## AP

## AP' Cohort Data Report

## GRADUATING CLASS OF 2019



## About the Data

This report represents only U.S. public school students because there is no central source of enrollment and demographic data available for nonpublic schools for all states. References to the total number of high school graduates represent projections supplied in Knocking at the College Door (Western Interstate Commission for Higher Education, 2016).

This report looks at students' entire experience with AP®-including all AP Exams taken by members of the class of 2019 throughout their time in high school-rather than reporting exam results from only one particular school year.

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## The Promise of AP

Founded on the belief that motivated high school students should be able to work at the height of their abilities and that achievement exams could be used to allow students to enter college with advanced standing, the Advanced Placement ${ }^{\oplus}$ Program (AP®) set out to develop assessments that colleges would find rigorous enough to use as the basis for granting credit, placement, or both.

Since the AP Program's inception in 1955-56, AP has delivered on the promise of connecting students to college and opportunity by offering colleges and universities the most valid and reliable way to assess collegelevel learning by high school students. The AP community-educators, administrators, and policymakers-works to offer high school students a chance to stand out in college admission, earn college credits, advance into higher-level courses, and build college skills. Today colleges and universities turn to AP to help them identify and reward students who have succeeded in mastering challenging college-level content and skills. In addition, AP credit allows students the flexibility to pursue a double major, add a minor, and study abroad.

More schools participate in AP than ever before. Ten years ago, 17,374 schools participated in AP across the country and around the world. In 2019, that number grew to 22,678.


## A Path to Success from Day One to Exam Day

At the start of the 2019-20 school year, AP students, teachers, and coordinators received access to a system of resources and supports that enhance the overall AP experience, from day one through exam day. These powerful new classroom resources help teachers and students get more from AP courses year-round-practice, meaningful feedback, and individualized support for students earlier in the year.


## Plan your course

UNIT GUIDES
These planning guides outline all required course content and skills, organized into commonly taught units. Each unit guide suggests a sequence and pacing of content, scaffolds skill instruction across units, and organizes content into topics.

## Check for

 understandingTOPIC QUESTIONS
These questions enable teachers to check for understanding as each topic and skill is taught. Teachers can create custom quizzes to assign in AP Classroom as homework or in class, either on computers or mobile devices, or on paper.


## Feedback on strengths and gaps

## PERSONAL PROGRESS CHECKS

Formative AP questions are provided for every unit to give students feedback on the areas where they need to focus.
Available online, Personal Progress Checks measure knowledge and skills through multiplechoice questions with rationales explaining correct and incorrect answers and free-response questions with scoring guidelines.

## Highlight progress

PROGRESS DASHBOARD
This dashboard allows teachers to review class and individual student progress throughout the year. Class trends are identified to give teachers insight on where students are struggling with content and skills that will be assessed on the AP Exam. Students can view their ongoing progress to improve their performance before the AP Exam.

## Prepare for the AP Exam

AP QUESTION BANK
This online library of real AP Exam questions provides teachers with secure and released questions to use in classrooms for exam preparation later in the school year. Questions are indexed by course topic and skills so teachers can customize tests and give students more practice and feedback.

## Instructional Model

Integrating AP resources throughout the course helps students develop the content knowledge and skills they need to succeed on the AP Exam.

Here are ways AP teachers can incorporate AP resources into the classroom year-round:

## Plan

Before beginning instruction on a unit, teachers may choose to adopt the following approaches:

- Review the overview at the start of each unit guide in the AP course and exam description (CED) to identify essential questions, relevant course content, and skills.
- Use the Unit at a Glance table in the CED to identify related topics that build toward common understanding, and then determine the appropriate pacing for students.
- Identify strategies in the Instructional Approaches section of the CED to teach content and skills.


## Teach

In classroom instruction, teachers can use the AP resources to build students' knowledge of content and mastery of skills.

- Use the unit guides to identify the required content.
- Integrate the content with a skill and consider scaffolding, where appropriate.
- Employ any of the instructional strategies identified from the Instructional Approaches section.
- Use the resources listed in the unit guides to bring more teaching tools into the classroom.


## Assess

Measuring student understanding of the content and skills covered in each unit enables teachers to provide actionable feedback to students.

- Use AP Classroom at the end of a unit to assign students online Personal Progress Checks to be completed in class or at home.
- Provide students with question-level feedback through answer rationales, as well as unit- and skill-level feedback, using the Progress Dashboard.
- Create practice opportunities for students using the AP Question Bank, and assign them through AP Classroom toward the end of the school year.


## Integrated Digital Experience

AP teachers and students began the 2019-20 school year by completing a simple activation process to open access to all AP resources. This process gathered students' exam registration information online, which eliminates most answer sheet bubbling that previously consumed valuable testing time.

Once teachers and students are logged in to their personalized home pages at My AP (myap.collegeboard.org), they can access the new resources.

My AP FOR TEACHERS My AP FOR STUDENTS


For teachers, AP Classroom includes unit tabs for every unit highlighting relevant resources aligned to the CED. Unit Guide links provide easy access to instructional strategies and details, while Topic links, if relevant to a course, provide more details and resources. In addition, skills are color-coded, enabling teachers to easily spiral instruction across units.


Teacher view of AP Classroom
Digital activation not only saves teachers and students time accessing the resources and feedback detailed above, it also facilitates these AP processes:
Streamlined exam ordering-Exam orders are now easily created by AP coordinators from the same online class rosters that enable students to access AP resources. The coordinator simply reviews, updates, and submits this information as the school's exam order in the fall.

Student registration labels-Schools receive a set of personalized AP ID registration labels for each student included in an exam order, which replaces the previously used AP student pack. Each student's unique AP ID connects their exam materials with the registration information they provided during digital activation. This eliminates the need for preadministration sessions and reduces time spent bubbling on exam day.

