

# Hanover High School

# Standardized Assessment Results

2019-2020 School Year

## 1. **Advanced Placement (AP)**

- a. Overview
- b. Enrollment and Trends
- c. Results by Department - Hanover, State, Neighbors, DART
- d. Results by Course - Hanover, State, Global

## 2. **Scholastic Aptitude Test (SAT)**

- a. Overview
- b. Results - Hanover, State, Global

# Data Sources

**AP and SAT data obtained from CollegeBoard and MA DESE**

<https://scores.collegeboard.org/>

<https://profiles.doe.mass.edu/>

# 1a.

## AP - Overview

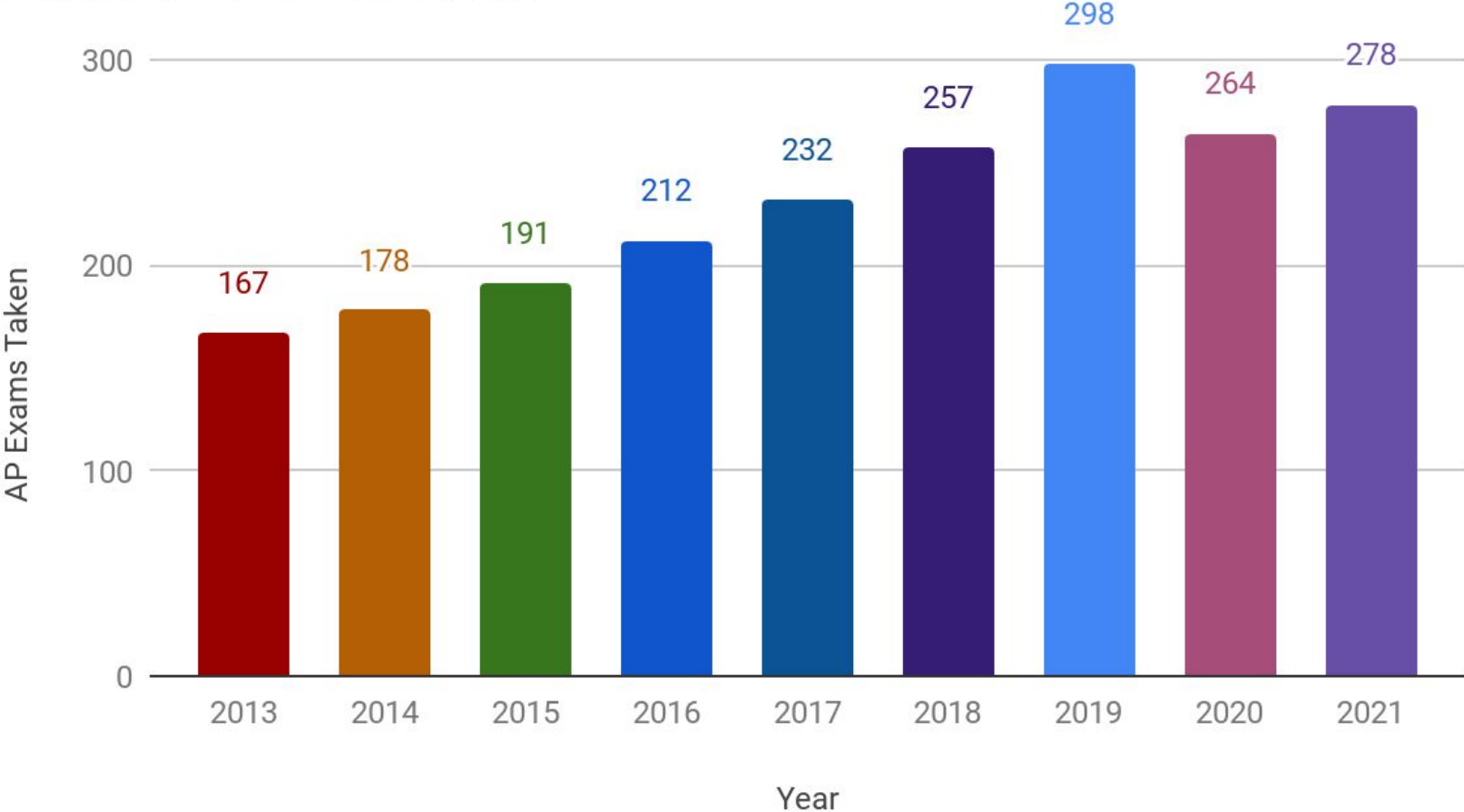
- Overview of Advanced Placement
  - Students enrolled in AP classes take the exam in May
  - Multiple choice and open response (essay or problem solving)
  - Some colleges may grant credit or waive requirements
  - National standardized test for students enrolled in AP classes
  - Scores are weighted and scaled 1-5, with 5 being the highest
  - Scores of 3, 4, or 5 are considered “qualifying scores”

# 1b.

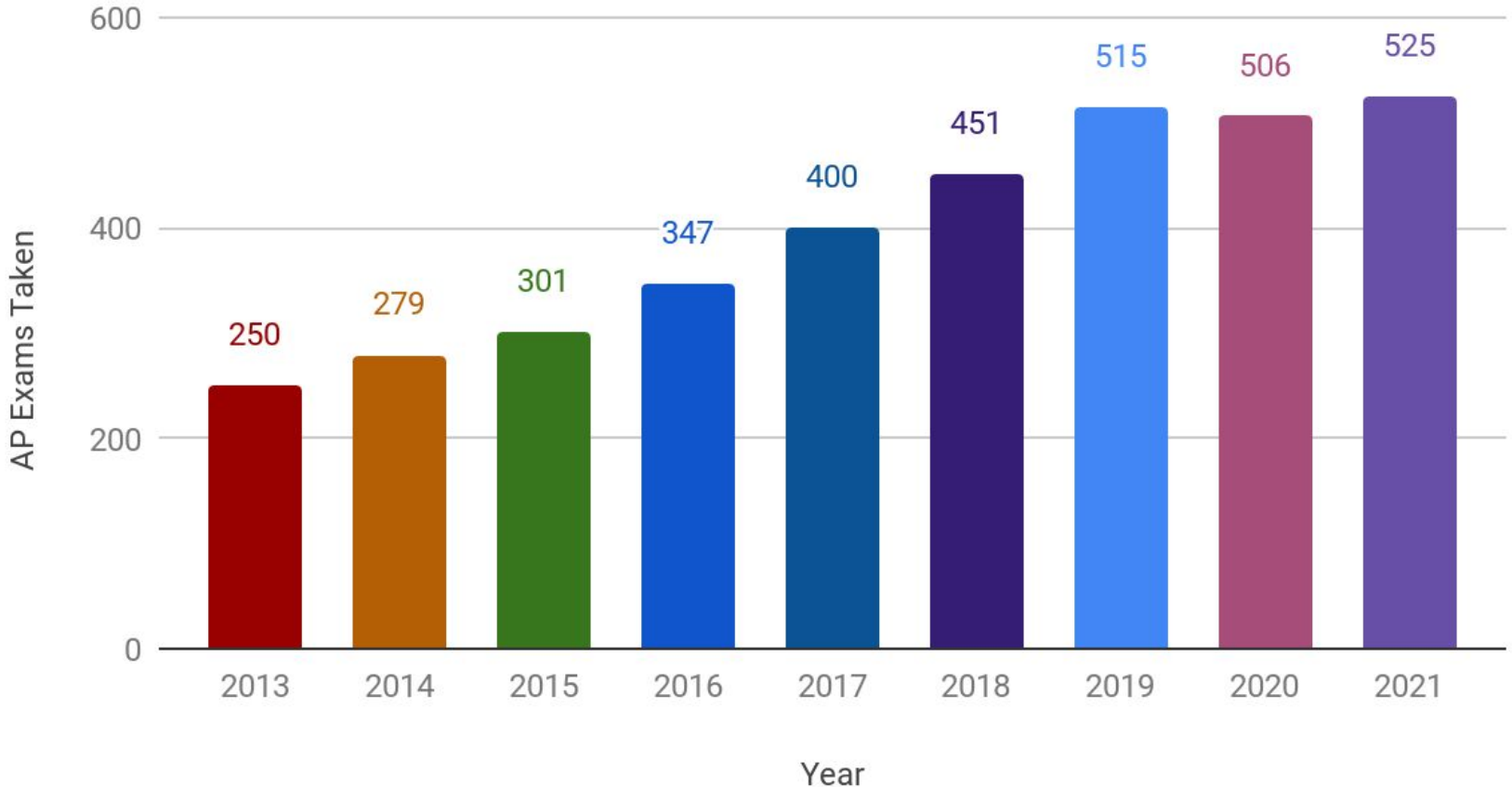
## AP - Enrollment & Trends

- AP Program Enrollment
  - AP Students
  - AP Exams
  - Breakdown of Students and Exams by Graduation Year
- AP Qualifying Scores
  - % of Exams with Score 3+
  - % of Students with Score 3+

