**TO:**       Members of the State Board of Education

**FROM:**    Karen B. Salmon, Ph.D.

**DATE:**    March 23, 2021

**SUBJECT:**  2020 Advanced Placement (AP) and SAT results

## PURPOSE:

To present the State Board of Education with 2020 data on student participation and success on Advanced Placement (AP) exams and the SAT.

## EXECUTIVE SUMMARY:

Data to be presented will include:
1. Advanced Placement data:
   a. Class of 2020 and previous years, student participation and success
   b. Test year 2020 and previous years (all exams taken in 2020), student participation and success
   c. Data disaggregated by student group
2. SAT data:
   a. SAT data by graduation year, 2020 and previous years
   b. Data disaggregated by student group
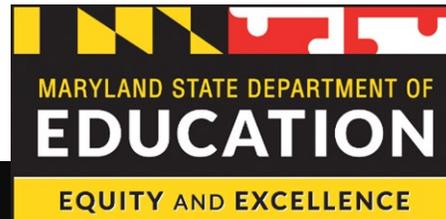
## ACTION:

Information for discussion.

## ATTACHMENTS:

None

# 2020 Advanced Placement (AP) and SAT Results

Maryland State Board of Education
March 23, 2021

# Advanced Placement (AP) Data Sources

- College Board released the "AP Cohort Data Report: Graduating Class of 2020" on February 24, 2021.

  - College Board data represents the "Class of 2020," as reported by the student to College Board.

  - Students in the Class of 2020 may have taken an AP exam at any point in high school prior to their anticipated graduation date.

  - In some cases, College Board counts are combined with MDSE data to increase accuracy. All data sources are noted.

- AP and SAT data is available on MDReportCard.org

  - Administrative data includes all exams taken in a given year, regardless of the grade level of the student.

# Maryland Advanced Placement Data: Current Year and Trends

| Graduating class* | Percent of graduates scoring 3 or higher on at least one AP exam in high school* | Exam administrative year** | Number of exams taken** | Average number of exams per test taker** | Percent of AP exams scoring 3 or higher** |
|---|---|---|---|---|---|
| Class of 2020 | 31.5% | All exams taken in 2020 | 104,982 | 1.85 | 69.4% |
| Class of 2019 | 31.5% | All exams taken in 2019 | 108,242 | 1.87 | 66.7% |
| Class of 2018 | 31.6% | All exams taken in 2018 | 110,723 | 1.89 | 65.4% |
| Class of 2017 | 31.2% | All exams taken in 2017 | 110,970 | 1.89 | 63.1% |
| Class of 2016 | 30.3% | All exams taken in 2016 | 108,577 | 1.90 | 62.2% |
| Class of 2010 | 25.6% | All exams taken in 2010 | 89,528 | 1.86 | 60.0% |

*Data source: College Board. Note: College Board calculates percentages using WICHE graduation projections. Numbers on this slide have not been adjusted to account for the actual number of Maryland graduates, to preserve the comparison between Maryland and national statistics. Adjusted numbers are presented on subsequent slides.

