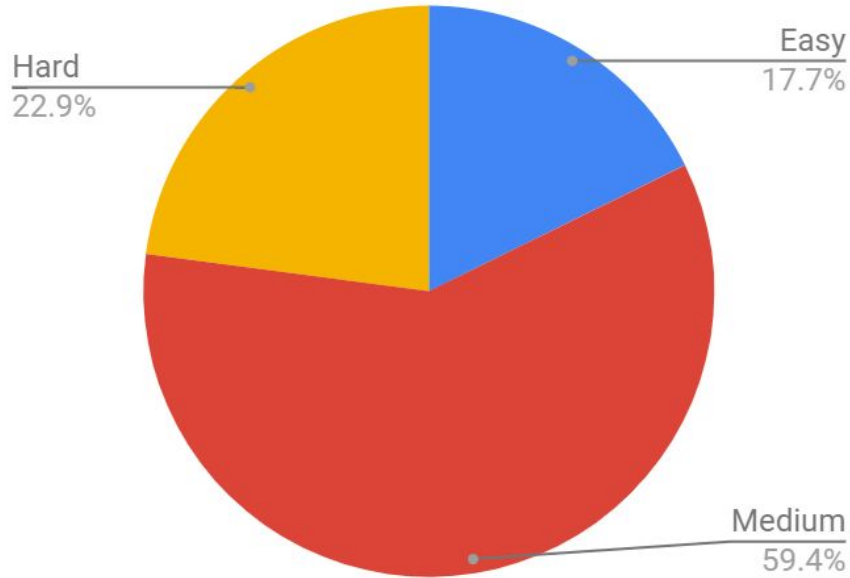
Evidence-Based Reading and Writing

- 96 Questions:
 - General Reading Analysis
 - Conventions of English Usage
 - Science Reading Analysis (overlap with above)
 - Social-Studies Reading Analysis (overlap with above)
- Benchmark 480