# Number of AP Students



# Number of AP Exams

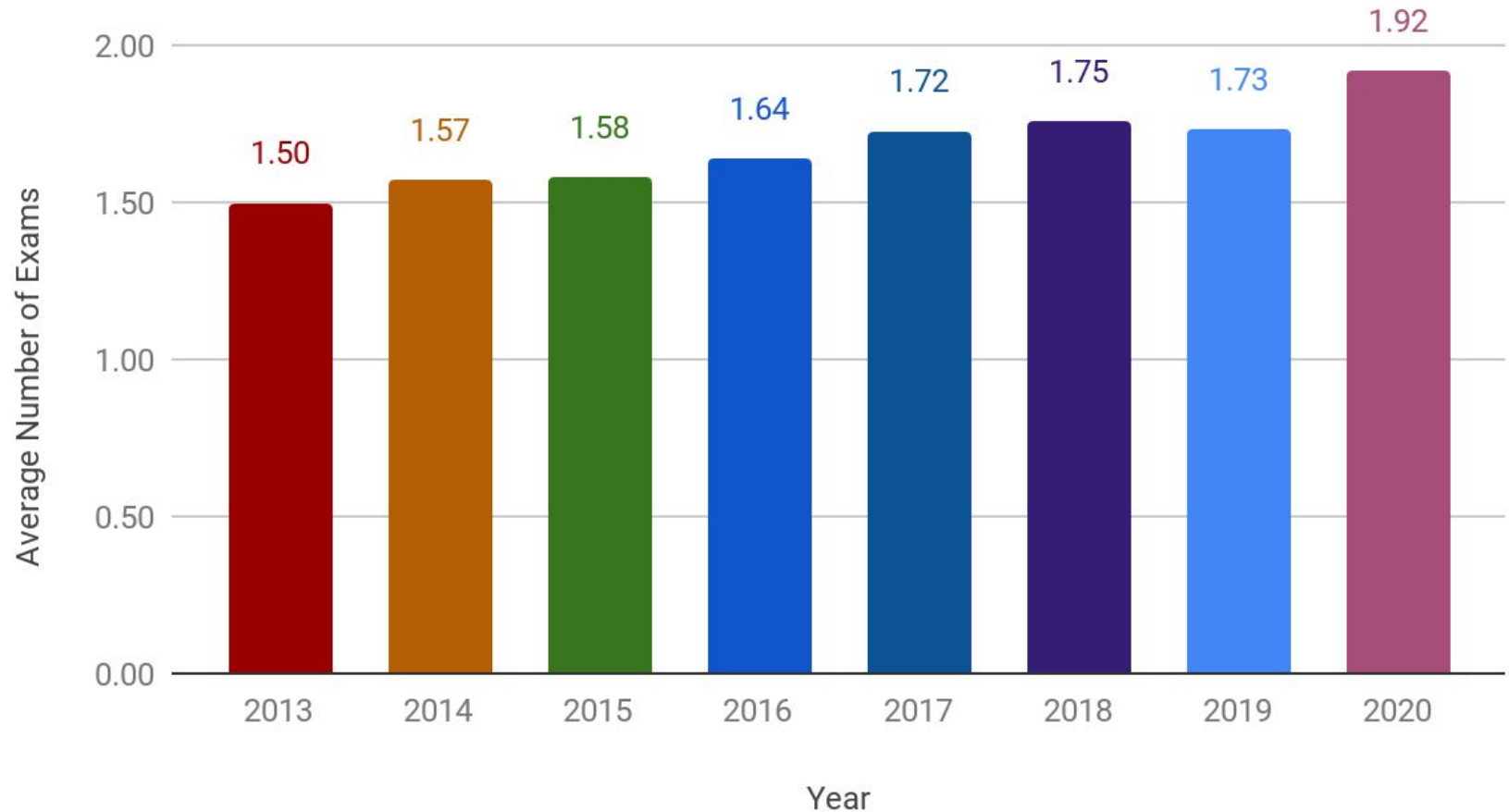


# 2020 AP Exams

## By Graduating Class & Number of Exams

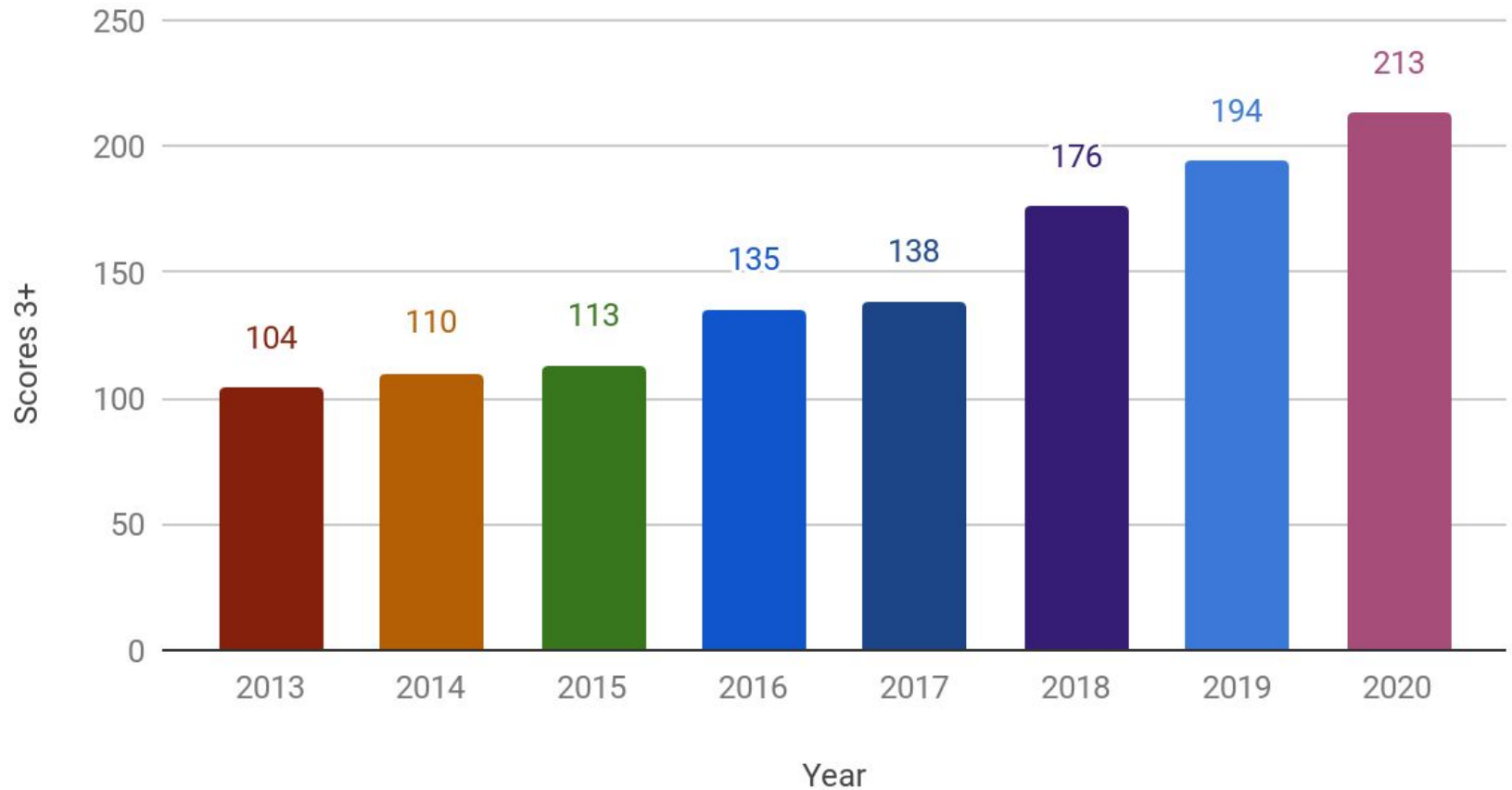
Exams	Seniors	Juniors	Sophomores	Freshmen	Total Students	Total Exams
1	31	35	47	4	117	117
2	22	45	10	0	77	154
3	28	23	1	0	52	156
4	10	3	0	0	13	52
5	4	0	0	0	4	20
6	0	0	0	0	0	0
7	0	1	0	0	1	7
<b>Totals</b>	<b>95</b>	<b>107</b>	<b>58</b>	<b>4</b>	<b>264</b>	<b>506</b>