Targeted Instructional Planning Reports-AP teachers automatically receive Instructional Planning Reports (IPRs) that include data on each of their class sections. This ends reliance on special codes optionally bubbled in on exam day.

## Statewide AP Credit Policies

The opportunity to earn college credit is a key benefit of AP. Students can save time, money, and get a head start on their education when they enter college with credit they deserve through AP.

A record number of state higher education systems have adopted uniform policies on AP credit. Over the past five years, adoption of statewide credit policies has more than doubled. As of fall 2019, 31 states have implemented statewide or systemwide AP credit policies, which typically require all public higher education institutions to award credit for AP Exam scores of 3 or higher. AP policies that grant credit for scores of 3 have grown $11 \%$ since 2015 , and the number of policies for credit overall has grown $8 \%$, with both trends largely attributable to state and system policies.


[^0]
## National Highlights for the Class of 2019

- 1,245,527 students in the class of 2019 took 4,269,670 AP Exams in public high schools nationwide.
- 38.9\% of the class of 2019 took at least one AP Exam during high school, and 23.9\% of the graduating class scored a 3 or higher on at least one AP Exam.
- Over the past 10 years, the percentage of U.S. public high school graduates scoring a 3 or higher on at least one AP Exam has risen by 8.2 percentage points.
- Some traditionally underrepresented students-including black/African American and American Indian/Alaska Native students-continue to need increased access and support to succeed in AP.
- In the class of 2019, AP Exam fee reductions were used by 30.7\% of total AP Exam takers and 26.2\% of AP Exam takers scoring a 3 or higher on at least one AP Exam.



## The Best Measure of Success

This report offers a measure of participation and performance that shows success on the AP Exam within the overall context of equity and access.

The measure, shown in Figure 1, represents the percentage of students in the nation and in states who had taken at least one AP Exam resulting in an AP Exam score of 3 or higher. Schools receive similar information in their score reports, which they use to compare their own AP success to what is happening in their state and across the nation.

This percentage shows the proportion of the overall population-beyond just students in AP classes-that demonstrated college-level mastery of an AP experience sometime in high school. Educators and policymakers can use this measure to gauge the overall success of their student population in high school advanced academics

Each student who scores a 3 or higher only "counts" once toward the overall percentage, regardless of how many AP Exams they take. As a result, this metric fosters inclusivity and measures the extent to which a greater proportion of the population is receiving preparation for, and access to, an AP experience.


## National AP Participation and Performance

Every year, more students participate and succeed in AP. Over the past 10 years, the percentage of U.S. public high school graduates who took an AP Exam during high school has increased, as has the percentage of U.S. public high school graduates who scored a 3 or higher on at least one AP Exam.

- 1,245,527 (38.9\%) of U.S. public high school graduates in the class of 2019 took at least one AP Exam, up from 793,300 (26.1\%) in the class of 2009.
- 764,702 (23.9\%) of those graduates scored a 3 or higher on an AP Exam, up from 477,883 (15.7\%) in the class of 2009.

These increases reflect the hard work of teachers and students, as well as a commitment from states and districts, to provide students with greater access to academic opportunities.

- Figure 1 shows the percentage of U.S. public high school students in the class of 2019 who scored a 3 or higher on an AP Exam during high school, by state. These data show the degree to which students are participating in AP Exams and achieving success.
- Figures $\mathbf{2 a}$ and $\mathbf{2 b}$ reveal the progress states have made over 1, 3,5, and 10 years toward ensuring their students have the opportunity and preparation to succeed in AP.
- Figure 3 shows the score distributions, by state, for AP Exams taken by public high school students in the class of 2019 throughout high school.

FIGURE 1
Percentage of the Class of 2019 Scoring a 3 or Higher on an AP Exam During High School



FIGURE 2A
1-Year, 3-Year, 5-Year, and 10-Year Change in the Percentage of Graduates Scoring a 3 or Higher on an AP Exam During High School, by State, Ranked by the 10-Year Percentage-Point Change