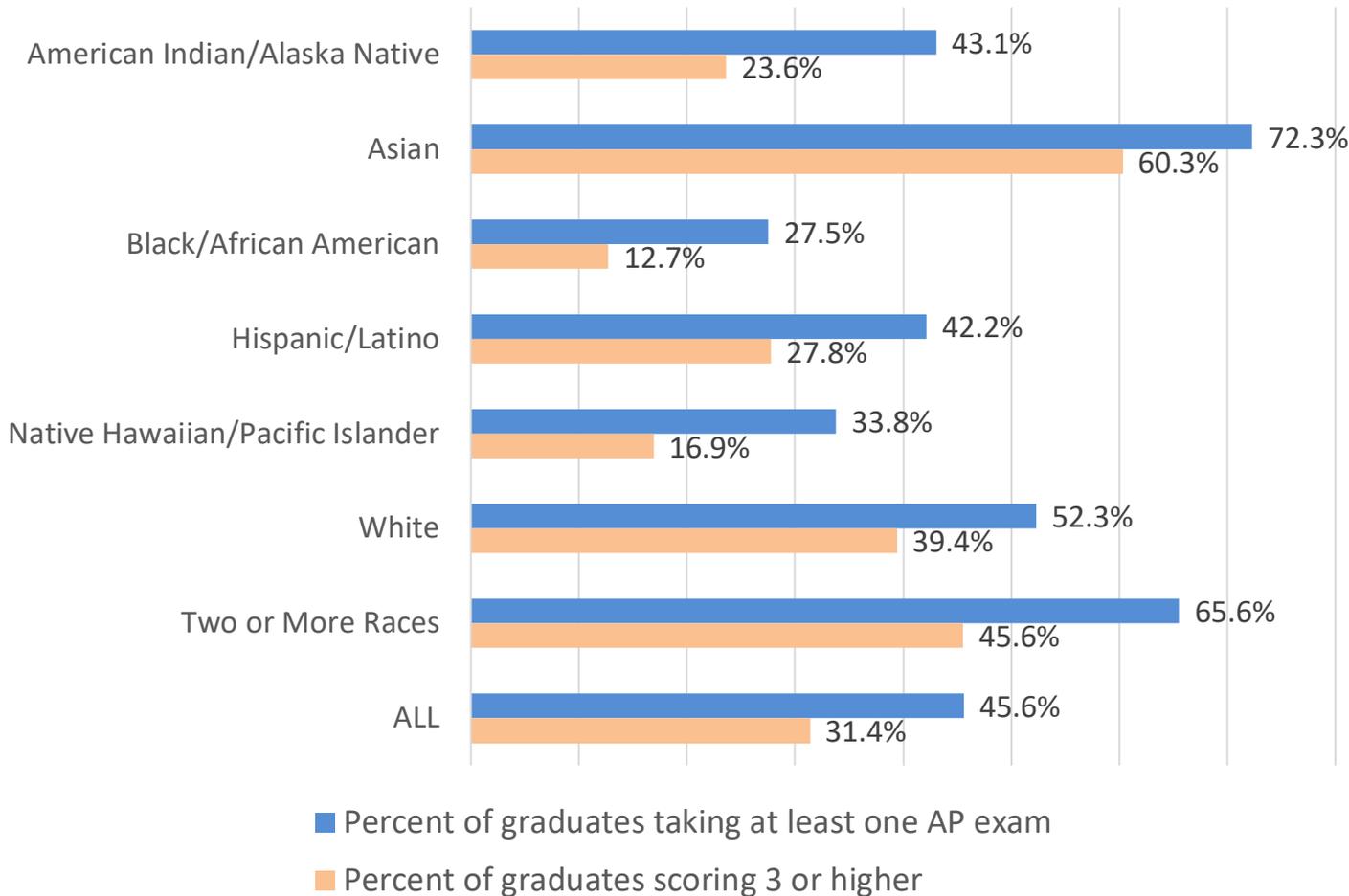**Data source: Maryland State Department of Education

# Comparison: Maryland and National Advanced Placement Cohort Data

| | Class of 2009 | Class of 2014 | Class of 2018 | Class of 2019 | Class of 2020 |
|---|---|---|---|---|---|
| **PARTICIPATION: MARYLAND** Percent of Maryland graduates who took at least one AP exam during high school | 39.5% | 48.4% | 49.1% | 46.9% | 45.8% |
| **PARTICIPATION: United States** Percent of national graduates who took at least one AP exam during high school | 26.1% | 33.2% | 38.9% | 38.9% | 38.3% |
| **SUCCESS: MARYLAND** Percent of Maryland graduates who achieved a score of 3 or higher on at least one exam | 24.6% | 30.3% | 31.6% | 31.5% | 31.5% |
| **SUCCESS: United States** Percent of national graduates who achieved a score of 3 or higher on at least one exam | 15.7% | 20.1% | 23.5% | 23.9% | 24.4% |

**Data source: College Board. Note: College Board calculates percentages using WICHE graduation projections. Numbers on this slide have <u>not</u> been adjusted to account for the actual number of Maryland graduates, to preserve the comparison between Maryland and national statistics. Adjusted numbers are presented on subsequent slides.**

# 2020 Advanced Placement Cohort Data by Race/Ethnicity

## Class of 2020



- Percent of graduates taking at least one AP exam
- Percent of graduates scoring 3 or higher

American Indian/Alaska Native: 43.1% / 23.6%
Asian: 72.3% / 60.3%
Black/African American: 27.5% / 12.7%
Hispanic/Latino: 42.2% / 27.8%
Native Hawaiian/Pacific Islander: 33.8% / 16.9%
White: 52.3% / 39.4%
Two or More Races: 65.6% / 45.6%
ALL: 45.6% / 31.4%