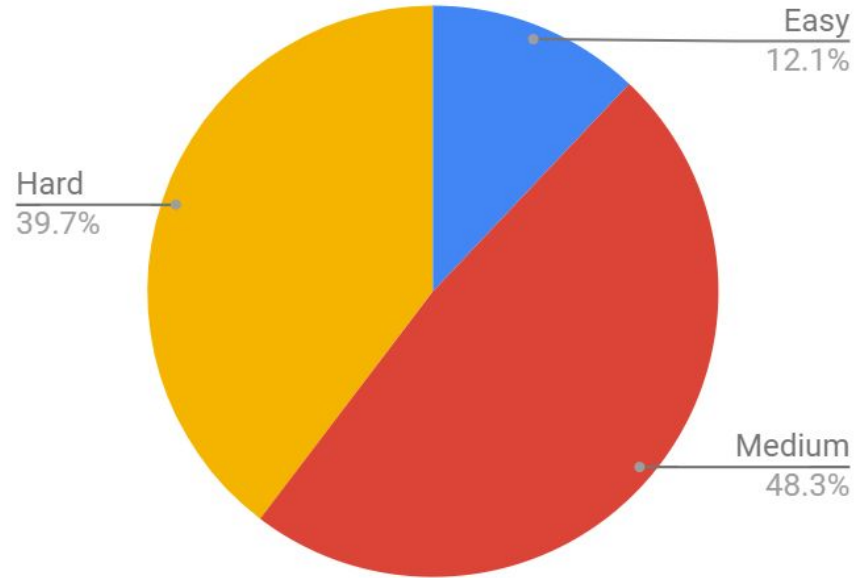


Question Types for Comparison

ERW Questions

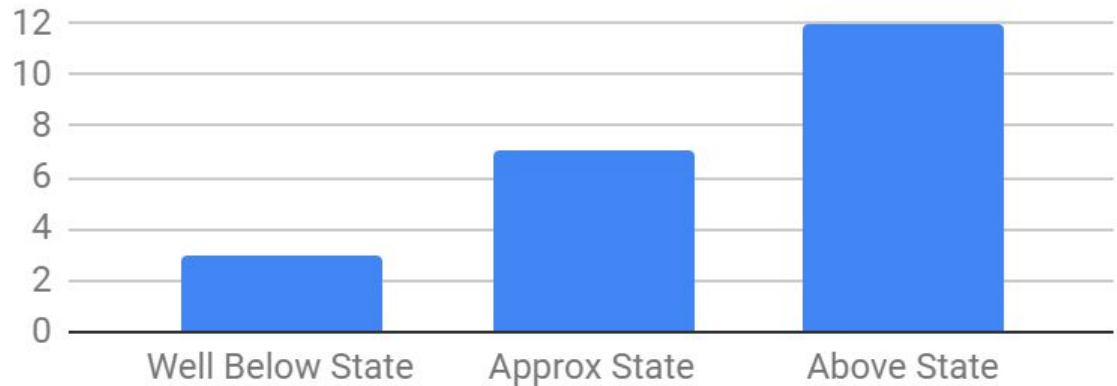


Math Questions



2020 General Reading Question Analysis

Well Below State	3
Approx State	7
Above State	12



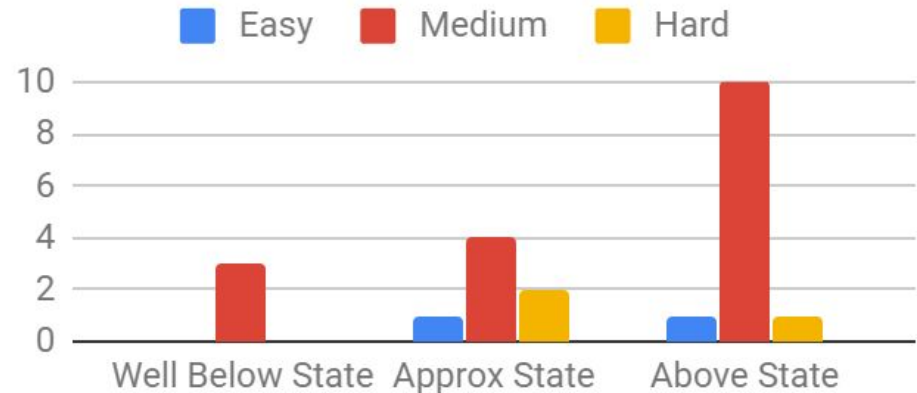
General Reading Analysis (all medium)

Approx. State = within 5% of
state percentage correct

2020 Gen Eng Question by Type	Easy	Med.	Hard
Well Below State	0	3	0
Approx State	1	4	2
Above State	1	10	1

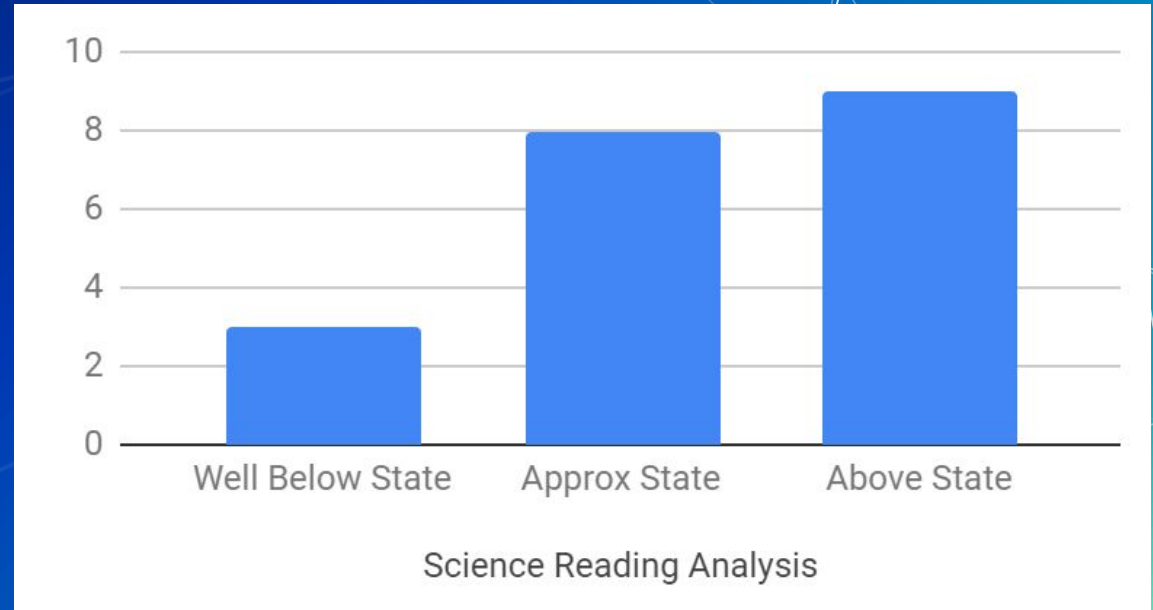
Approx. State = within 5% of state percentage correct