|  | Change |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 1-year | 3-year | 5-year | 10-year |
| Massachusetts | 0.9 | 2.9 | 5.9 | 13.0 |
| District of Columbia | 0.1 | 5.9 | 7.8 | 12.3 |
| Florida | 0.6 | 2.8 | 5.6 | 12.2 |
| Illinois | 1.1 | 3.4 | 6.3 | 12.1 |
| Rhode Island | 0.2 | 3.9 | 6.1 | 11.6 |
| New Jersey | 0.6 | 3.1 | 5.3 | 11.2 |
| Nevada | 1.0 | 3.3 | 7.7 | 10.6 |
| California | 0.7 | 3.6 | 6.8 | 10.4 |
| Connecticut | 0.3 | 2.4 | 3.6 | 10.3 |
| Indiana | -0.1 | 1.9 | 3.2 | 9.8 |
| Hawaii | 0.7 | 2.4 | 5.3 | 9.5 |
| Wisconsin | 0.1 | 1.4 | 3.2 | 9.3 |
| Colorado | 0.9 | 2.3 | 4.3 | 9.2 |
| Michigan | 0.2 | 1.5 | 2.7 | 8.3 |
| New York | 0.3 | 1.8 | 3.7 | 8.2 |
| UNITED STATES | 0.4 | 2.0 | 3.8 | 8.2 |
| Minnesota | 0.1 | 0.8 | 2.0 | 7.9 |
| Kentucky | -0.4 | 0.5 | 1.8 | 7.8 |
| Pennsylvania | 0.4 | 1.6 | 3.5 | 7.6 |
| Washington | 0.5 | 1.5 | 3.6 | 7.6 |
| Arizona | 0.6 | 2.2 | 3.9 | 7.5 |
| Texas | 0.6 | 2.2 | 4.0 | 7.4 |
| Alabama | 0.3 | 1.6 | 3.4 | 7.3 |
| Oregon | 0.9 | 1.9 | 4.2 | 7.2 |
| Ohio | 0.5 | 1.4 | 2.3 | 7.1 |
| Maryland | -0.1 | 1.2 | 1.2 | 6.9 |
| South Carolina | 0.4 | 1.6 | 3.0 | 6.9 |
| Georgia | 0.0 | 0.9 | 3.0 | 6.7 |
| Arkansas | -0.1 | 1.1 | 2.2 | 6.6 |
| North Dakota | 0.6 | 3.0 | 3.8 | 6.4 |
| Louisiana | 0.3 | 1.6 | 3.4 | 5.9 |
| Tennessee | 0.9 | 2.0 | 3.6 | 5.9 |
| Delaware | -0.2 | 0.7 | 2.0 | 5.6 |
| Missouri | 0.4 | 1.2 | 2.6 | 5.6 |
| Vermont | 0.0 | 1.3 | 0.1 | 5.5 |
| Virginia | 0.3 | 0.5 | 1.1 | 5.5 |
| New Hampshire | 0.0 | 0.6 | 2.5 | 5.4 |
| Utah | 0.0 | 1.2 | 1.3 | 5.4 |
| Maine | 0.5 | 0.2 | 0.5 | 5.3 |
| Wyoming | -0.4 | 0.8 | 2.4 | 4.7 |
| lowa | -0.5 | 0.2 | 1.3 | 4.6 |
| Nebraska | 0.4 | 1.4 | 2.3 | 4.6 |
| North Carolina | -0.1 | 0.8 | 3.2 | 4.5 |
| West Virginia | 0.9 | 1.0 | 2.2 | 4.2 |
| New Mexico | -0.2 | 1.1 | 2.1 | 4.1 |
| Mississippi | 0.7 | 1.5 | 2.6 | 3.2 |
| Montana | 1.0 | 1.0 | 0.5 | 3.2 |
| Alaska | -1.1 | -1.7 | 1.3 | 2.6 |
| Idaho | -0.7 | 0.8 | 1.0 | 2.6 |
| South Dakota | -0.4 | 0.0 | -0.4 | 2.4 |
| Oklahoma | -0.2 | 0.1 | 0.6 | 2.3 |
| Kansas | -0.1 | -0.2 | 0.1 | 1.5 |

## WHAT DO THE DATA SHOW?

## Massachusetts

had a 13.0-point increase over 10 years in the percentage of public high school graduates scoring a 3 or higher on an AP Exam, the highest in the nation.

## District of Columbia

had the largest three-year and fiveyear increases in the percentage of public high school graduates scoring a 3 or higher on an AP Exam.

## Illinois

had the largest one-year increase in the percentage of public high school graduates scoring a 3 or higher on an AP Exam.

## 8.2-point increase

since 2009 in the percentage of U.S. public high school graduates scoring a 3 or higher on an AP Exam.

[^1]
## FIGURE 2B

Percentage of the Classes of 2009, 2014, 2016, 2018, and 2019 Scoring a 3 or Higher on an AP Exam During High School, by State, Ranked by the 10-Year Percentage-Point Change Appearing in Figure 2A