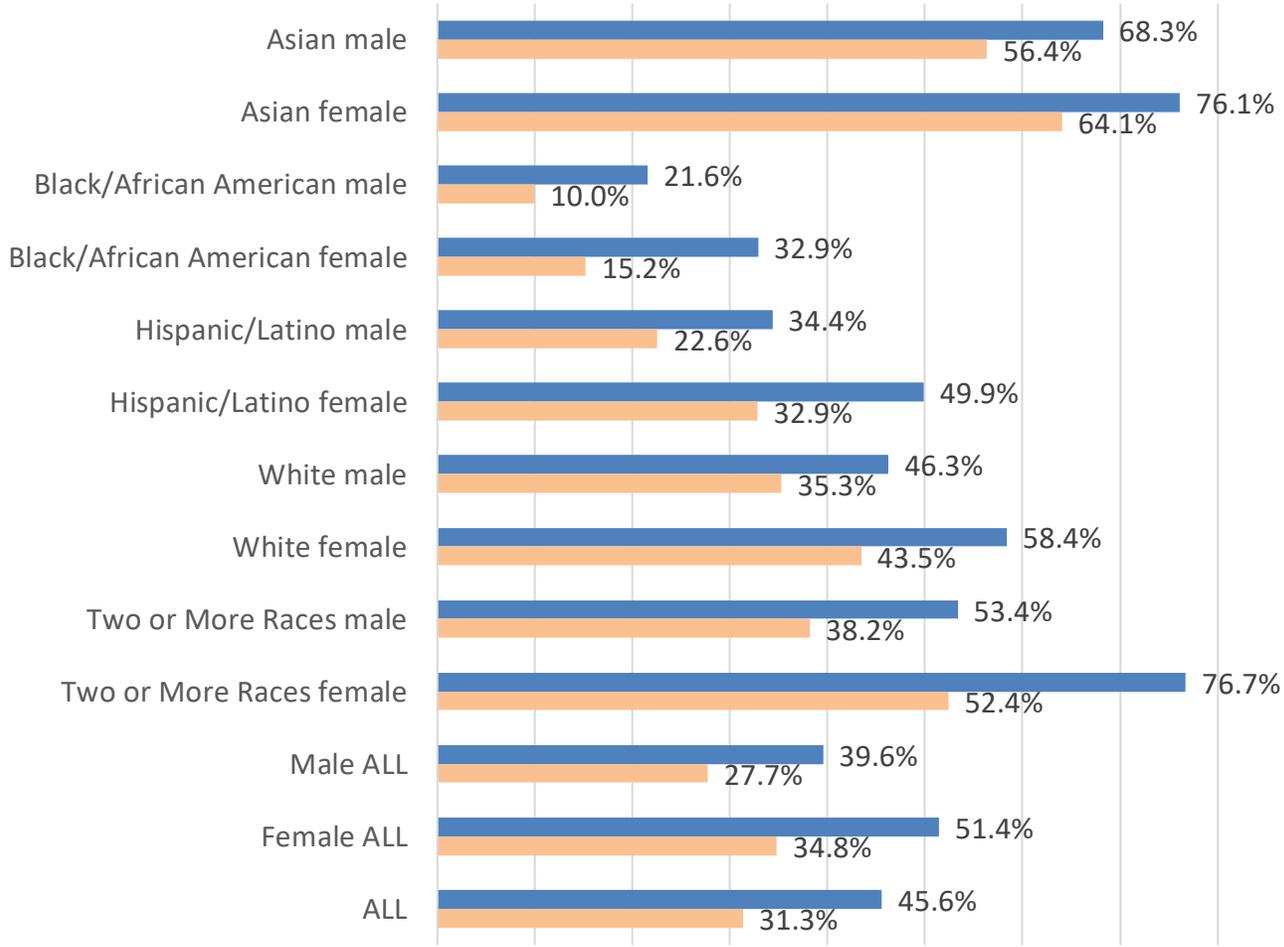| Group | Number of graduates taking at least one AP exam* | Number of graduates scoring 3 or higher* | Number of graduates** |
|---|---|---|---|
| American Indian/AK Native | 62 | 34 | 144 |
| Asian | 3,109 | 2,593 | 4,299 |
| Black/African American | 5,164 | 2,390 | 18,753 |
| Hispanic/Latino | 3,826 | 2,518 | 9,071 |
| Native HI/Pacific Islander | 24 | 12 | 71 |
| White | 12,327 | 9,283 | 23,548 |
| Two or More Races | 1,566 | 1,089 | 2,389 |
| No response | 517 | 367 | |
| ALL | 26,595 | 18,286 | 58,275 |

**Data notes:**
Race/ethnicity and anticipated graduation year are reported by the test-taker to the College Board at the time the exam is taken. Counts are divided by MSDE's actual number of graduates to determine percentages.