Easy, Medium and Hard



General Reading by Type

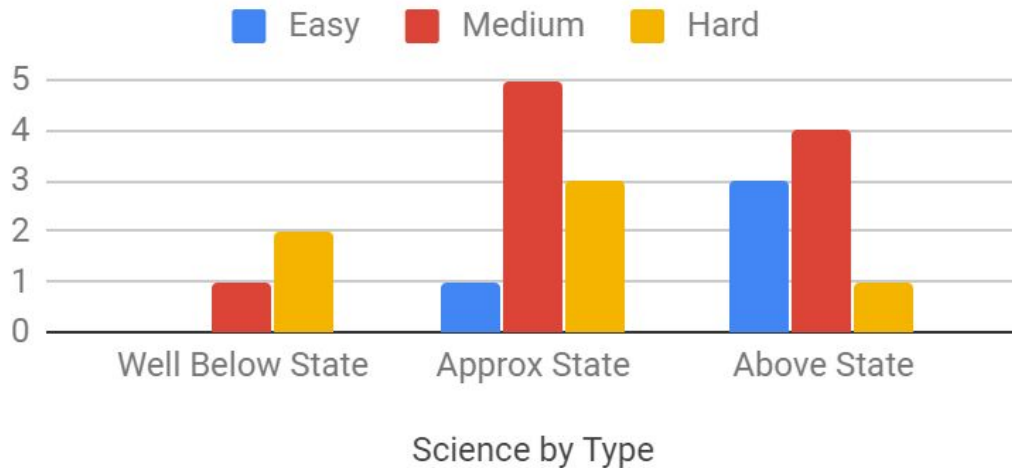
2020 Science Reading Question Analysis	
Well Below State	3
Approx State	8
Above State	9



Approx. State = within 5% of
state percentage correct

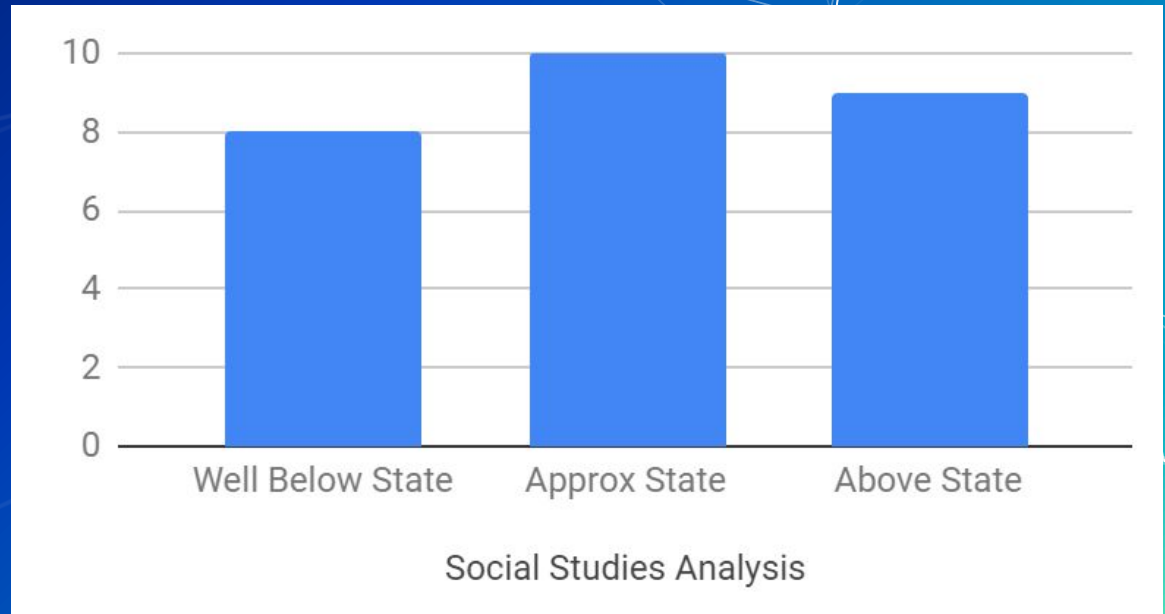
2020 Science Reading Question by Type	Easy	Med.	Hard
Well Below State	0	1	2
Approx State	1	5	3
Above State	3	4	1