| Percentage of Graduating Class Scoring a 3 or Higher |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2009 | 2014 | 2016 | 2018 | 2019 | WHAT DO THE DATA SHOW? |
| Massachusetts | 20.8 | 27.9 | 30.9 | 32.9 | 33.8 |  |
| District of Columbia | 7.4 | 11.9 | 13.8 | 19.6 | 19.7 |  |
| Florida | 20.1 | 26.7 | 29.5 | 31.7 | 32.3 | Massachusetts |
| Illinois | 16.3 | 22.1 | 25.0 | 27.3 | 28.4 | had the highest percentage of |
| Rhode Island | 10.7 | 16.2 | 18.4 | 22.1 | 22.3 | public high school graduates |
| New Jersey | 18.4 | 24.3 | 26.5 | 29.0 | 29.6 |  |
| Nevada | 15.2 | 18.1 | 22.5 | 24.8 | 25.8 | scoring a 3 or higher on an AP |
| California | 21.7 | 25.3 | 28.5 | 31.4 | 32.1 | Exam in 2016, 2018 , and 2019. |
| Connecticut | 22.2 | 28.9 | 30.1 | 32.2 | 32.5 |  |
| Indiana | 10.2 | 16.8 | 18.1 | 20.1 | 20.0 |  |
| Hawaii | 8.4 | 12.6 | 15.5 | 17.2 | 17.9 |  |
| Wisconsin | 16.9 | 23.0 | 24.8 | 26.1 | 26.2 |  |
| Colorado | 20.0 | 24.9 | 26.9 | 28.3 | 29.2 |  |
| Michigan | 13.0 | 18.6 | 19.8 | 21.1 | 21.3 |  |
| New York | 20.8 | 25.3 | 27.2 | 28.7 | 29.0 |  |
| UNITED STATES | 15.7 | 20.1 | 21.9 | 23.5 | 23.9 |  |
| Minnesota | 15.2 | 21.1 | 22.3 | 23.0 | 23.1 |  |
| Kentucky | 10.3 | 16.3 | 17.6 | 18.5 | 18.1 |  |
| Pennsylvania | 12.2 | 16.3 | 18.2 | 19.4 | 19.8 |  |
| Washington | 16.5 | 20.5 | 22.6 | 23.6 | 24.1 |  |
| Arizona | 10.3 | 13.9 | 15.6 | 17.2 | 17.8 |  |
| Texas | 15.1 | 18.5 | 20.3 | 21.9 | 22.5 |  |
| Alabama | 7.1 | 11.0 | 12.8 | 14.1 | 14.4 |  |
| Oregon | 12.2 | 15.2 | 17.5 | 18.5 | 19.4 |  |
| Ohio | 11.2 | 16.0 | 16.9 | 17.8 | 18.3 |  |
| Maryland | 24.6 | 30.3 | 30.3 | 31.6 | 31.5 |  |
| South Carolina | 13.4 | 17.3 | 18.7 | 19.9 | 20.3 |  |
| Georgia | 16.5 | 20.2 | 22.3 | 23.2 | 23.2 |  |
| Arkansas | 11.4 | 15.8 | 16.9 | 18.1 | 18.0 |  |
| North Dakota | 6.2 | 8.8 | 9.6 | 12.0 | 12.6 |  |
| Louisiana | 3.5 | 6.0 | 7.8 | 9.1 | 9.4 |  |
| Tennessee | 8.0 | 10.3 | 11.9 | 13.0 | 13.9 |  |
| Delaware | 13.8 | 17.4 | 18.7 | 19.6 | 19.4 |  |
| Missouri | 7.0 | 10.0 | 11.4 | 12.2 | 12.6 |  |
| Vermont | 20.2 | 25.6 | 24.4 | 25.7 | 25.7 |  |
| Virginia | 23.3 | 27.7 | 28.3 | 28.5 | 28.8 |  |
| New Hampshire | 15.3 | 18.2 | 20.1 | 20.7 | 20.7 |  |
| Utah | 20.1 | 24.2 | 24.3 | 25.5 | 25.5 |  |
| Maine | 18.2 | 23.0 | 23.3 | 23.0 | 23.5 |  |
| Wyoming | 7.8 | 10.1 | 11.7 | 12.9 | 12.5 |  |
| lowa | 8.6 | 11.9 | 13.0 | 13.7 | 13.2 |  |
| Nebraska | 7.4 | 9.7 | 10.6 | 11.6 | 12.0 |  |
| North Carolina | 16.9 | 18.2 | 20.6 | 21.5 | 21.4 |  |
| West Virginia | 7.7 | 9.7 | 10.9 | 11.0 | 11.9 |  |
| New Mexico | 9.3 | 11.3 | 12.3 | 13.6 | 13.4 |  |
| Mississippi | 4.2 | 4.8 | 5.9 | 6.7 | 7.4 |  |
| Montana | 10.6 | 13.3 | 12.8 | 12.8 | 13.8 |  |
| Alaska | 12.2 | 13.5 | 16.5 | 15.9 | 14.8 |  |
| Idaho | 10.3 | 11.9 | 12.1 | 13.6 | 12.9 |  |
| South Dakota | 10.5 | 13.3 | 12.9 | 13.3 | 12.9 | Raw numbers for this figure are available in the |
| Oklahoma | 9.6 | 11.3 | 11.8 | 12.1 | 11.9 | pendix. States with a tie in the rankings are |
| Kansas | 9.0 | 10.4 | 10.7 | 10.6 | 10.5 |  |

FIGURE 3
Score Distributions of AP Exams Taken by the Class of 2019 During High School, by State