*Source: College Board
**Source: MSDE

# 2020 Advanced Placement Cohort Data by Gender and Race/Ethnicity

## Class of 2020

| Group | Percent of graduates taking at least one AP exam | Percent of graduates scoring 3 or higher |
|---|---|---|
| Asian male | 68.3% | 56.4% |
| Asian female | 76.1% | 64.1% |
| Black/African American male | 21.6% | 10.0% |
| Black/African American female | 32.9% | 15.2% |
| Hispanic/Latino male | 34.4% | 22.6% |
| Hispanic/Latino female | 49.9% | 32.9% |
| White male | 46.3% | 35.3% |
| White female | 58.4% | 43.5% |
| Two or More Races male | 53.4% | 38.2% |
| Two or More Races female | 76.7% | 52.4% |
| Male ALL | 39.6% | 27.7% |
| Female ALL | 51.4% | 34.8% |
| ALL | 45.6% | 31.3% |

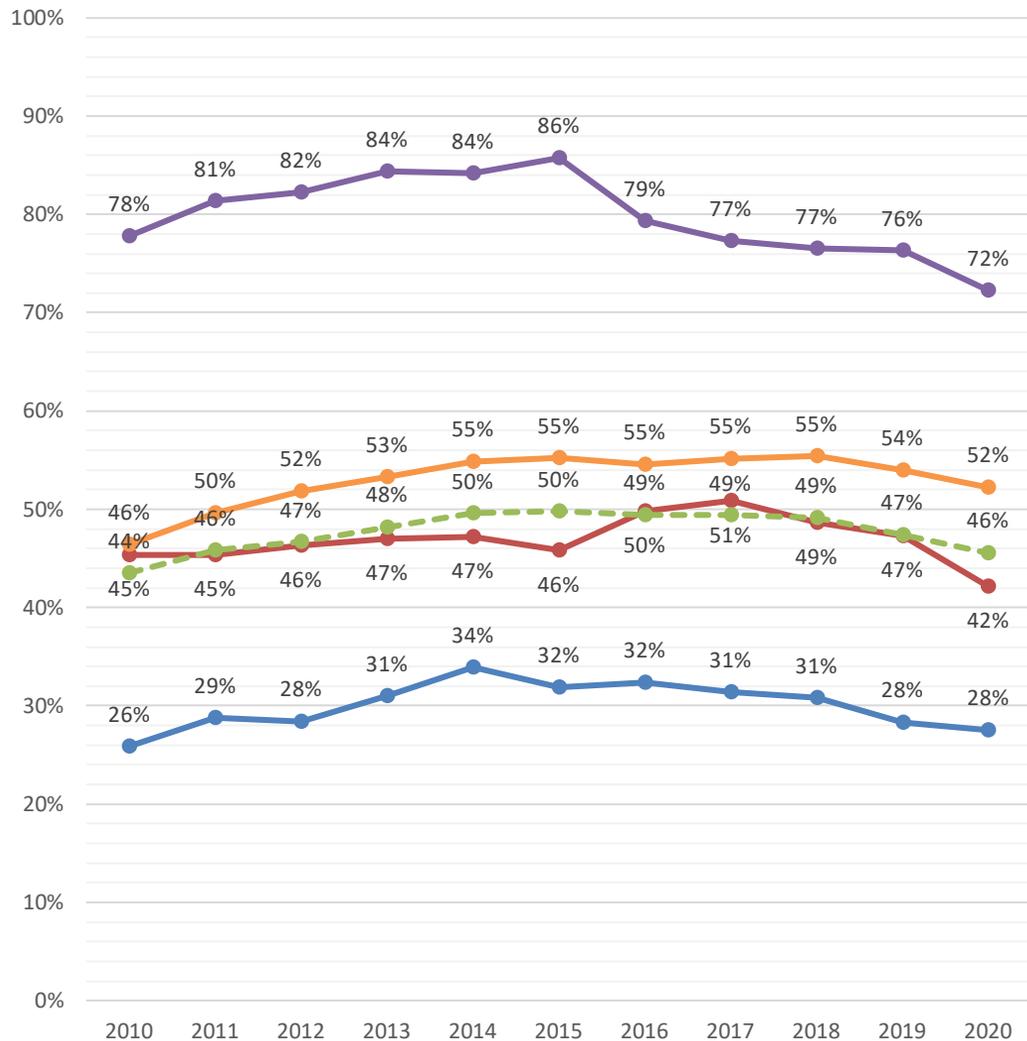| Group | Number of graduates taking at least one AP exam* | Number of graduates scoring 3 or higher* | Number of graduates** |
|---|---|---|---|
| American Indian/AK Native male | 28 | 14 | 69 |
| American Indian/AK Native female | 34 | 20 | 75 |
| Asian male | 1,447 | 1,195 | 2,120 |
| Asian female | 1,659 | 1,396 | 2,179 |
| Black/African American male | 1,917 | 887 | 8,889 |
| Black/African American female | 3,245 | 1,502 | 9,864 |
| Hispanic/Latino male | 1,552 | 1,020 | 4,518 |
| Hispanic/Latino female | 2,272 | 1,496 | 4,553 |
| Native HI/Pacific Islander male | 12 | N < 10 | 43 |
| Native HI/Pacific Islander female | 12 | N < 10 | 28 |
| White male | 5,500 | 4,196 | 11,888 |
| White female | 6,807 | 5,068 | 11,660 |
| Two or More Races male | 612 | 438 | 1,147 |
| Two or More Races female | 953 | 651 | 1,242 |
| Male ALL | 11,342 | 7,955 | 28,674 |
| Female ALL | 15,225 | 10,307 | 29,601 |
| ALL | 26,567 | 18,262 | 58,275 |