## Average Number of AP Exams per AP Student

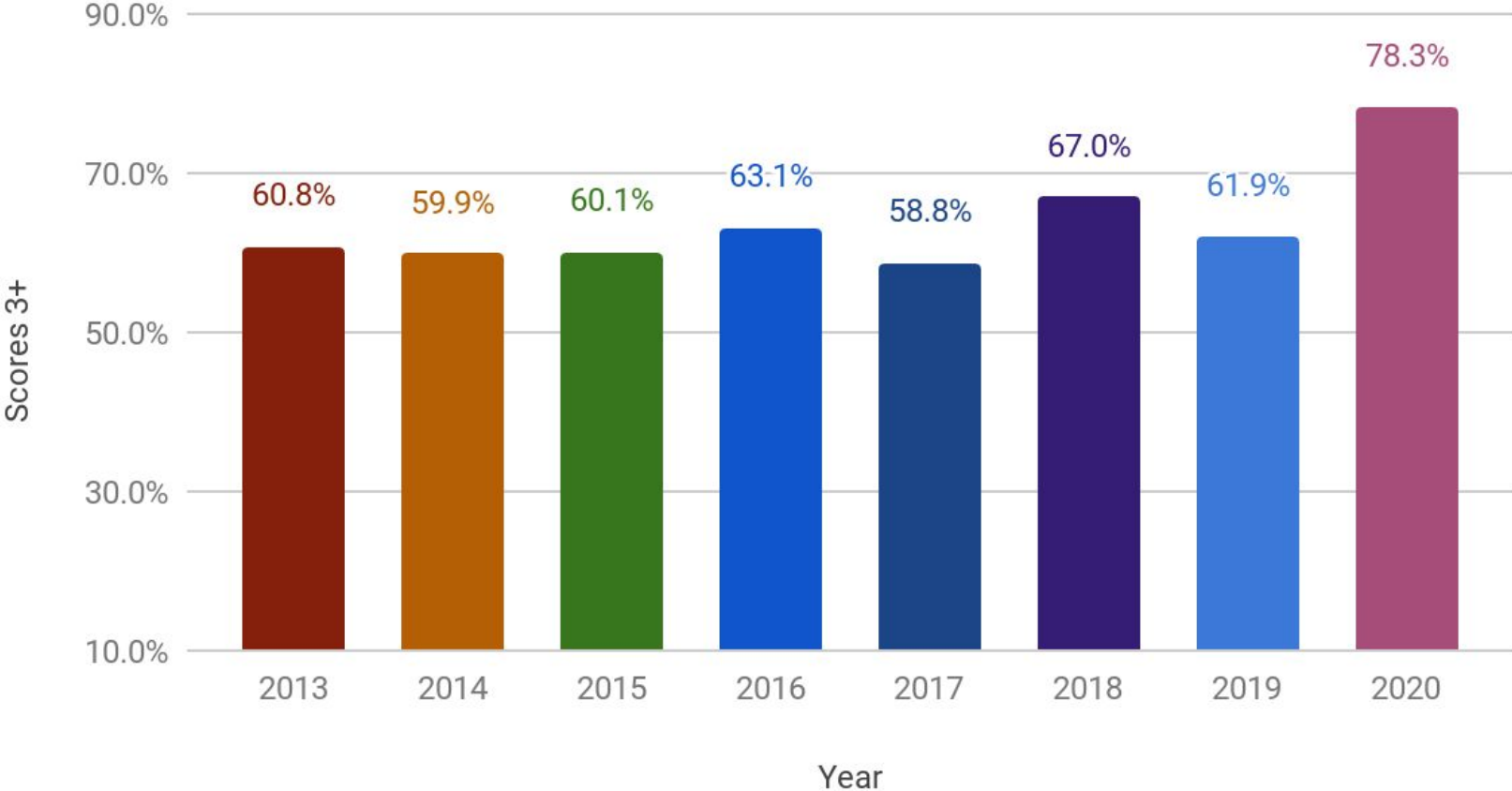




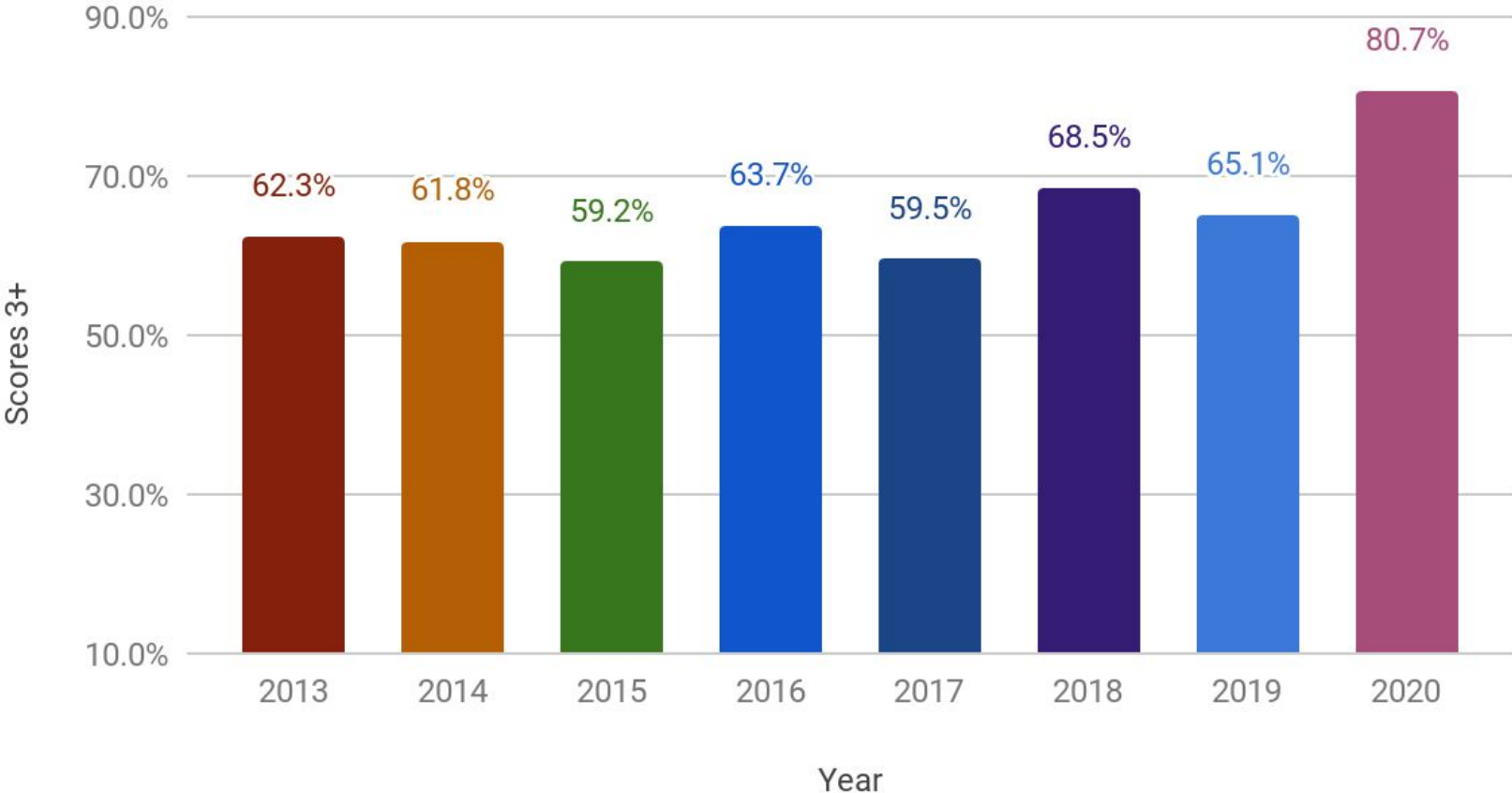
## AP Students with Scores 3+



# Percent of Exams with Scores 3+



# Percent of Students with Scores 3+



# 1c.

## AP - % of Exams with Qualifying Scores by Department

- 2020 Results - Hanover, Neighbors, DART, and State Average
  - All Subjects
  - Subjects by Department
    - **Art** - 3D Studio, Drawing, Music Theory
    - **English** - Language, Literature
    - **Foreign Languages** - French, Spanish
    - **Science** - Biology, Chemistry, Environmental, Physics
    - **History** - Government, Psychology, U.S., World
    - **Math** - Calculus AB, Calculus BC, CS A Java, CS Principles

# 1c.

## AP - % of Exams with Qualifying Scores by High School

### Neighboring High Schools

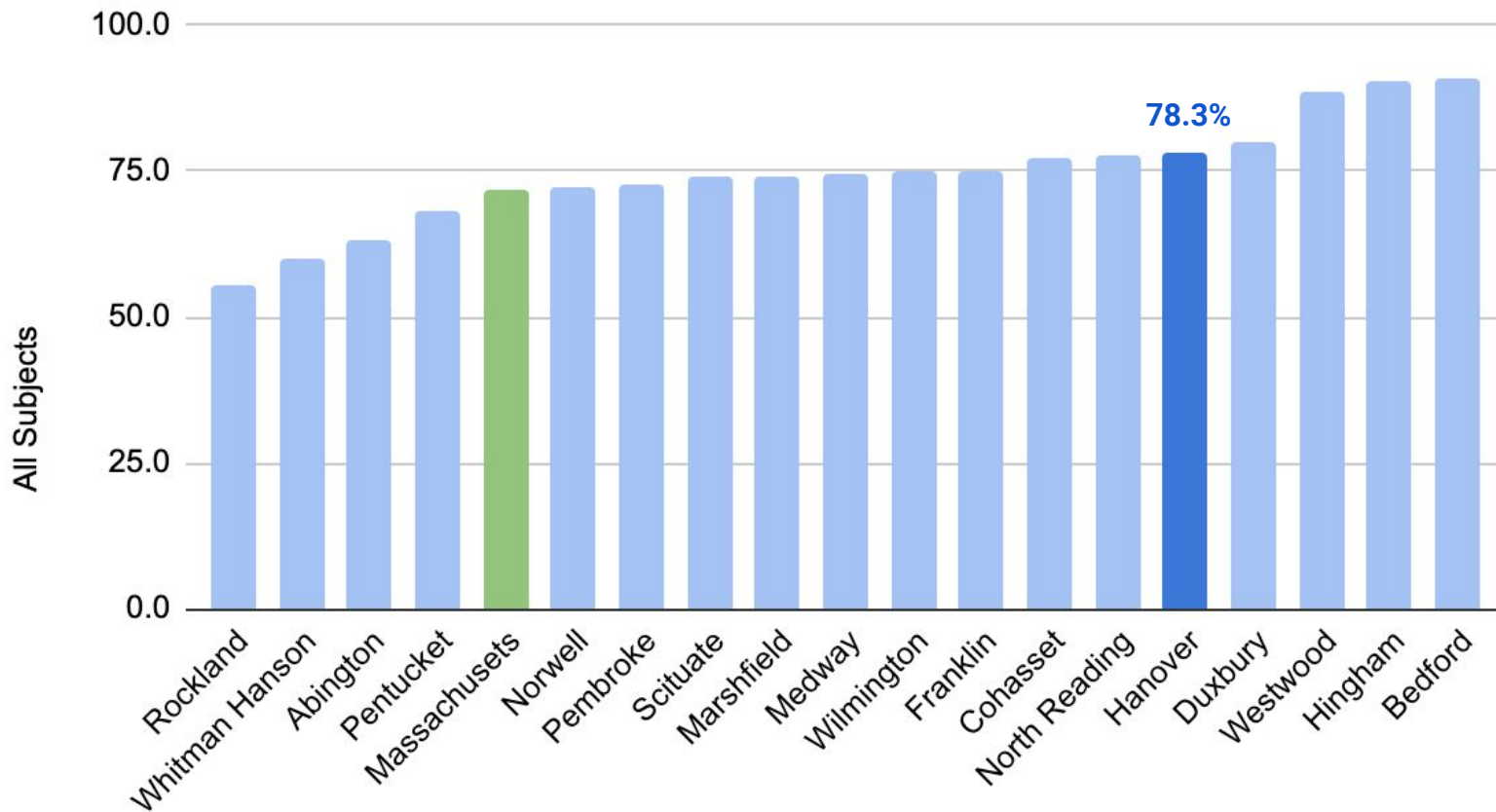
- Abington (619)
- Cohasset (447)
- Duxbury (959)
- Hanover (762)
- Hingham (1286)
- Marshfield (1220)
- Pembroke (808)
- Rockland (608)
- Whitman Hanson (1117)

### DART High Schools

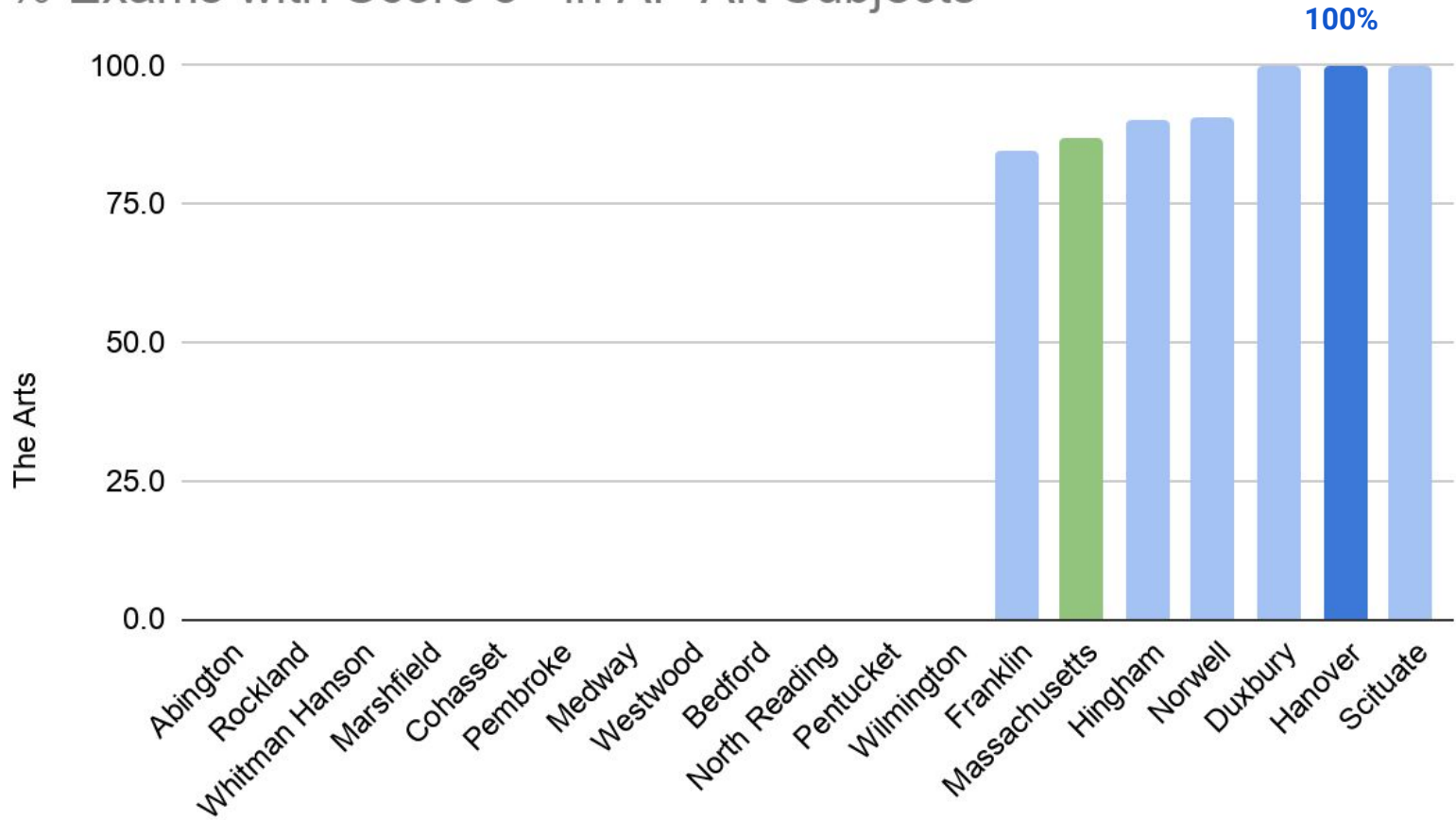
- Bedford (829)
- Franklin (1734)
- Medway (631)
- North Reading (662)
- Norwell (644)
- Pentucket (673)
- Scituate (921)
- Westwood (993)
- Wilmington (755)