| Score of 1 | - Score of 2 |  |  | Score of 3 |  | $\square$ Score of 4 |  | $\square$ Score of 5 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| State | No.of Exams | \% of Exam Scores* |  |  |  |  |  |  |  |
|  |  | 80\% | 60\% | 40\% 20\% | 0\% | 20\% | 40\% | 60\% | 80\% |
| Alabama | 50,046 |  |  | 33.1 | 28.9 | 21.111 .2 | 5.7 |  |  |
| Alaska | 5,100 |  |  | 12.4 | 28.5 | 28.3 | 19.6 | 11.3 |  |
| Arizona | 64,348 |  |  | 17.9 | 24.6 | 25.7 | 19.01 | 12.8 |  |
| Arkansas | 44,592 |  |  | 35.7 | 29.2 | 19.710 .6 | 4.7 |  |  |
| California | 694,070 |  |  | 18.6 | 23.4 | 24.4 | 19.5 | 14.1 |  |
| Colorado | 82,671 |  |  | 15.3 | 24.0 | 27.1 | 20.7 | 12.9 |  |
| Connecticut | 55,230 |  |  | 13.0 | 19.6 | 26.0 | 23.6 | 17.8 |  |
| Delaware | 9,493 |  |  | 20.9 | 25.6 | 24.6 | 17.311. |  |  |
| District of Columbia | 7,142 |  |  | 39.9 | 22.4 | 17.612 .8 | 7.3 |  |  |
| Florida | 345,278 |  |  | 23.0 | 25.6 | 24.7 | 17.09 .7 |  |  |
| Georgia | 151,193 |  |  | 18.0 | 22.8 | 25.1 | 20.5 | 13.6 |  |
| Hawaii | 10,430 |  |  | 26.3 | 30.5 | 22.8 18 | 3.17 .4 |  |  |
| Idaho | 12,710 |  |  | 13.7 | 26.3 | 28.3 | 20.2 | 11.6 |  |
| Illinois | 207,262 |  |  | 14.9 | 21.3 | 25.5 | 22.1 | 16.2 |  |
| Indiana | 77,983 |  |  | 21.3 | 27.8 | 24.5 | 16.79 .8 |  |  |
| lowa | 18,819 |  |  | 14.3 | 24.7 | 27.6 | 20.1 | 13.4 |  |
| Kansas | 14,503 |  |  | 10.0 | 23.8 | 30.0 |  | 7 13.6 |  |
| Kentucky | 47,985 |  |  | 20.0 | 29.2 | 26.4 | 16.18 .3 |  |  |
| Louisiana | 27,062 |  |  | 35.4 | 26.5 | 20.111 .9 | 6.0 |  |  |
| Maine | 13,899 |  |  | 14.4 | 27.6 | 28.1 | 18.9 |  |  |
| Maryland | 102,309 |  |  | 13.1 | 21.1 | 25.9 | 22.3 | 17.6 |  |
| Massachusetts | 103,093 |  |  | 12.9 | 20.3 | 25.3 | 23.0 | 18.5 |  |
| Michigan | 96,400 |  |  | 12.4 | 23.5 | 27.7 | 21.5 | 14.8 |  |
| Minnesota | 64,346 |  |  | 11.0 | 22.4 | 28.1 | 23.4 | 415.1 |  |
| Mississippi | 13,129 |  |  | 39.8 | 26.7 | 19.19 .7 |  |  |  |
| Missouri | 36,462 |  |  | 14.9 | 23.7 | 26.4 | 20.7 | 14.2 |  |
| Montana | 4,987 |  |  | 8.7 | 25.0 | 31.9 |  | . $0 \quad 13.3$ |  |
| Nebraska | 13,200 |  |  | 17.4 | 26.4 | 27.5 | 19.1 | 9.6 |  |
| Nevada | 35,876 |  |  | 22.2 | 27.9 | 25.3 | 15.59 .1 |  |  |
| New Hampshire | 9,325 |  |  | 8.3 | 22.7 | 29.9 | 23. | 7 15.4 |  |
| New Jersey | 133,909 |  |  | 12.4 | 18.2 | 24.7 | 24.1 | 20.6 |  |
| New Mexico | 16,452 |  |  | 35.4 | 28.1 | 19.810 .8 | 5.9 |  |  |
| New York | 266,285 |  |  | 14.8 | 23.5 | 26.5 | 20.8 | 14.4 |  |
| North Carolina | 133,141 |  |  | 20.9 | 25.5 | 24.3 | 18.310. |  |  |
| North Dakota | 4,039 |  |  | 11.8 | 28.9 | 30.3 | 18.8 | 10.3 |  |
| Ohio | 105,943 |  |  | 13.2 | 22.3 | 27.6 | 21.7 | 15.2 |  |
| Oklahoma | 28,377 |  |  | 25.2 | 29.3 | 25.0 | 14.06 .5 |  |  |
| Oregon | 31,202 |  |  | 16.4 | 24.7 | 25.9 | 20.0 | 13.1 |  |
| Pennsylvania | 115,576 |  |  | 12.0 | 20.6 | 26.9 | 23.1 | 17.3 |  |
| Rhode Island | 11,222 |  |  | 24.1 | 24.2 | 24.0 | 17.010 .8 |  |  |
| South Carolina | 49,445 |  |  | 15.8 | 25.4 | 27.1 | 20.0 | 11.7 |  |
| South Dakota | 4,355 |  |  | 8.2 | 23.7 | 29.3 | 23. | 15.3 |  |
| Tennessee | 53,268 |  |  | 21.1 | 25.3 | 25.7 | 17.510. |  |  |
| Texas | 540,815 |  |  | 28.1 | 24.5 | 22.1 | 5.79 .6 |  |  |
| Utah | 38,971 |  |  | 8.9 | 22.9 | 30.0 |  | 7-14.6 |  |
| Vermont | 5,896 |  |  | 9.9 | 22.5 | 30.1 | 22.5 | . 515.0 |  |
| Virginia | 142,143 |  |  | 12.5 | 22.1 | 27.0 | 22.0 | 16.4 |  |
| Washington | 82,639 |  |  | 14.5 | 22.7 | 26.2 | 21.2 | 15.3 |  |
| West Virginia | 11,926 |  |  | 23.4 | 30.6 | 25.0 | 3.47 .5 |  |  |
| Wisconsin | 71,897 |  |  | 10.8 | 22.6 | 28.3 | 23.2 | 215.0 |  |
| Wyoming | 3,226 |  |  | 15.2 | 27.5 | 28.0 | 17.51 | 11.8 |  |
| UNITED STATES | 4,269,670 |  |  | 18.7 | 23.7 | 25.1 | 19.4 | 13.1 |  |

[^2]
## A Commitment to Access and Opportunity for All

Progress continues to be made each year to ensure that all students have access to the AP Program, yet some groups of students remain underrepresented in AP classrooms and in the overall population of students who earn qualifying scores of 3 or higher on AP Exams. Closing the equity gap in AP participation is critical to giving all students the chance to experience the benefits of challenging coursework.

The number of students participating in AP has grown consistently over the last two decades, thanks to the dedicated efforts of schools and districts nationwide. A national overview of progress shows how well states have connected students to AP and eliminated barriers that may restrict access of traditionally underrepresented groups.

As part of our Equity and Access Policy, AP strongly encourages schools to ensure that the demographics of AP classes reflect the overall demographics of the school. Ideally, the percentage of students scoring a 3 or higher on an AP Exam should match the proportion of the population for each demographic group within the school.

Figure 4 illustrates how well we are succeeding in meeting this goal at a national level by presenting AP participation and performance data for the class of 2019 by demographic group, compared to the demographics of the class of 2019.

The College Board strongly encourages states and districts to make equitable access a guiding principle for their AP programs and to commit to providing all students with the opportunity to experience academically challenging coursework, even before they enroll in AP classes.

FIGURE 4
Demographics of the Class of 2019 and AP Exam Takers in the Class of 2019

*In 2016, the race/ethnicity question changed to align with the seven categories established by the U.S. Department of Education guidelines. For more information, visit collegeboard.org/raceethnicity. The class of 2019 percentages are sourced from Western Interstate Commission for Higher Education (WICHE), which continues to make projections by five major racial/ ethnic categories. Therefore, Two or More Races and Native Hawaiian/Other Pacific Islander projections are not provided separately but rather dispersed into the five existing racial/ethnic categories. As a result, some caution should be exercised in comparing the percentage of the AP Exam taker population and the AP Exam taker population scoring 3 or higher to the class of 2019. The race/ethnicity definitions, while very similar, are not precisely the same.