Data notes:
Race/ethnicity and anticipated graduation year are reported by the test-taker to the College Board at the time the exam is taken. Counts are divided by MSDE's actual number of graduates to determine percentages.
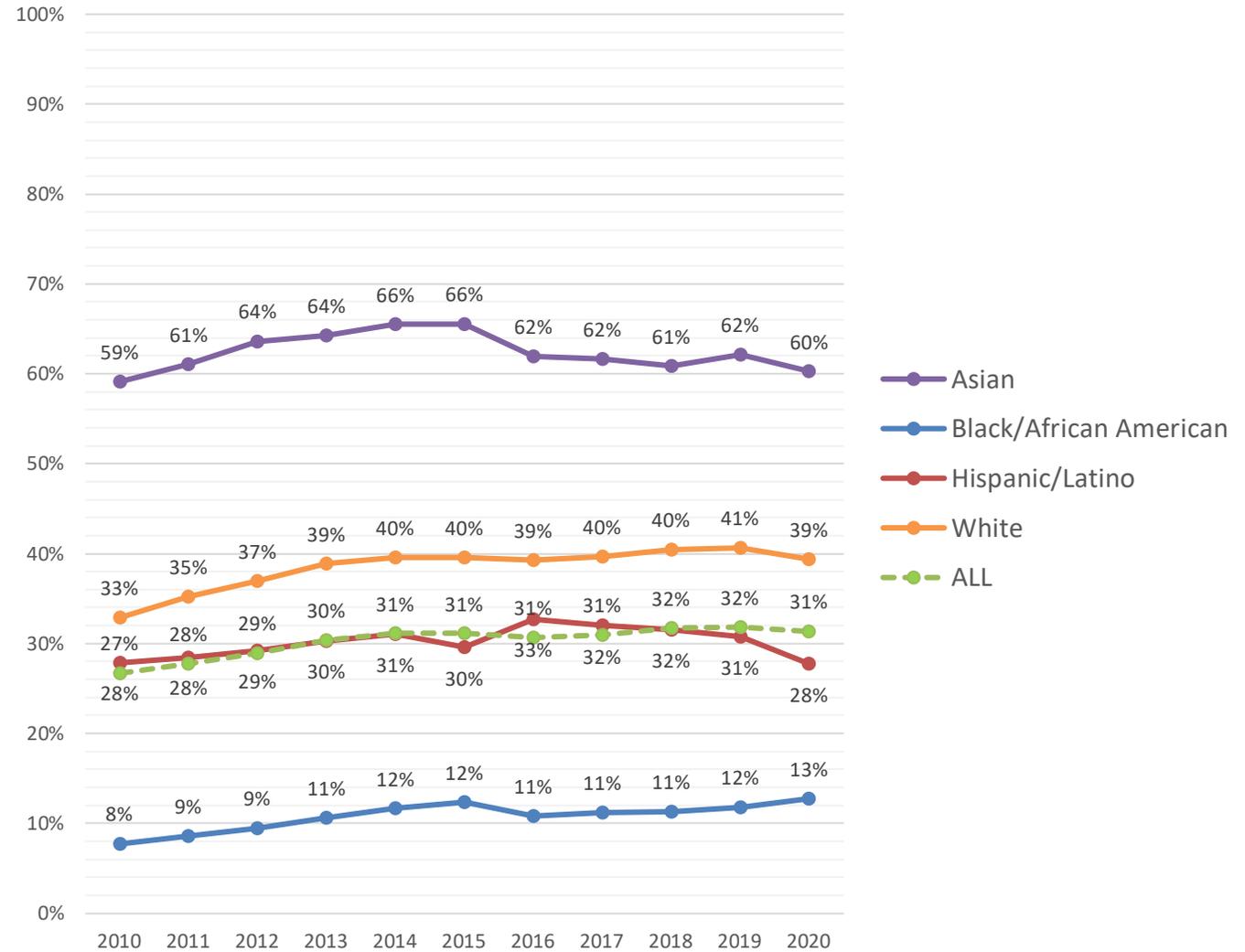
*Source: College Board
**Source: MSDE

Advanced Placement Cohort Trend Data by Race/Ethnicity

Data notes: Race/ethnicity and anticipated graduation year are reported by the test-taker to the College Board at the time the exam is taken. Counts provided by College Board are divided by MSDE's actual number of graduates to determine percentages.