High School	School	All Subjects		The Arts		English		Foreign Lang		History		Science		Math	
	Enrollment	Tests	%3+	Tests	%3+	Tests	%3+	Tests	%3+	Tests	%3+	Tests	%3+	Tests	%3+
Abington	619	109	63%			50	56%			17	59%	17	82%	25	68%
Bedford	829	299	91%	5	- na -	29	93%	27	100%	25	84%	127	93%	86	86%
Cohasset	447	353	77%			90	90%	16	69%	130	85%	39	31%	78	76%
Duxbury	959	605	80%	14	100%	112	85%	30	93%	301	77%	83	90%	65	62%
Franklin	1,734	998	75%	33	85%	17	82%	49	69%	313	79%	269	75%	317	71%
Hanover	762	506	78%	11	100%	117	76%	16	100%	160	78%	121	70%	80	88%
Hingham	1,286	445	90%	10	90%	59	95%	83	94%	98	95%	88	83%	106	87%
Marshfield	1,220	410	74%	4	- na -	65	94%	23	100%	190	75%	69	57%	59	61%
Medway	631	490	75%			72	86%	30	60%	225	77%	67	76%	96	64%
North Reading	662	308	78%			73	80%	4	- na -	64	86%	108	73%	59	73%
Norwell	644	478	72%	42	91%	57	88%	30	90%	210	62%	73	75%	66	68%
Pembroke	808	358	73%	8	- na -	41	90%	13	62%	137	79%	49	80%	110	60%
Pentucket	673	324	68%	4	- na -	34	82%	10	60%	92	73%	84	63%	78	59%
Rockland	608	164	56%			57	46%			36	50%	41	59%	27	78%
Scituate	921	464	74%	10	100%	166	77%	14	93%	112	96%	84	58%	78	46%
Westwood	993	717	88%	9	- na -	85	94%	48	92%	366	91%	124	85%	85	74%
WH Regional	1,117	630	60%			172	72%	17	82%	201	75%	162	46%	78	18%
Wilmington	755	413	75%			83	87%	7	- na -	183	84%	65	49%	75	59%