Because some AP Exam takers identified as "Other" or did not provide race/ethnicity, the AP Exam taker population in this figure represents a total of 98.7\% of all AP Exam takers in the class of 2019.

## Focus on Low-Income Students

Every student-including those from low-income families-deserves the chance to benefit from the AP experience. Recent efforts by states, districts, and schools helped increase access to AP for students from low-income backgrounds. The figure below highlights the states that provided funding for low-income AP Exams in 2019.

## States That Provided Funding for

 2019 Low-Income AP Exams

[^3]
## AP Funding Assistance for Low-Income Students

The number of low-income students benefiting from participation in the AP Program increased again this year, thanks to a strong commitment from several states in 2019. A total of 29 states and the District of Columbia saw the importance of ensuring access to AP for low-income students by providing the financial support they needed.

State funding plays a critical role in expanding AP opportunities to serve low-income students. Equity gaps continued to narrow in states that contributed to reduce exam fees for low-income students in 2019. By contrast, gaps in AP participation between low-income students and their peers widened in the states that provided no state-level funding for lowincome students' exam fees. In states that provided funding, students received on average a $\$ 39$ per-exam state subsidy in 2019. Alongside the College Board $\$ 32$ fee reduction, the resulting fee charged to students was \$14 per exam.

We continue to encourage state and district leaders to announce their support for the AP Program early-as early as possible for the 2020 AP Exams. An early state commitment provides a strong assurance to students and has been a critical factor in boosting AP participation rates.

Leaders should consider these sources to support their AP students:

- State and local funds: A number of states cover the costs of their students' AP Exams by using state and local funds.
- Title IV, Part A: States and districts can use federal funds provided under the Title IV, Part A Student Support and Academic Enrichment Grants program in the Every Student Succeeds Act to cover part or all of the cost of AP Exams for low-income students. The vast majority ( $95 \%$ ) of this funding will go to districts, but states can use their $5 \%$ of the funds for state-level activities, including supporting AP students.
- Title I: Districts or schools receiving Title I funds may use those funds to cover a portion of AP Exam fees for low-income students. The funds must be used to supplement and not supplant any state or local funding for AP Exams. States may also reserve 3\% of their Title I funds for Direct Student Services, which can include reimbursing AP Exam fees for low-income students.
- Combination of above: Funding sources can be combined in creative ways. For example, a state could partially cover low-income students' exams using state funds and then cover the remaining costs with their Title IV-A state set-aside funds. Or a state could cover a portion of the cost with state funds and encourage districts to cover remaining costs with their Title IV-A allocation.


Despite these initiatives, the equity gap in AP participation and success for low-income students remains. A look at AP participation and performance data for low-income students provides a measure of how well states and the nation as a whole are using education resources to promote equity.

- Figure 5A is sorted by the percentage of $\mathrm{K}-12$ public school students in each state who are eligible for free or reduced-price lunch. This allows for comparison among states with similar proportions of lowincome students. The columns showing the percentage of low-income AP Exam takers and the percentage of successful low-income AP Exam takers provide a picture of how equitably low-income students are represented in AP classrooms within each state.

FIGURE 5A
Participation and Performance of Low-Income Students in the Class of 2019

|  |  | $\%$ of K-12 Students Eligible for Free or Reduced-Price Lunch | \% of AP Exam Takers Who Used an AP Exam Fee Reduction | \% of AP Exam Takers <br> Scoring 3+ Who <br> Used an AP Exam Fee Reduction |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | District of Columbia | 76.4 | 35.9 | 29.9 |  |
|  | Mississippi | 75.0 | 35.0 | 21.4 |  |
| 70\% | New Mexico | 71.4 | 47.3 | 43.0 |  |
|  | South Carolina | 67.0 | 20.4 | 16.5 |  |
|  | Arkansas | 63.6 | 37.4 | 30.8 |  |
|  | Louisiana | 63.0 | 33.0 | 24.0 |  |
|  | Oklahoma | 62.5 | 34.1 | 26.8 |  |
|  | Georgia | 62.0 | 30.4 | 23.2 |  |
| 60\% | Nevada | 60.8 | 39.4 | 37.2 |  |
| 60\% | Texas | 59.0 | 48.8 | 44.0 |  |
|  | Tennessee | 58.8 | 25.1 | 19.5 | WHAT DO THE |
|  | Kentucky | 58.7 | 34.0 | 26.8 | DATA SHOW? |
|  | California | 58.1 | 45.7 | 42.2 |  |
|  | Florida | 58.1 | 41.5 | 40.3 | Texas |
|  | North Carolina | 57.4 | 13.1 | 10.3 | is the state closest to |
|  | Arizona | 57.0 | 32.3 | 27.8 | chieving equitable |
|  | Missouri | 52.7 | 20.2 | 13.8 |  |
|  | New York | 52.6 | 32.7 | 27.8 | aricipation and |
|  | UNITED STATES | 52.3 | 30.7 | 26.2 | performance for |
|  | Alabama | 51.6 | 25.9 | 16.3 | ow-income students. |
|  | Oregon | 50.5 | 25.4 | 21.8 |  |
| 50\% | Illinois | 50.2 | 31.3 | 25.7 |  |
| 50\% | Kansas | 48.2 | 15.3 | 11.5 |  |
|  | Delaware | 48.1 | 22.1 | 17.7 |  |
|  | Indiana | 47.9 | 18.4 | 15.6 |  |
|  | Hawaii | 47.6 | 30.5 | 27.8 |  |
|  | Rhode Island | 47.6 | 28.4 | 19.8 |  |
|  | Pennsylvania | 47.5 | 19.2 | 15.2 |  |
|  | Maryland | 46.7 | 20.4 | 16.5 |  |
|  | Idaho | 45.8 | 15.9 | 13.3 |  |
|  | Michigan | 45.7 | 18.5 | 14.0 |  |
|  | Montana | 45.6 | 10.5 | 7.8 |  |
|  | Maine | 45.5 | 12.4 | 9.8 |  |
|  | Alaska | 45.3 | 12.0 | 10.1 |  |
|  | Nebraska | 44.7 | 19.0 | 14.5 |  |
|  | West Virginia | 44.6 | 21.2 | 18.8 |  |
|  | Ohio | 44.3 | 13.3 | 8.5 |  |
|  | Washington | 43.6 | 21.5 | 16.7 |  |
|  | Colorado | 42.2 | 18.6 | 15.6 | As there is no national data source on |
|  | Virginia | 41.2 | 10.9 | 8.0 | high school graduates' low-income status, |
| 40\% | lowa | 40.9 | 18.7 | 15.1 | K-12 estimates from the National Center for Education Statistics (NCES)—based |
| 40\% | Massachusetts | 39.9 | 23.3 | 18.6 | on free or reduced-price lunch eligibility- |
|  | Wyoming | 38.6 | 5.6 | 6.1 | have been used. AP fee reductions are |
|  | Vermont | 38.5 | 12.0 | 11.9 | based on this eligibility threshold among |
|  | New Jersey | 37.9 | 16.9 | 13.2 | other criteria. NCES estimates reflect <br> all K-12 public school students from the |
|  | South Dakota | 37.9 | 8.2 | 8.1 | 2016-17 school year; thus, a degree of |
|  | Minnesota | 37.7 | 16.1 | 12.1 | caution is warranted as these data may not |
|  | Wisconsin | 37.4 | 13.9 | 11.1 | accurately reflect the class of 2019. |
|  | Utah | 36.4 | 10.0 | 9.3 | Figure 5A is sorted by the percentage of |
|  | Connecticut | 35.7 | 20.0 | 14.9 | $\mathrm{K}-12$ public school students in each state |
| 30\% | North Dakota | 30.9 | 7.1 | 7.8 | who are eligible for free or reduced-price |
| 30\% | New Hampshire | 27.3 | 4.4 | 4.0 | lunch. States with a tie in the percentage are listed alphabetically. |