Advanced Placement Cohort Trend Data by Gender and Race/Ethnicity
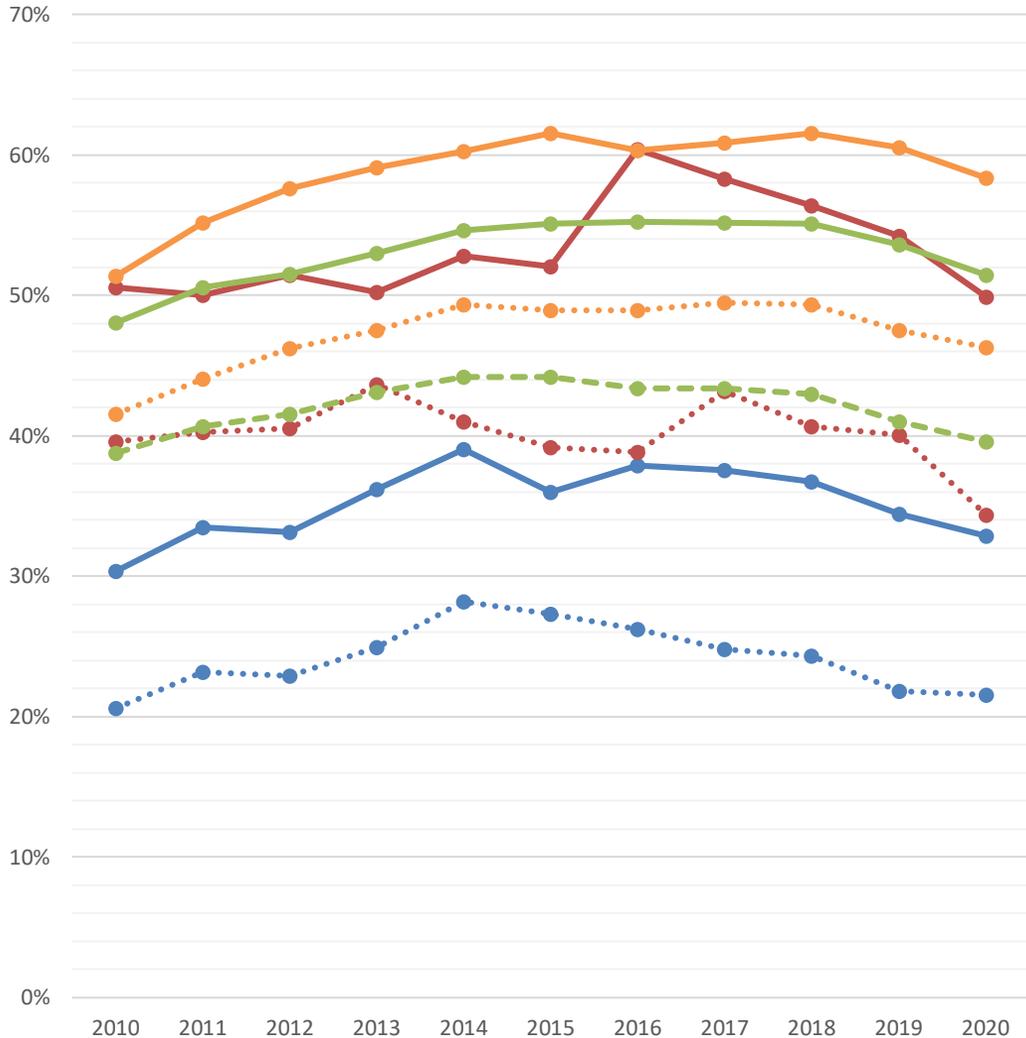
Percent of Graduates Taking at Least One AP in HS