## % Exams with Score 3+ in All AP Subjects

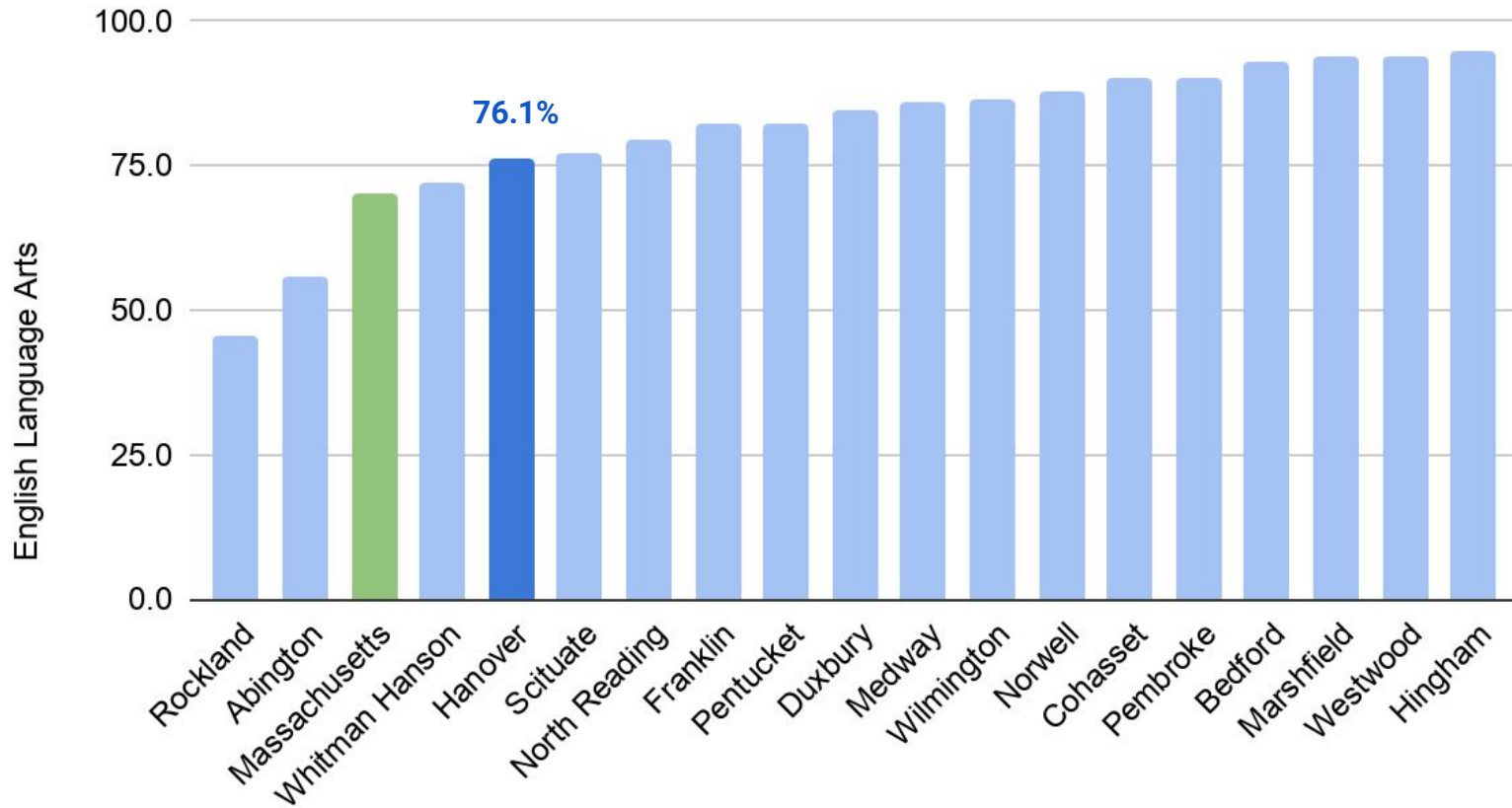


# % Exams with Score 3+ in AP Art Subjects

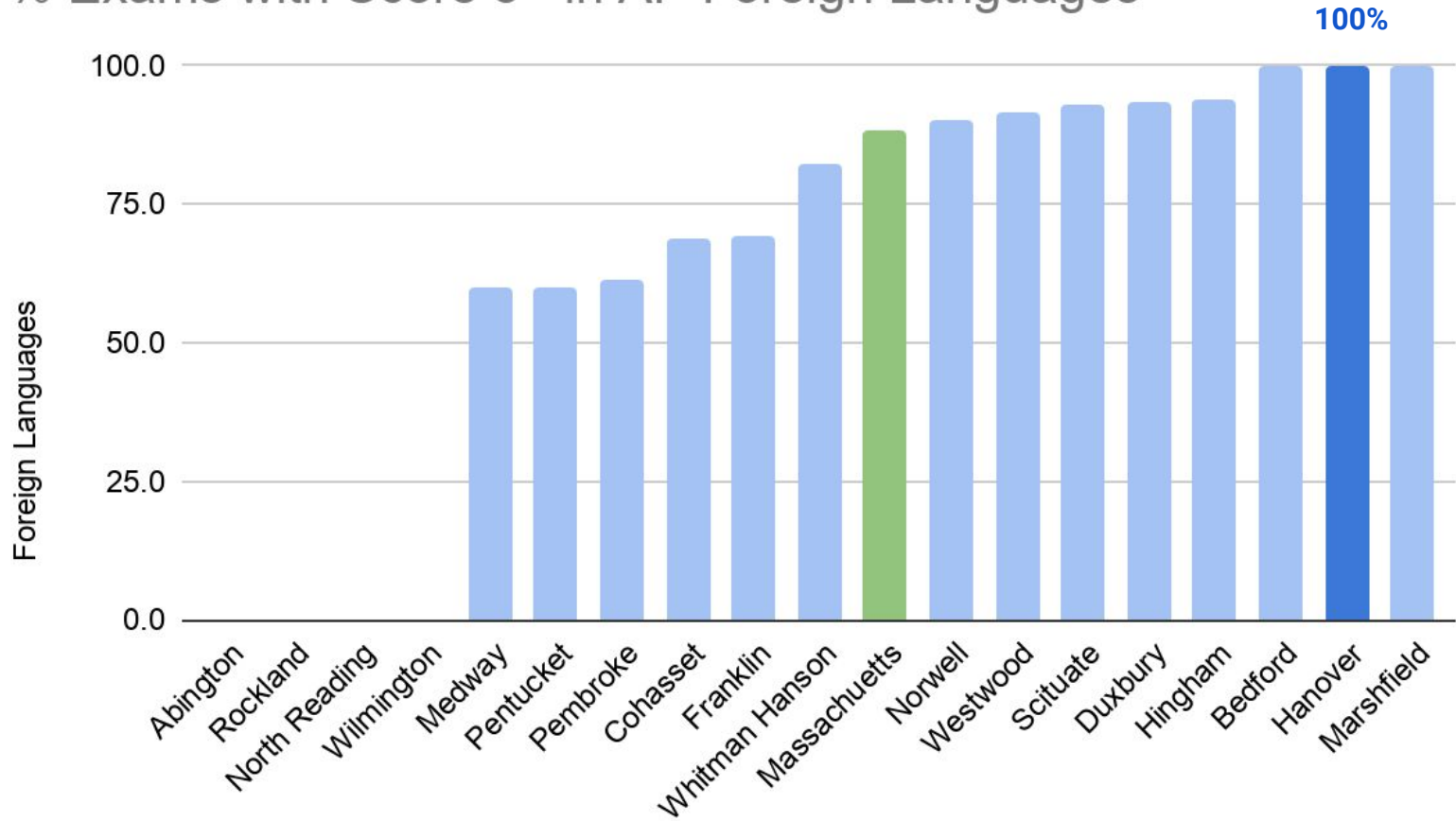




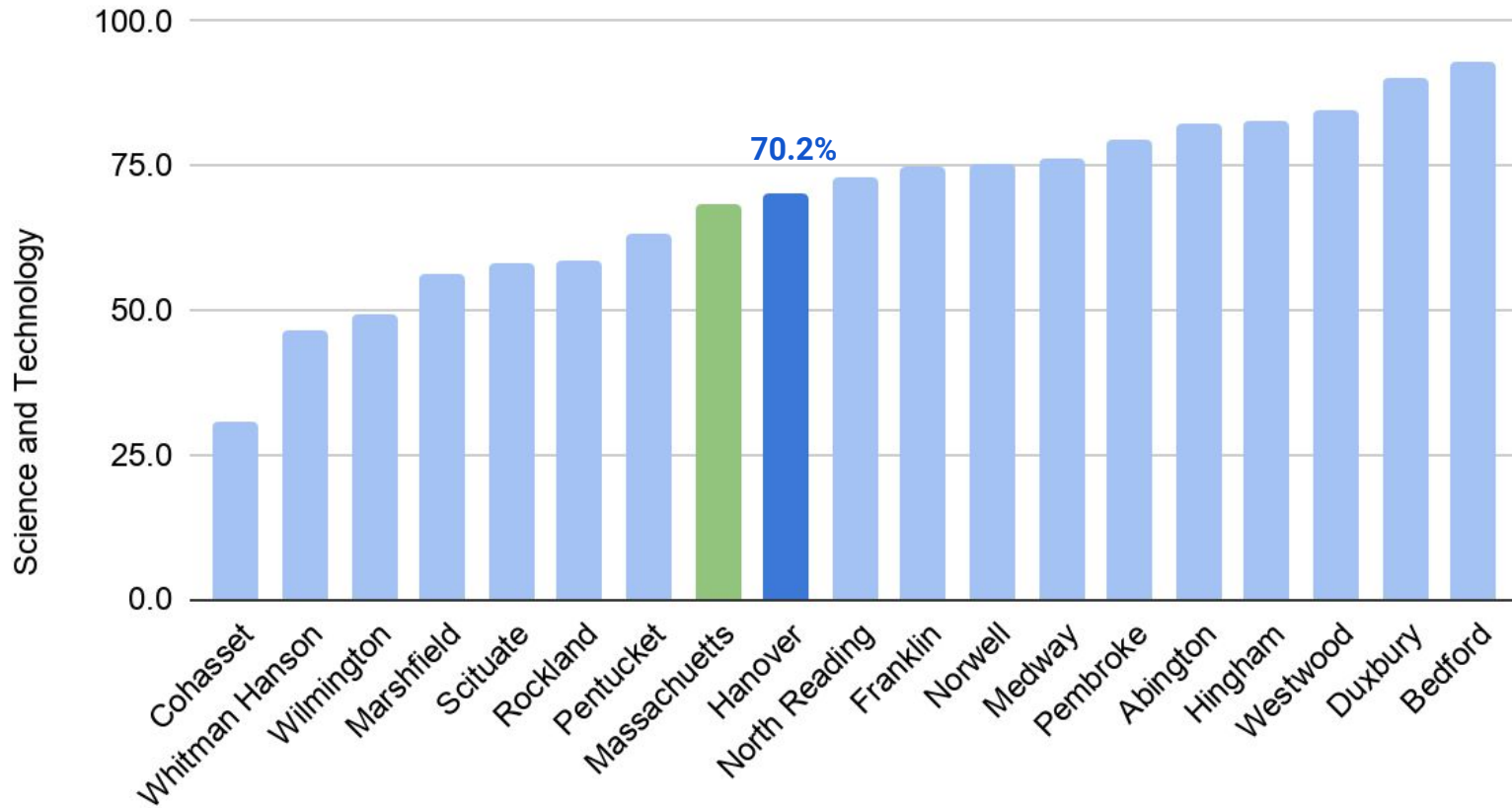
## % Exams with Score 3+ in AP English Subjects



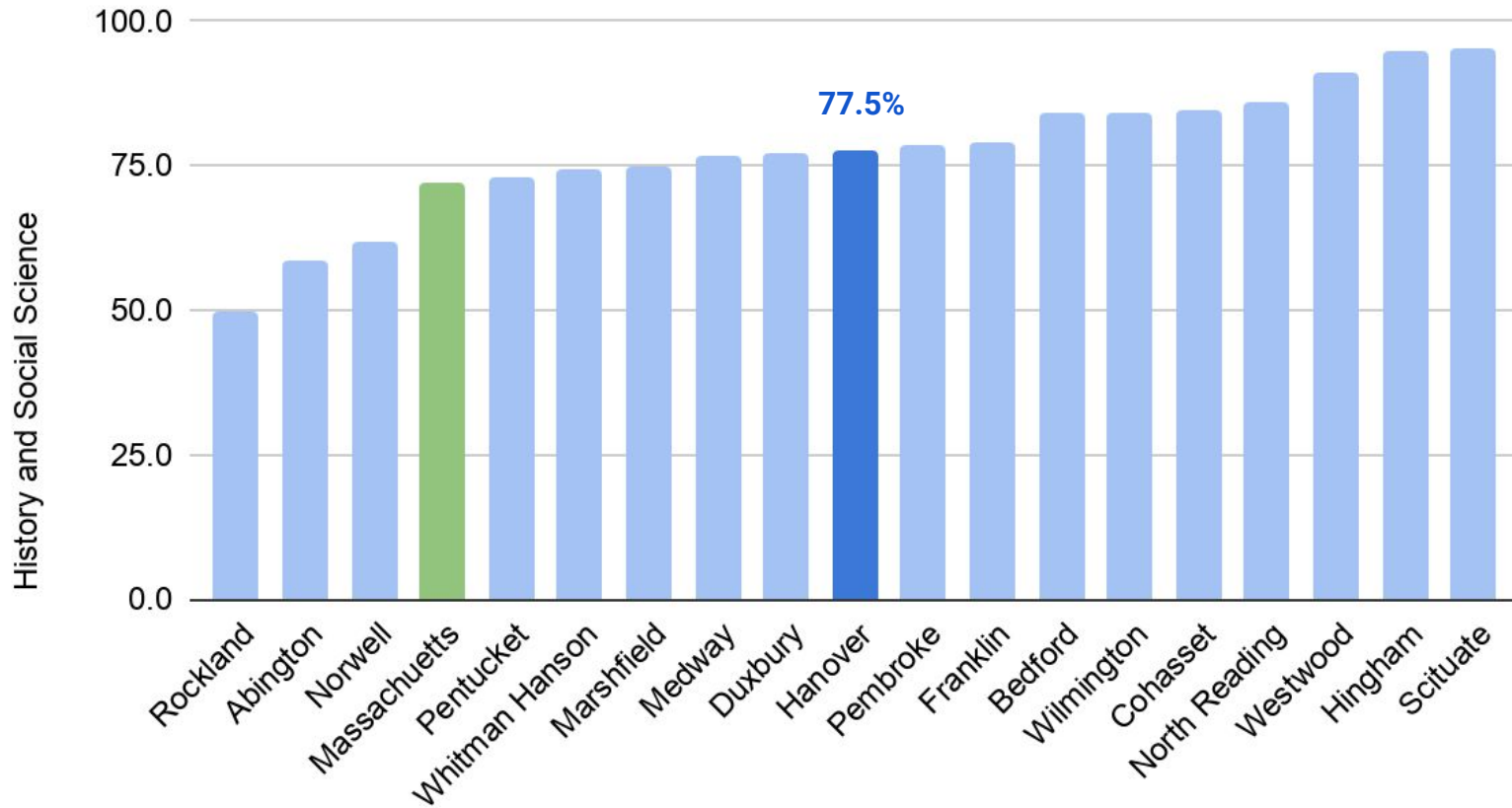
## % Exams with Score 3+ in AP Foreign Languages



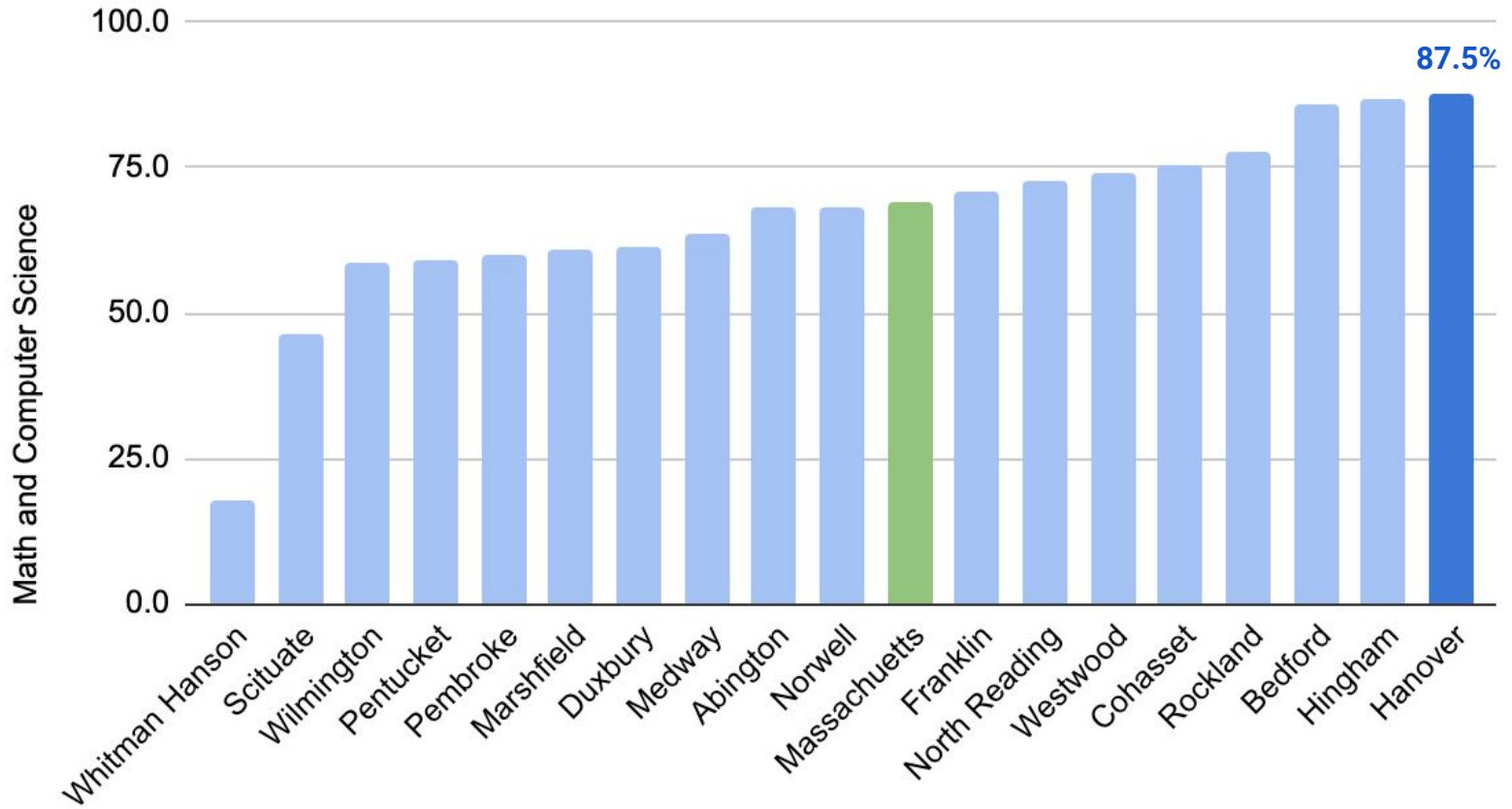
## % Exams with Score 3+ in AP Science and Technology



## % Exams with Score 3+ in AP History and Social Sciences



# % Exams with Score 3+ in AP Math and Computer Science



# 1d.

## AP - Summary of Results by Exam - Hanover, State, Global

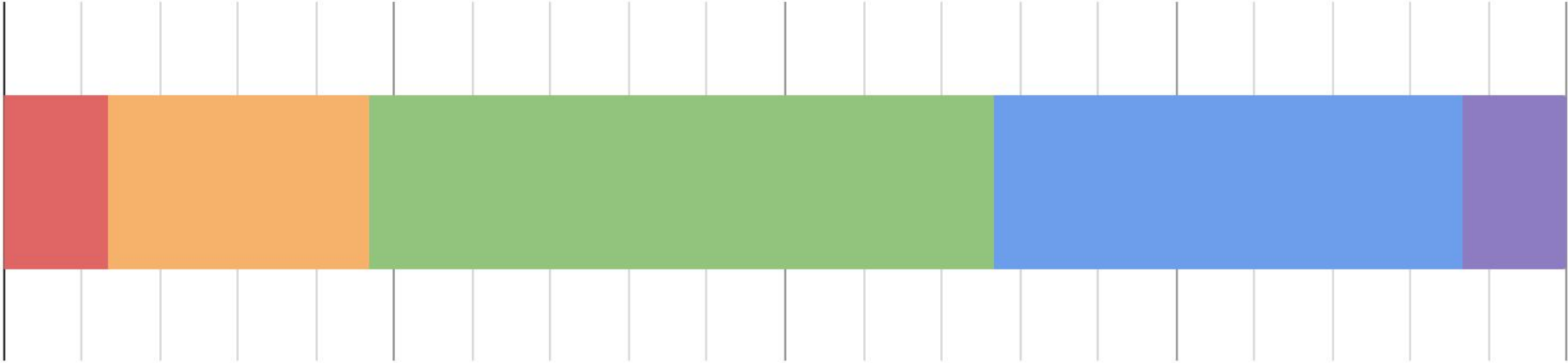
- Biology
- Calculus AB
- Calculus BC
- Chemistry
- CS A Java
- CS Principles
- English Language
- English Literature
- Environmental
- French
- Music Theory
- Physics 1
- Physics 2
- Psychology
- Spanish
- Studio Art - 3D Design
- Studio Art - Drawing
- US Government
- US History
- World History

Note: **Historical** represents the average for HHS students taking that exam, when offered 2010-2020.