FIGURE 5B
Participation and Performance of Low-Income Students in the Class of 2019, United States

## Population

52.3\% of U.S. Public School Students (K-12) Are Eligible for Free or Reduced-Price Lunch

\% of K-12 Students Eligible for Free or Reduced-Price Lunch

## Participation

$\mathbf{3 0 . 7 \%}$ of U.S. Public School AP Exam Takers Used an AP Exam Fee Reduction

\% of AP Exam Takers Who Used an AP Exam Fee Reduction

## Performance

26.2\% of U.S. Public School AP Exam Takers Scoring 3+ Used an AP Exam Fee Reduction

\% of AP Exam Takers Scoring 3+ Who Used an AP Exam Fee Reduction

Here's the math:

## Population

52.3\% of K-12 Students Eligible for Free or Reduced-Price Lunch =

26,113,604 K-12
Students Eligible for Free or Reduced-Price Lunch

49,944,748
K-12 Students

Participation
30.7\% of AP Exam Takers Who Used an AP Exam Fee Reduction =

382,495 AP Exam Takers Who Used an AP Exam Fee Reduction

1,245,527
AP Exam Takers

Performance
26.2\% of AP Exam Takers Scoring 3+ Who Used an AP Exam Fee Reduction =

200,311 AP Exam Takers Scoring 3+ Who Used an AP Exam Fee Reduction

764,702
AP Exam Takers Scoring 3+

## WHAT DO THE DATA SHOW?

## Equity Gaps Persist

- Low income students are underrepresented in AP, both in terms of participation and performance.