Easy, Medium and Hard



Approx. State = within 5% of state percentage correct

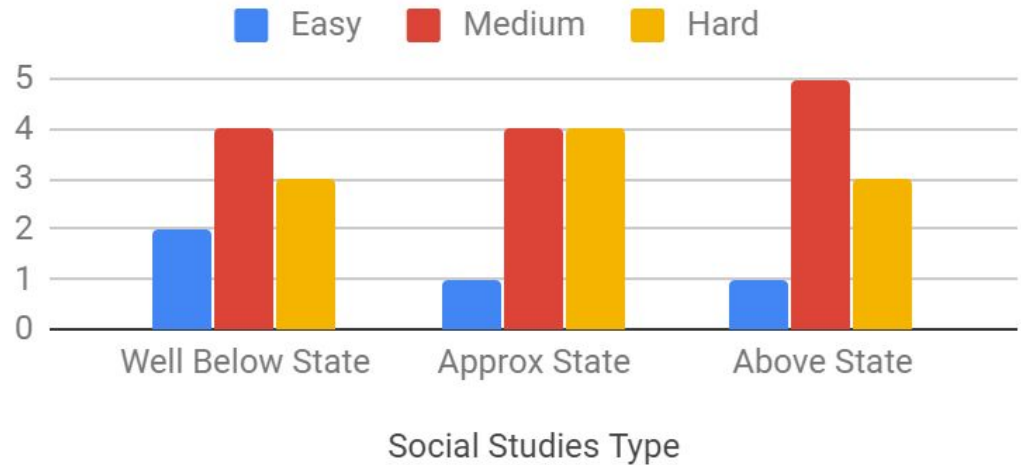
2020 Social Studies Reading Question Analysis	
Well Below State	8
Approx State	10
Above State	9