# Biology

Enrollment: 30

	Hanover	State	Global	Historical
Average Score	3.13	3.26	3.03	2.72
Scores 3+	76.7%	75.7%	68.8%	56.4%



6.7%

1

16.7%

2

40.0%

3

30.0%

4

6.7%

5

# Calculus AB

Enrollment: 38

Average Score

Hanover

3.53

State

3.27

Global

3.06

Historical

3.61

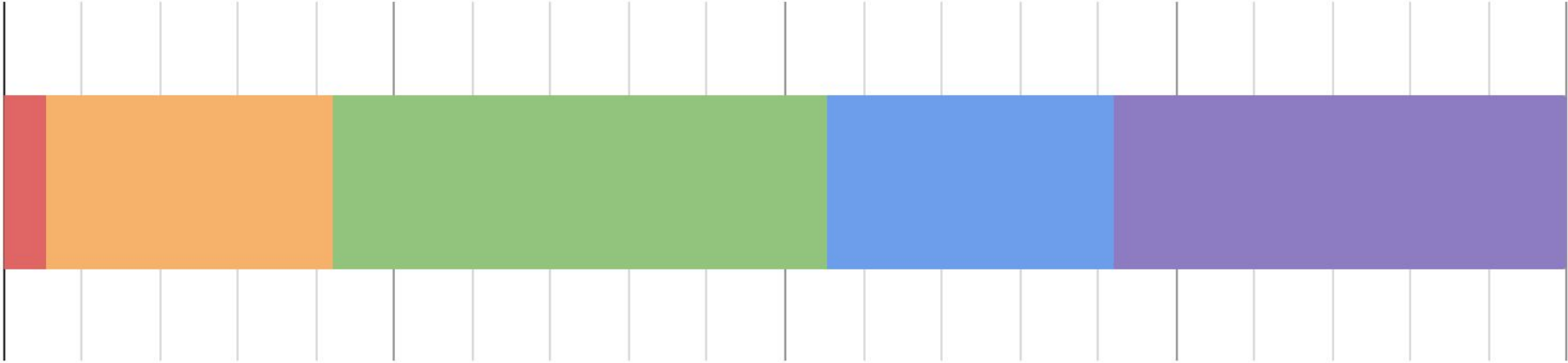
Scores 3+

78.9%

67.8%

61.3%

79.1%



2.6%

1

18.4%

2

31.6%

3

18.4%

4

28.9%

5



# Calculus BC

Enrollment: 5

Average Score

Hanover

4.40

State

4.07

Global

3.84

Historical

4.00

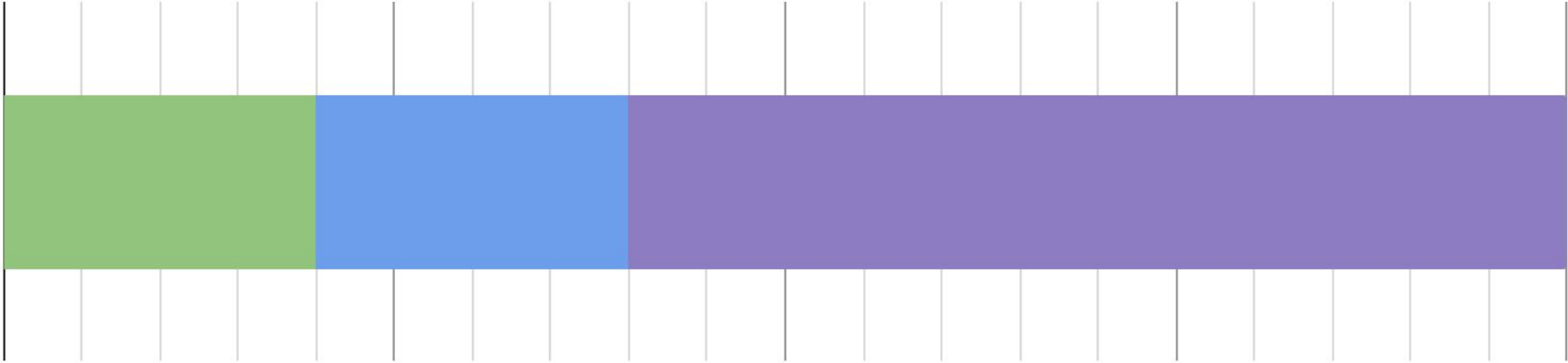
Scores 3+

100.0%

87.4%

81.5%

85.7%



0.0%

0.0%

20.0%

20.0%

60.0%

1

2

3

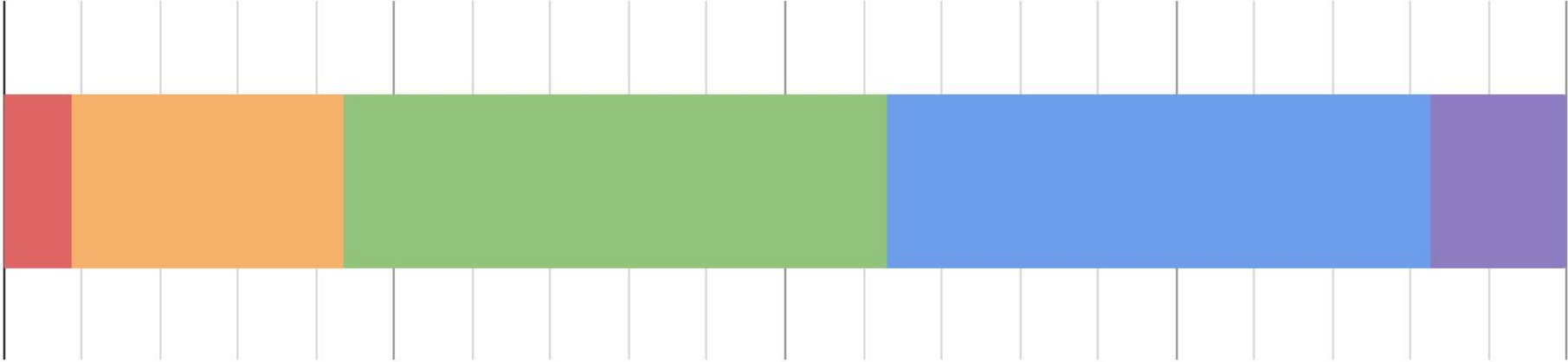
4

5

# Chemistry

Enrollment: 23

	Hanover	State	Global	Historical
Average Score	3.26	3.08	2.76	2.74
Scores 3+	78.3%	66.3%	56.2%	58.8%



4.3%

1

17.4%

2

34.8%

3

34.8%

4

8.7%

5

# CS A Java

Enrollment: 14

	Hanover	State	Global	Historical
Average Score	4.07	3.46	3.26	3.46
Scores 3+	92.9%	74.7%	70.4%	75.0%



7.1%

1

0.0%

2

14.3%

3

35.7%

4

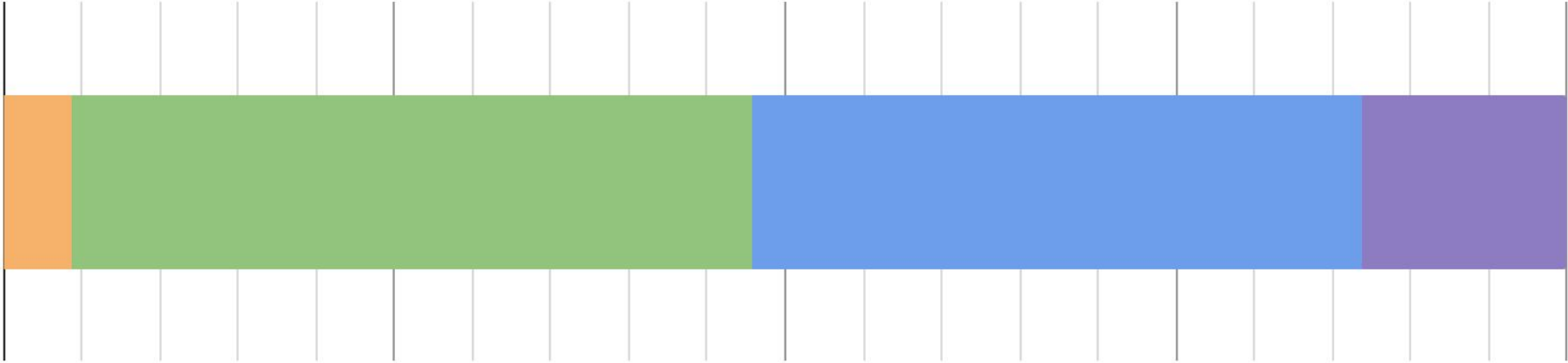
42.9%

5

# CS Principles

Enrollment: 23

	Hanover	State	Global	Historical
Average Score	3.61	3.13	3.07	3.33
Scores 3+	95.7%	73.5%	70.8%	81.9%