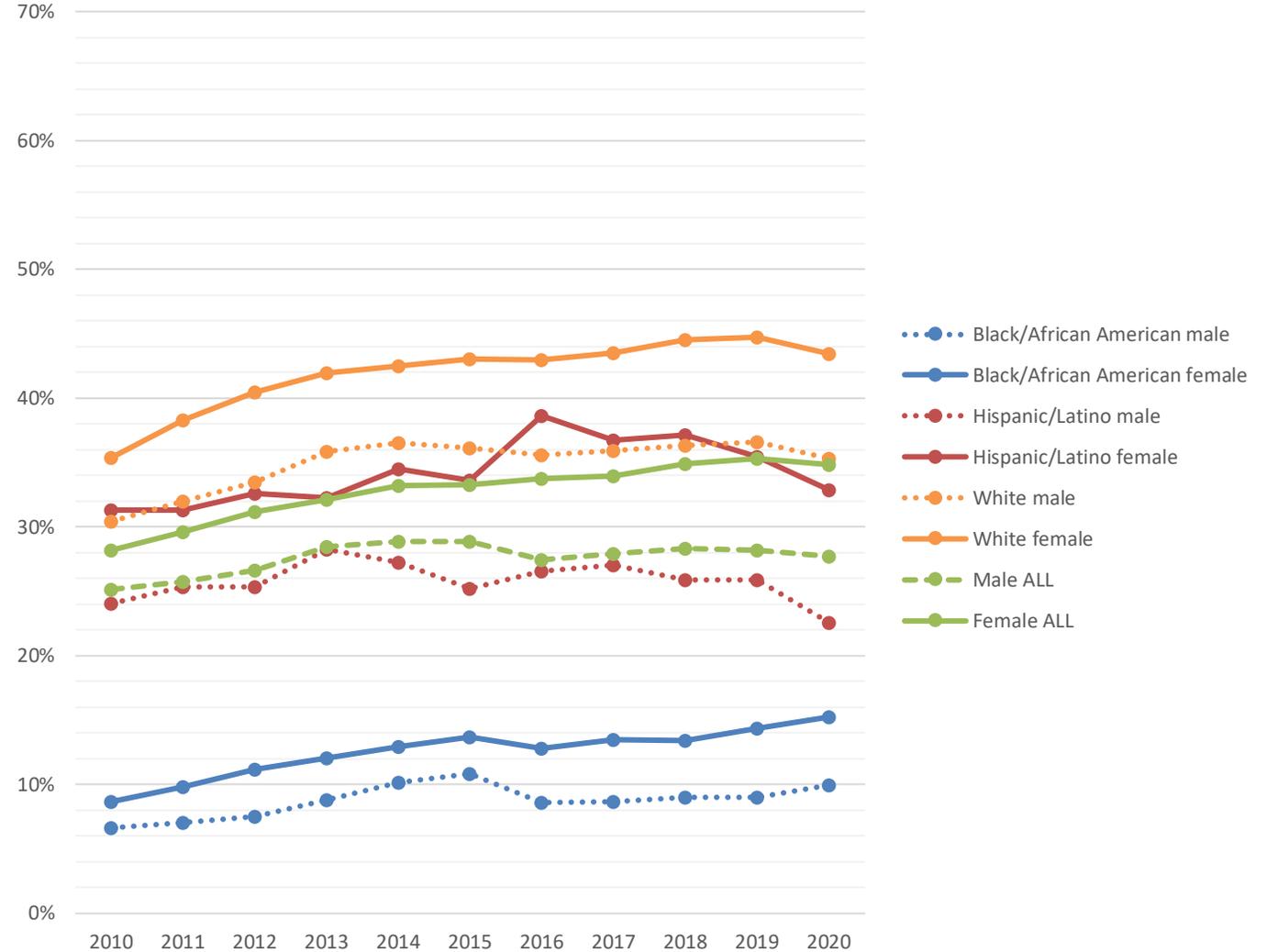Percent of Graduates Passing at Least One AP in HS

Data notes: Race/ethnicity and anticipated graduation year are reported by the test-taker to the College Board at the time the exam is taken. Counts provided by College Board are divided by MSDE's actual number of graduates to determine percentages.

# SAT by Graduation Year: 2020 and Previous Years, Maryland Public School Students ("College Readiness" Reporting)

| Graduation Year | Student Count | Average Evidence-Based Reading and Writing Score | Average Math Score | Average Overall Score |
|---|---|---|---|---|
| 2020 | 46,976 | 523 | 511 | 1035 |
| 2019 | 41,660 | 537 | 528 | 1064 |
| 2018 | 39,248 | 547 | 539 | 1086 |

Source: Maryland State Department of Education
If a student tested more than once, the highest score in each subject is used.
SAT data are based on June high school graduates.