Approx. State = within 5% of
state percentage correct

2020 Social Studies Reading Question by Type	Easy	Med	Hard
Well Below State	2	4	3
Approx State	1	4	4
Above State	1	5	3

Easy, Medium and Hard



Approx. State = within 5% of state percentage correct

2020 Conventions Question Analysis

Well Below State

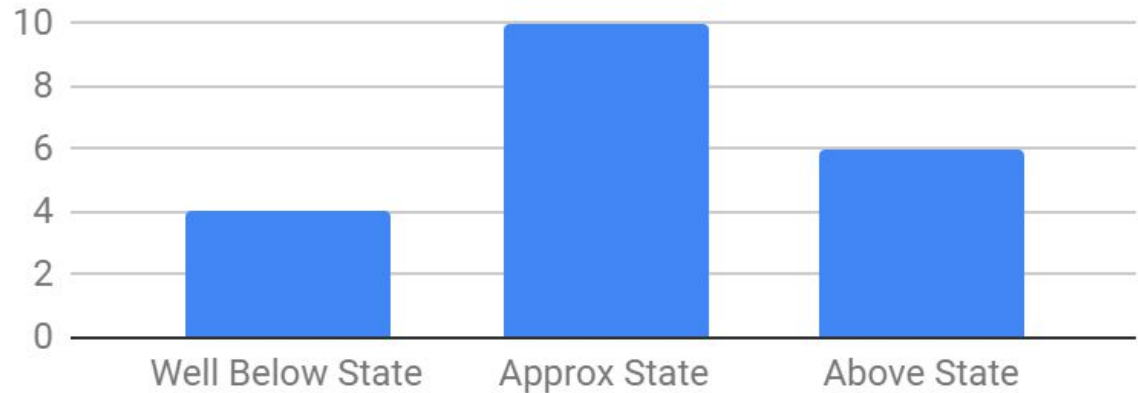
4

Approx State

10

Above State

6

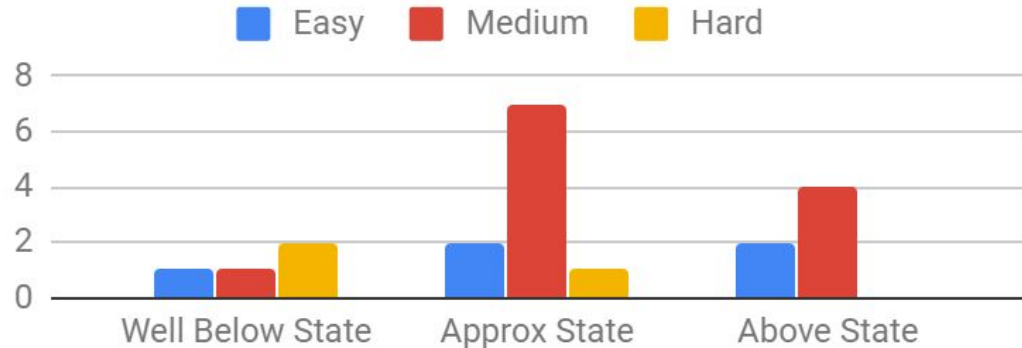


Approx. State = within 5% of
state percentage correct

Conventions Analysis

2020 Conventions Questions by Type	Easy	Med.	Hard
Well Below State	1	1	2
Approx State	2	7	1
Above State	2	4	0

Easy, Medium and Hard



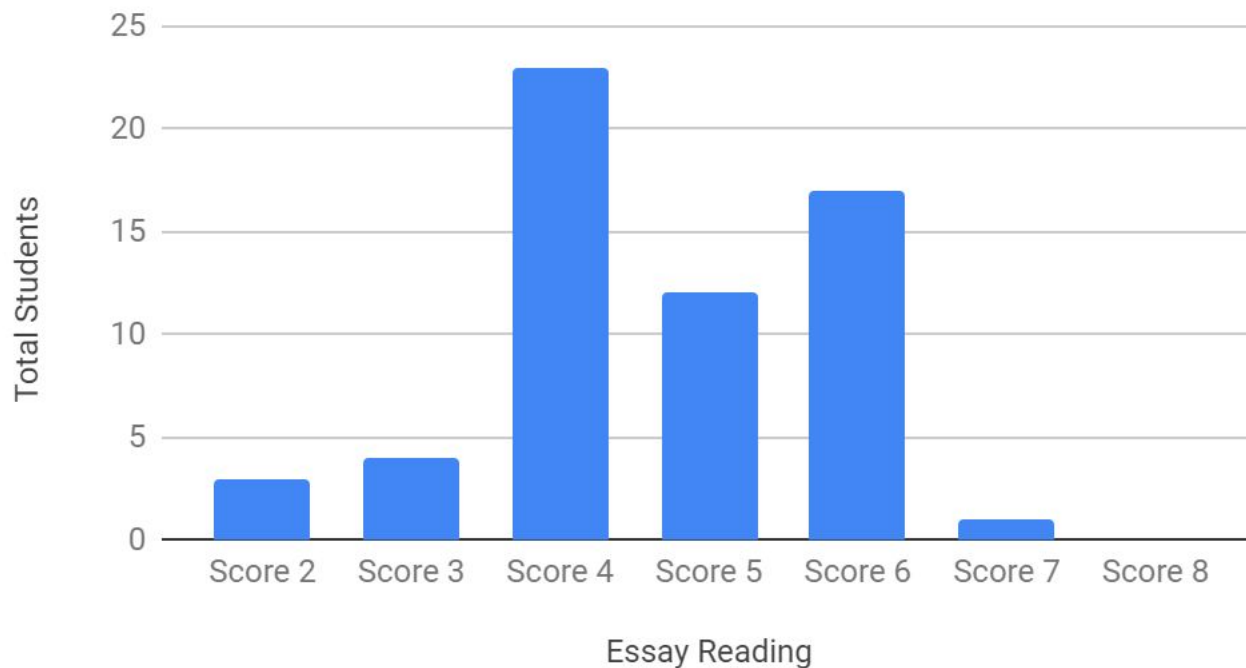
Approx. State = within 5% of state percentage correct