0.0%

1

4.3%

2

43.5%

3

39.1%

4

13.0%

5

# English Language

Enrollment: 65

Average Score

Hanover

3.40

State

3.24

Global

2.96

Historical

3.26

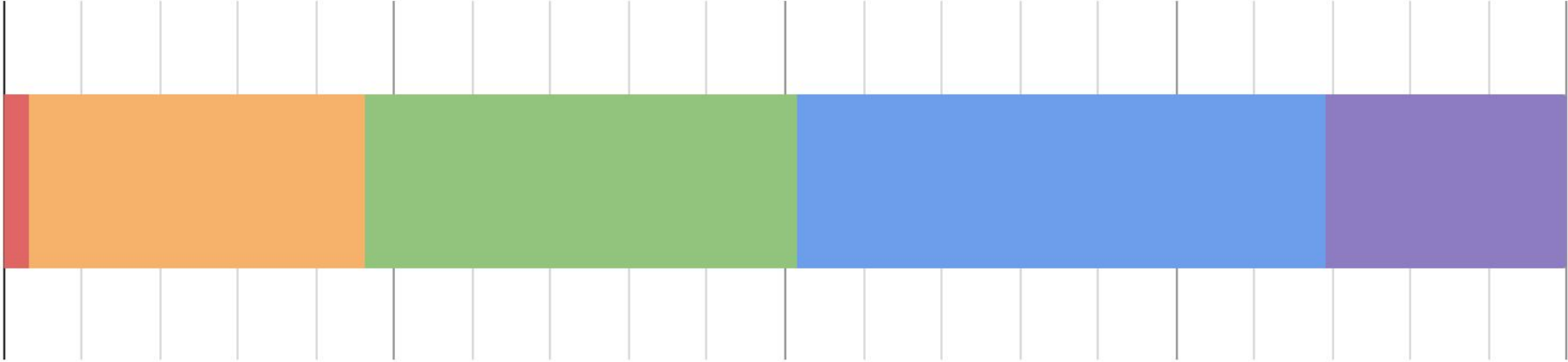
Scores 3+

76.9%

71.8%

62.2%

73.4%



1.5%

1

21.5%

2

27.7%

3

33.8%

4

15.4%

5

# English Literature

Enrollment: 53

Average Score

Hanover

3.04

State

3.19

Global

2.84

Historical

2.91

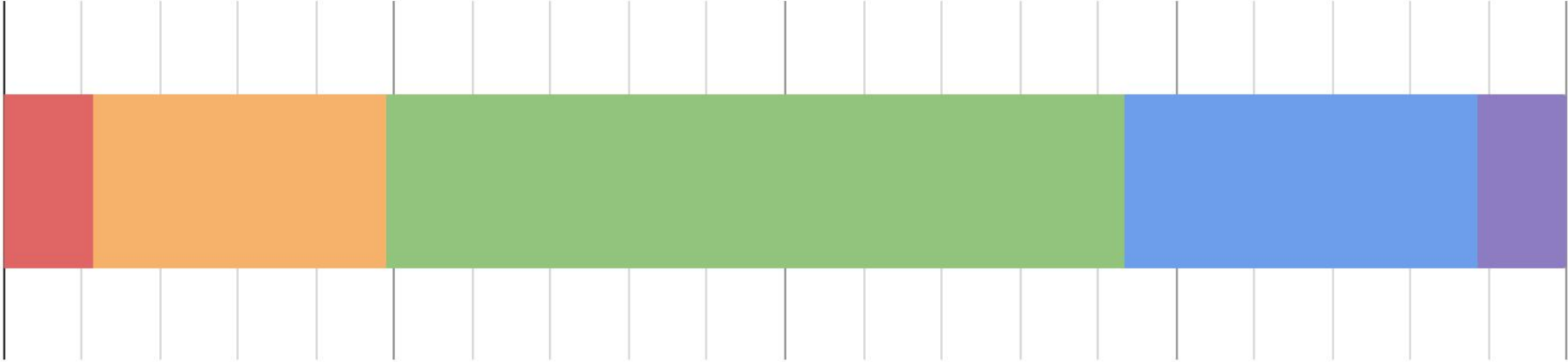
Scores 3+

75.5%

72.5%

60.1%

61.1%



5.7%

1

18.9%

2

42.7%

3

22.6%

4

5.7%

5

# Environmental

Enrollment: 42

Average Score

Hanover

3.02

State

3.12

Global

2.84

Historical

2.32

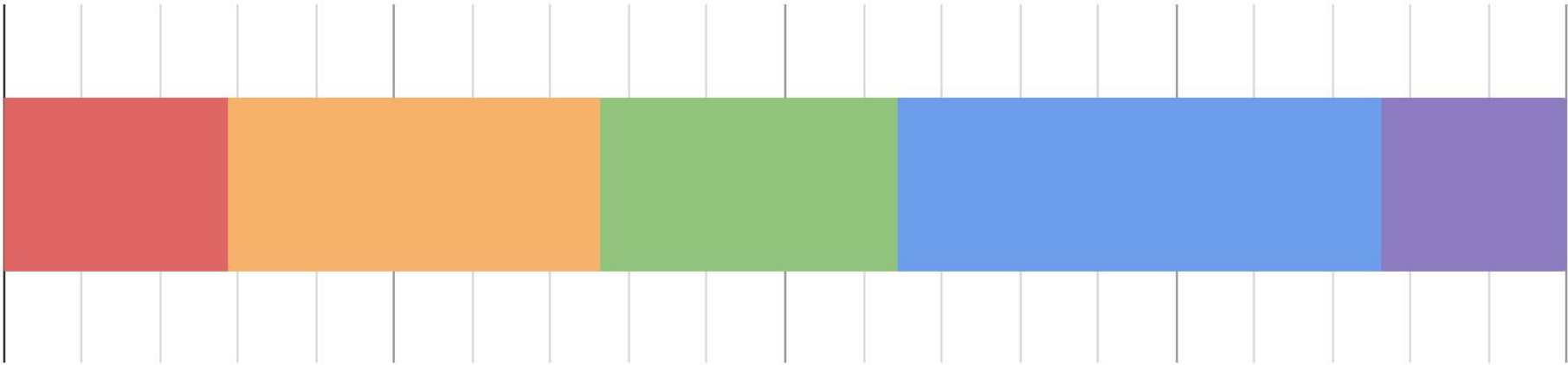
Scores 3+

61.9%

62.1%

53.2%

38.0%



14.3%

1

23.8%

2

19.0%

3

31.0%

4

11.9%

5

# French

Enrollment: 11

	Hanover	State	Global	Historical
Average Score	3.36	3.83	3.57	2.58
Scores 3+	100.0%	90.1%	83.2%	53.8%



0.0%

1

0.0%

2

63.6%

3

36.4%

4

0.0%

5



# Music Theory

Enrollment: 4

Average Score

Hanover

3.25

State

3.58

Global

3.23

Historical

3.48

Scores 3+

100.0%

80.2%

67.5%

77.8%



0.0%

1

0.0%

2

75.0%

3

25.0%

4

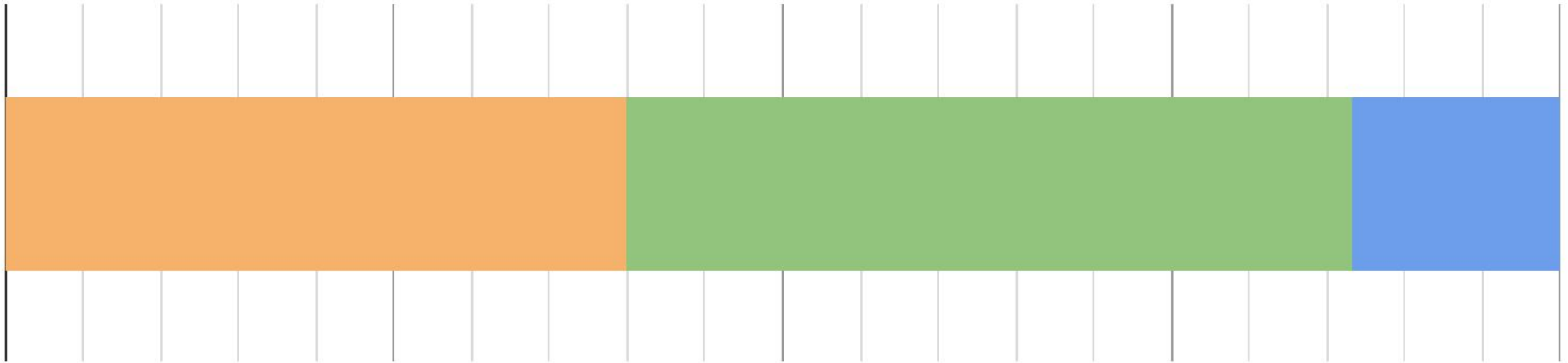
0.0%

5

# Physics 1

Enrollment: 15

	Hanover	State	Global	Historical
Average Score	2.73	2.81	2.66	2.68
Scores 3+	60.0%	57.2%	51.9%	58.3%



0.0%

1

40.0%

2

46.7%

3

13.3%

4

0.0%

5

# Physics 2

Enrollment: 8

	Hanover	State	Global	Historical
Average Score	3.50	3.17	3.20	2.70
Scores 3+	100.0%	71.4%	73.3%	58.1%



0.0%

1

0.0%

2

62.5%

3

25.0%

4

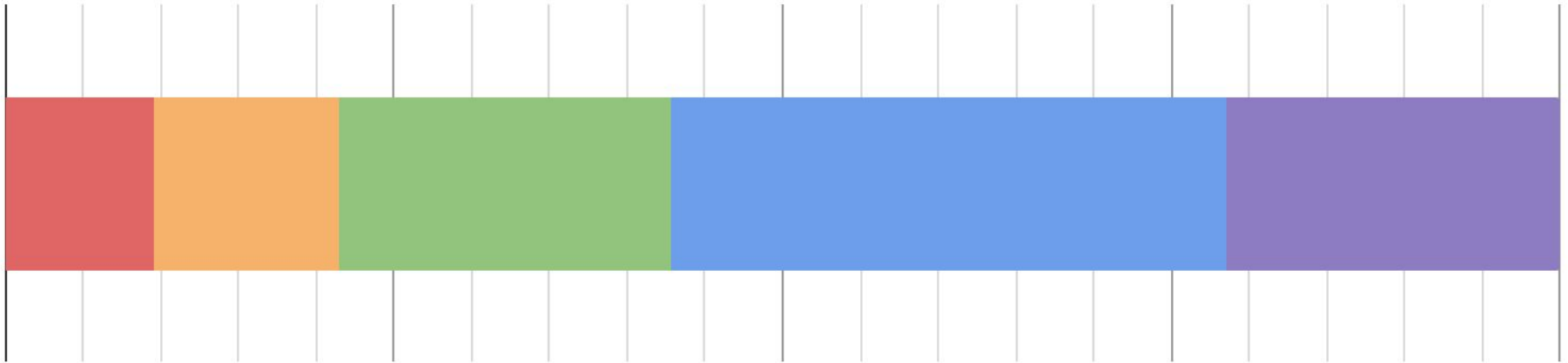
12.5%

5

# Psychology

Enrollment: 42

	Hanover	State	Global	Historical
Average Score	3.48	3.45	3.31	2.50
Scores 3+	78.6%	77.1%	71.1%	48.1%



9.5%

1

11.9%

2

21.4%

3

35.7%

4

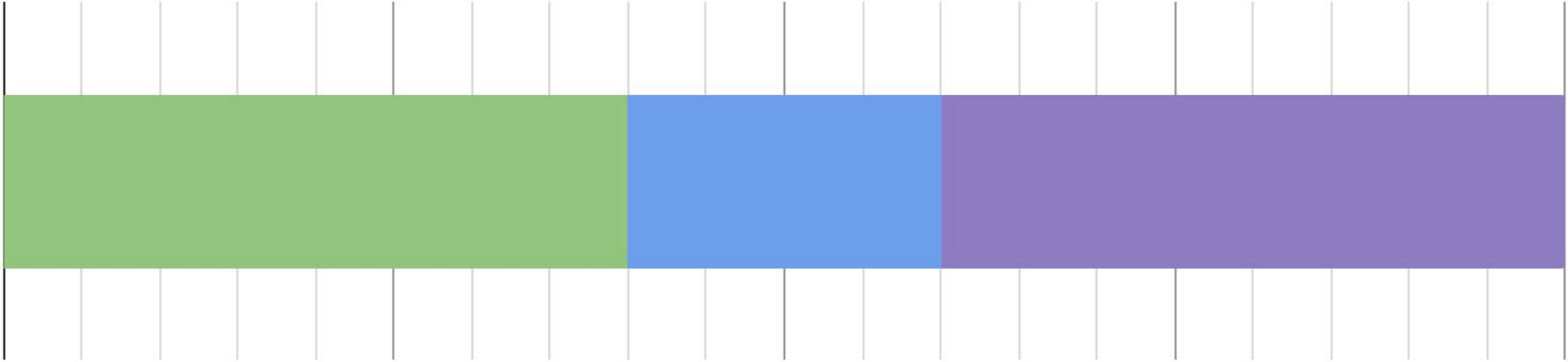
21.4%

5

# Spanish

Enrollment: 5

	Hanover	State	Global	Historical
Average Score	4.00	3.90	3.86	3.63
Scores 3+	100.0%	91.8%	90.1%	90.6%