# SAT Data by Student Group: 2020 Graduates and Previous Years ("College Readiness" Reporting)

| | # Tested, 2018 Graduates | Mean Score, 2018 Graduates | # Tested, 2019 Graduates | Mean Score, 2019 Graduates | # Tested, 2020 Graduates | Mean Score, 2020 Graduates |
|---|---|---|---|---|---|---|
| All Students | 39,248 | 1086 | 41,660 | 1064 | 46,976 | 1035 |
| American Indian or Alaska Native | 95 | 1061 | 87 | 1004 | 112 | 988 |
| Asian | 3,492 | 1248 | 3,685 | 1237 | 3,903 | 1234 |
| Black or African American | 13,526 | 966 | 14,266 | 947 | 15,674 | 929 |
| Hispanic/Latino of any race | 3,661 | 1025 | 4,751 | 978 | 6,806 | 926 |
| Native HI or Other Pacific Islander | 43 | 1039 | 50 | 1015 | 61 | 1054 |
| White | 16,876 | 1159 | 17,142 | 1144 | 18,511 | 1117 |
| Two or more races | 1,555 | 1127 | 1,679 | 1115 | 1,909 | 1079 |
| Students with Disabilities | 1,629 | 860 | 1,924 | 828 | 2,788 | 802 |
| English Learner | 472 | 820 | 979 | 778 | 1,861 | 748 |
| Economically Disadvantaged | 4,504 | 926 | 5,080 | 901 | 6,859 | 887 |
| Male | 18,172 | 1095 | 19,570 | 1065 | 22,343 | 1031 |
| Female | 21,076 | 1078 | 22,090 | 1063 | 24,633 | 1038 |

**Source: Maryland State Department of Education**
**If a student tested more than once, the highest score in each subject is used.**
**SAT data are based on June high school graduates.**

# SAT Data by Race/Ethnicity and Gender: 2020 Graduates and Previous Years ("College Readiness" Reporting)

| | # Tested, 2018 Graduates | Mean Score, 2018 Graduates | # Tested, 2019 Graduates | Mean Score, 2019 Graduates | # Tested, 2020 Graduates | Mean Score, 2020 Graduates |
|---|---|---|---|---|---|---|
| American Indian/AK Native female | 52 | 1051 | 52 | 1007 | 54 | 974 |
| American Indian/AK Native male | 43 | 1073 | 35 | 1000 | 58 | 1002 |
| Asian female | 1,742 | 1238 | 1,865 | 1237 | 2,013 | 1233 |
| Asian male | 1,750 | 1257 | 1,820 | 1237 | 1,890 | 1235 |
| Black or African American female | 7,508 | 971 | 7,770 | 956 | 8,454 | 942 |
| Black or African American male | 6,018 | 960 | 6,496 | 937 | 7,220 | 915 |
| Hispanic/Latino female | 2,053 | 1014 | 2,538 | 977 | 3,574 | 931 |
| Hispanic/Latino male | 1,608 | 1038 | 2,213 | 980 | 3,232 | 920 |
| Native HI/Other Pacific Islander female | 27 | 1057 | 29 | 1044 | 23 | 1013 |
| Native HI/Other Pacific Islander male | 16 | 1008 | 21 | 974 | 38 | 1079 |
| White female | 8,856 | 1150 | 8,926 | 1139 | 9,481 | 1117 |
| White male | 8,020 | 1168 | 8,216 | 1148 | 9,030 | 1117 |
| Two or more races female | 838 | 1113 | 910 | 1120 | 1,034 | 1079 |
| Two or more races male | 717 | 1143 | 769 | 1110 | 875 | 1079 |
| All female | 21,076 | 1078 | 22,090 | 1063 | 24,633 | 1038 |
| All male | 18,172 | 1095 | 19,570 | 1065 | 22,343 | 1031 |

**Source: Maryland State Department of Education**
**If a student tested more than once, the highest score in each subject is used.**
**SAT data are based on June high school graduates.**

# SAT Cohort Data: Class of 2020 and Previous Years, Public School Students (College Board Reporting)

| | 2017 Cohort | 2018 Cohort | 2019 Cohort | 2020 Cohort |
|---|---|---|---|---|
| Participation: MARYLAND | 36,459 | 40,639 | 43,587 | 49,365 |
| Overall mean score: MARYLAND | 1046 | 1066 | 1041 | 1012 |
| Overall mean score: United States | 1044 | 1049 | 1039 | 1030 |
| Evidence-Based Reading and Writing mean score: MARYLAND | 528 | 538 | 526 | 513 |
| Evidence-Based Reading and Writing mean score: United States | 527 | 529 | 524 | 520 |
| Mathematics mean score: MARYLAND | 518 | 528 | 515 | 499 |
| Mathematics mean score: United States | 517 | 520 | 515 | 510 |

Source: College Board State and District Integrated Report. The statistics presented here are published by the College Board in the year indicated. College Board may publish adjusted student counts in subsequent annual reports.
All data are for public school students only. If a student tested more than once, the most recent score is used.