Conventions by Type

2020 Essay Reading Scores

Essay Reading	Total Students
Score 2	3
Score 3	4
Score 4	23
Score 5	2
Score 6	17
Score 7	1
Score 8	0

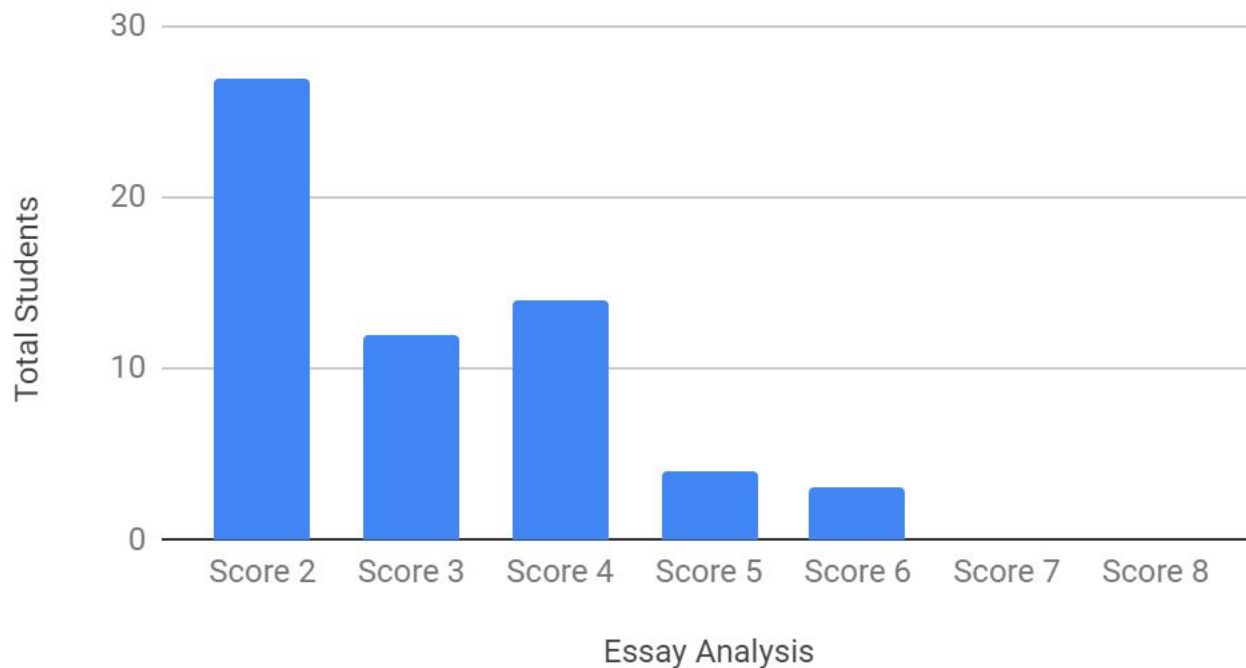
Total Students vs. Essay Reading



2020 Essay Analysis Scores

Essay Analysis	Total Students
Score 2	27
Score 3	12
Score 4	14
Score 5	4
Score 6	3
Score 7	0
Score 8	0