0.0%

1

0.0%

2

40.0%

3

20.0%

4

40.0%

5

# Studio Art - 3D Design

Enrollment: 3

Average Score

Hanover

3.00

State

3.32

Global

3.18

Historical

2.75

Scores 3+

100.0%

83.8%

75.6%

63.9%



0.0%

1

0.0%

2

100.0%

3

0.0%

4

0.0%

5

# Studio Art - Drawing

Enrollment: 4

Average Score

Hanover

3.50

State

3.66

Global

3.59

Historical

3.35

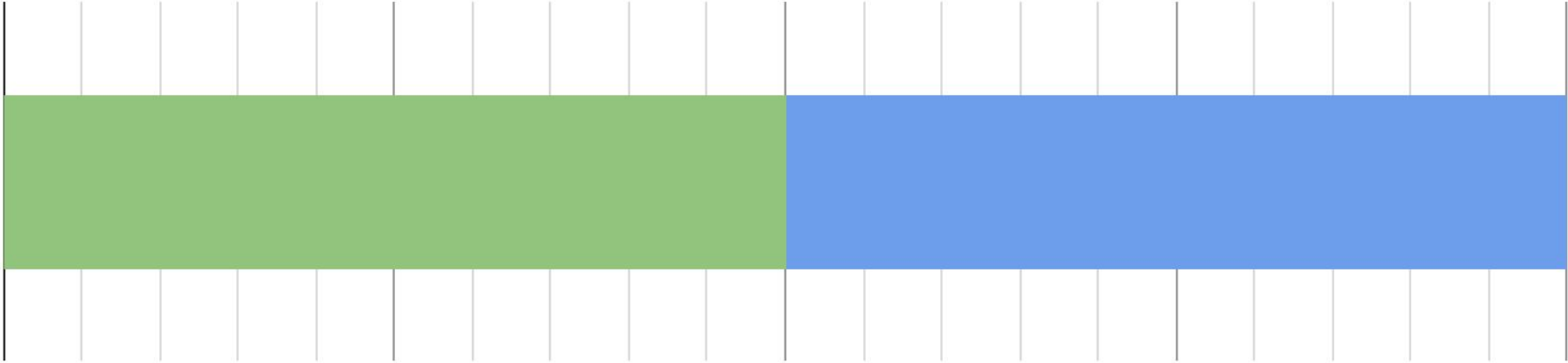
Scores 3+

100.0%

92.1%

89.1%

85.5%



0.0%

1

0.0%

2

50.0%

3

50.0%

4

0.0%

5

# US Government

Enrollment: 12

Average Score

Hanover

2.92

State

3.16

Global

2.85

Historical

3.06

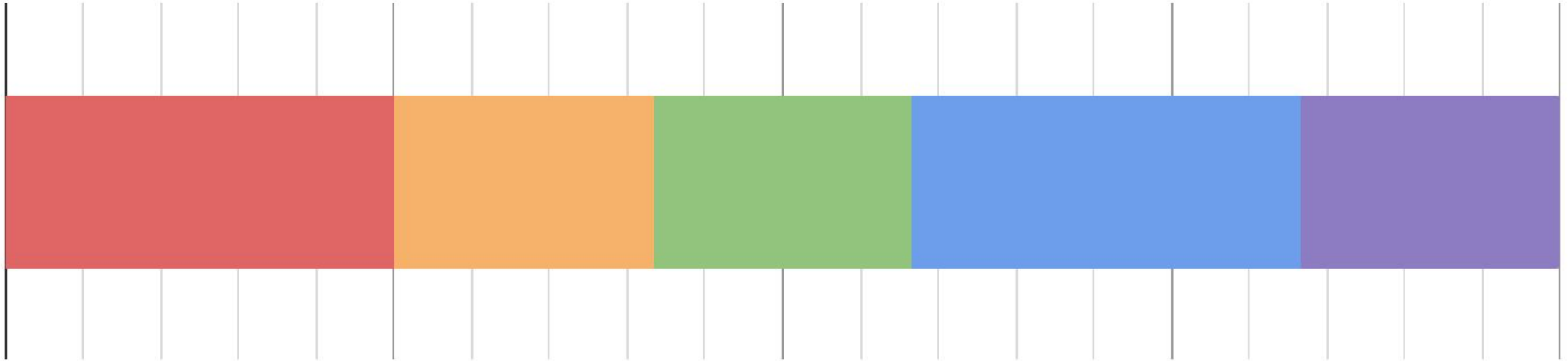
Scores 3+

58.3%

67.9%

57.6%

62.6%



25.0%

1

16.7%

2

16.7%

3

25.0%

4

16.7%

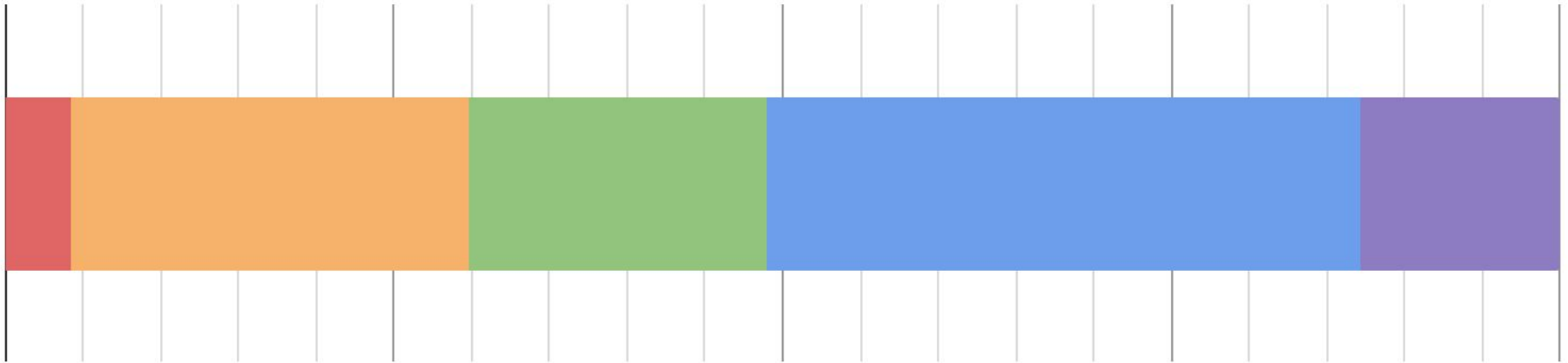
5



# US History

Enrollment: 47

	Hanover	State	Global	Historical
Average Score	3.30	3.29	2.83	3.23
Scores 3+	70.2%	74.1%	58.8%	71.4%



4.3%

1

25.5%

2

19.1%

3

38.3%

4

12.8%

5

# World History

Enrollment: 56

Average Score

Hanover

3.36

State

3.39

Global

2.87

Historical

3.53

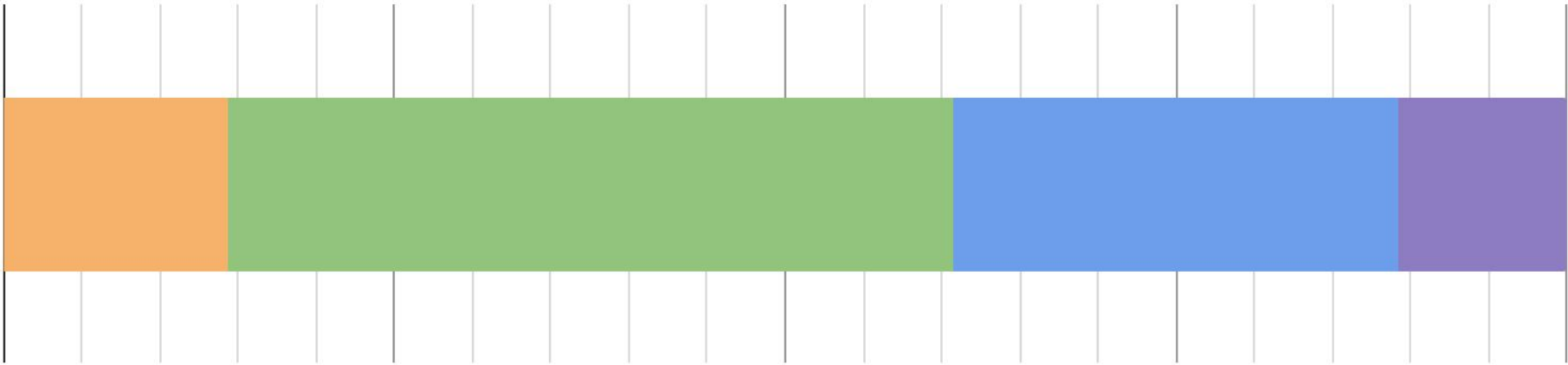
Scores 3+

85.7%

77.3%

60.0%

89.2%



0.0%

1

14.3%

2

46.4%

3

28.6%

4

10.7%

5

# 3a.

## SAT - Overview

- SAT: Scholastic Aptitude Test
- Administered throughout the year
- Scoring: 1600 total points
  - 800 in Evidence-based Reading and Writing
  - 800 in Mathematics
  - No penalty for a wrong answer
- 5 Sections, from 25 to 65 minutes each
- SAT takes about 3 hours to complete

# 3b.

## SAT - Results

### Exam Results from 2018-2019 and 2019-2020

- Total Score
  - Evidenced-based Reading and Writing
  - Mathematics

# SAT Results by School Year

	2017-2018 (273)			2018-2019 (265)			2019-2020 (150)			2020-2021 (89)*		
	Total	ERW	Math	Total	ERW	Math	Total	ERW	Math	Total	ERW	Math
<b>Hanover</b>	<b>1090</b>	<b>551</b>	<b>547</b>	<b>1106</b>	<b>559</b>	<b>547</b>	<b>1129</b>	<b>568</b>	<b>561</b>	<b>1155</b>	<b>578</b>	<b>577</b>
<b>State</b>	<b>1102</b>	<b>550</b>	<b>552</b>	<b>1098</b>	<b>548</b>	<b>550</b>	<b>1112</b>	<b>555</b>	<b>557</b>			
<b>Global</b>	<b>1067</b>	<b>536</b>	<b>531</b>	<b>1059</b>	<b>531</b>	<b>528</b>	<b>1051</b>	<b>528</b>	<b>523</b>			

\* in-progress

# Hanover High School - SAT Score Intervals by Year