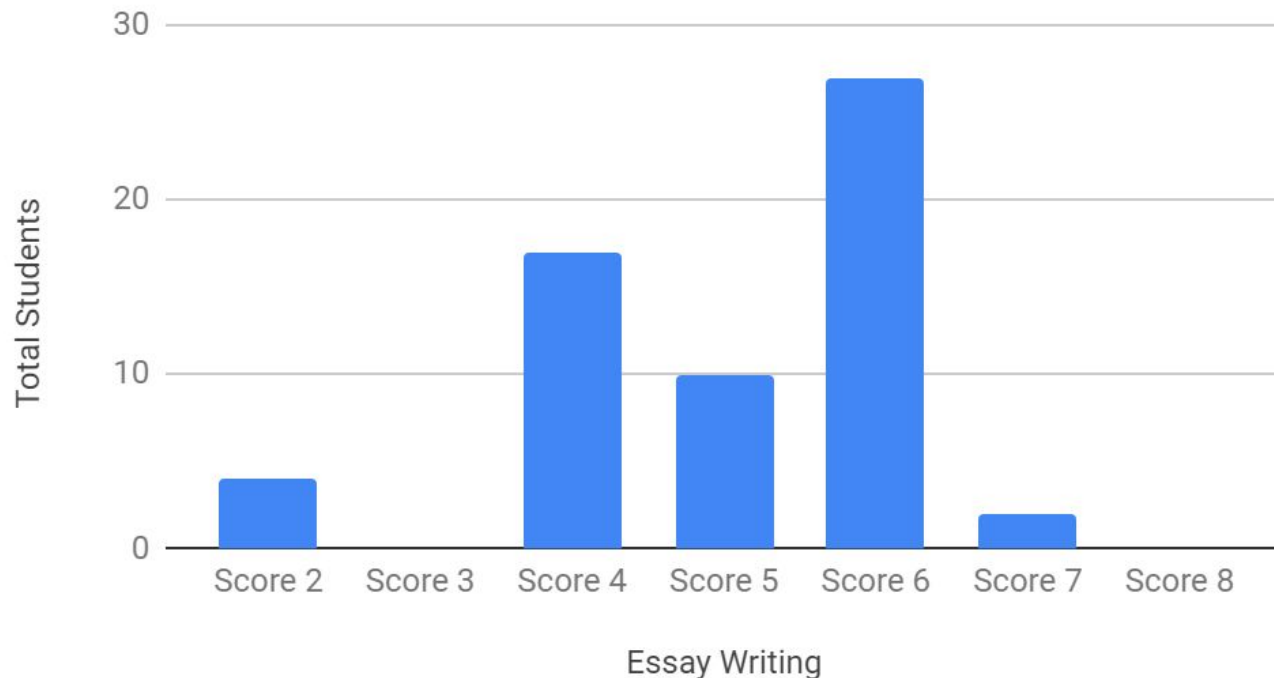
Total Students vs. Essay Analysis



2020 Essay Writing Scores

Essay Writing	Total Students
Score 2	4
Score 3	0
Score 4	17
Score 5	10
Score 6	27
Score 7	2
Score 8	0

Total Students vs. Essay Writing



2019 College Board Essay Achievement Comparisons

Group	Percent of SAT with Essay Test Takers	Mean Reading Score 2-8 ?	Mean Analysis Score 2-8 ?	Mean Writing Score 2-8 ?
School	100% 67 of 67	4 	3 	5 
District ?	100% 67 of 67	4 	3 	5 
State ?	76% 9,172 of 12,070	4 	3 	5 
Total Group ?	55% 39,682 of 71,619	4 	3 	5 

2020 College Board Essay Achievement Comparisons

Group	Percent of SAT with Essay Test Takers	Mean Reading Score 2-8 (?)	Mean Analysis Score 2-8 (?)	Mean Writing Score 2-8 (?)
School	100% 62 of 62	5 	3 	5 
District (?)	100% 62 of 62	5 	3 	5 
State (?)	99% 12,268 of 12,348	4 	3 	5 
Total Group (?)	58% 577,268 of 996,456	4 	3 	5 

Action Plan Items

- Task Force Groups
 - Content Literacy
 - Content Math
- Teacher PD
- Khan Academy Availability
- SAT Question of the Day