Appendix

|  | Total Number of Graduates |  |  |  | Participation |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Number of Graduates Who Took an AP Exam During High School |  |  |  | Percentage of Graduates Who Took an AP Exam During High School |  |  |  |
|  | 2009 | 2014 | 2018 | 2019 | 2009 | 2014 | 2018 | 2019 | 2009 | 2014 | 2018 | 2019 |
| Alabama | 42,082 | 44,427 | 45,389 | 44,618 | 6,423 | 12,340 | 15,434 | 15,313 | 15.3 | 27.8 | 34.0 | 34.3 |
| Alaska | 8,008 | 7,787 | 7,607 | 7,561 | 1,542 | 1,667 | 1,935 | 1,820 | 19.3 | 21.4 | 25.4 | 24.1 |
| Arizona | 62,374 | 65,553 | 66,335 | 66,850 | 11,259 | 15,806 | 20,156 | 20,253 | 18.1 | 24.1 | 30.4 | 30.3 |
| Arkansas | 28,057 | 29,553 | 29,853 | 30,102 | 9,861 | 13,455 | 14,407 | 13,961 | 35.1 | 45.5 | 48.3 | 46.4 |
| California | 372,310 | 416,784 | 406,351 | 403,138 | 123,650 | 159,124 | 191,323 | 190,247 | 33.2 | 38.2 | 47.1 | 47.2 |
| Colorado | 47,459 | 51,882 | 54,851 | 55,925 | 15,465 | 20,816 | 24,466 | 25,060 | 32.6 | 40.1 | 44.6 | 44.8 |
| Connecticut | 34,968 | 37,451 | 36,292 | 35,801 | 10,914 | 14,737 | 16,369 | 16,628 | 31.2 | 39.4 | 45.1 | 46.4 |
| Delaware | 7,839 | 8,231 | 8,401 | 8,423 | 2,050 | 2,625 | 2,945 | 3,006 | 26.2 | 31.9 | 35.1 | 35.7 |
| District of Columbia | 3,517 | 3,755 | 3,944 | 4,001 | 1,341 | 1,749 | 2,257 | 2,177 | 38.1 | 46.6 | 57.2 | 54.4 |
| Florida | 153,461 | 161,365 | 164,579 | 165,917 | 58,255 | 82,204 | 91,974 | 92,984 | 38.0 | 50.9 | 55.9 | 56.0 |
| Georgia | 88,003 | 94,767 | 99,540 | 101,123 | 27,303 | 35,906 | 41,089 | 40,945 | 31.0 | 37.9 | 41.3 | 40.5 |
| Hawaii | 11,508 | 11,063 | 11,070 | 10,613 | 2,130 | 3.269 | 4,142 | 4,095 | 18.5 | 29.5 | 37.4 | 38.6 |
| Idaho | 16,807 | 19,033 | 19,724 | 20,275 | 2,623 | 3,382 | 4,504 | 4,473 | 15.6 | 17.8 | 22.8 | 22.1 |
| Illinois | 131,670 | 135,725 | 135,357 | 134,527 | 32,681 | 45,412 | 55,228 | 56,607 | 24.8 | 33.5 | 40.8 | 42.1 |
| Indiana | 63,663 | 67,125 | 66,504 | 68,001 | 12,892 | 22,933 | 25,807 | 26,007 | 20.3 | 34.2 | 38.8 | 38.2 |
| lowa | 33,926 | 32,474 | 33,153 | 32,790 | 4,661 | 6,298 | 7,283 | 7,003 | 13.7 | 19.4 | 22.0 | 21.4 |
| Kansas | 30,368 | 31,705 | 33,162 | 33,384 | 4,690 | 5,426 | 5,833 | 5,397 | 15.4 | 17.1 | 17.6 | 16.2 |
| Kentucky | 41,851 | 42,692 | 42,512 | 42,585 | 8,721 | 13,656 | 15,624 | 14,807 | 20.8 | 32.0 | 36.8 | 34.8 |
| Louisiana | 35,622 | 38,448 | 40,235 | 39,519 | 2,821 | 7,471 | 11,478 | 11,114 | 7.9 | 19.4 | 28.5 | 28.1 |
| Maine | 14,093 | 12,696 | 12,230 | 12,090 | 4,352 | 4,682 | 4,599 | 4,628 | 30.9 | 36.9 | 37.6 | 38.3 |
| Maryland | 58,304 | 57,507 | 56,765 | 56,287 | 23,037 | 27,805 | 27,868 | 26,421 | 39.5 | 48.4 | 49.1 | 46.9 |
| Massachusetts | 65,258 | 65,065 | 64,930 | 65,037 | 18,789 | 25,622 | 30,744 | 31,146 | 28.8 | 39.4 | 47.3 | 47.9 |
| Michigan | 112,742 | 102,422 | 99,073 | 98,073 | 22,706 | 28,795 | 32,447 | 32,107 | 20.1 | 28.1 | 32.8 | 32.7 |
| Minnesota | 59,729 | 56,147 | 57,744 | 58,494 | 14,196 | 18,118 | 20,033 | 20,380 | 23.8 | 32.3 | 34.7 | 34.8 |
| Mississippi | 24,505 | 26,238 | 26,492 | 25,593 | 3,259 | 3,744 | 5,907 | 5,801 | 13.3 | 14.3 | 22.3 | 22.7 |
| Missouri | 62,969 | 60,786 | 60,741 | 60,348 | 7,555 | 10,049 | 12,675 | 12,782 | 12.0 | 16.5 | 20.9 | 21.2 |
| Montana | 10,077 | 9,442 | 9,142 | 9,403 | 1,661 | 1,972 | 1,959 | 1,927 | 16.5 | 20.9 | 21.4 | 20.5 |
| Nebraska | 19,501 | 20,436 | 21,250 | 21,599 | 2,571 | 3,444 | 4,120 | 4,186 | 13.2 | 16.9 | 19.4 | 19.4 |
| Nevada | 19,904 | 23,738 | 23,666 | 24,058 | 5,582 | 7,795 | 10,475 | 10,874 | 28.0 | 32.8 | 44.3 | 45.2 |
| New Hampshire | 14,757 | 13,700 | 12,964 | 12,661 | 3,082 | 3,356 | 3,785 | 3,684 | 20.9 | 24.5 | 29.2 | 29.1 |
| New Jersey | 95,085 | 94,347 | 94,077 | 93,944 | 24,427 | 30,817 | 37,775 | 38,252 | 25.7 | 32.7 | 40.2 | 40.7 |
| New Mexico | 17,931 | 18,842 | 19,546 | 19,913 | 3,771 | 5,149 | 6,326 | 6,310 | 21.0 | 27.3 | 32.4 | 31.7 |
| New York | 180,917 | 181,185 | 178,380 | 177, 233 | 57,265 | 68,227 | 79,854 | 79,809 | 31.7 | 37.7 | 44.8 | 45.0 |
| North Carolina | 86,712 | 95,687 | 99,272 | 100,794 | 24,470 | 29,242 | 38,452 | 38,079 | 28.2 | 30.6 | 38.7 | 37.8 |
| North Dakota | 7,232 | 6,961 | 6,996 | 7,339 | 735 | 920 | 1,474 | 1,596 | 10.2 | 13.2 | 21.1 | 21.7 |
| Ohio | 122,203 | 112,869 | 114,842 | 113,296 | 22,192 | 28,433 | 33,584 | 33,215 | 18.2 | 25.2 | 29.2 | 29.3 |
| Oklahoma | 37,219 | 37,473 | 39,885 | 40,063 | 7,355 | 8,585 | 9,897 | 9,760 | 19.8 | 22.9 | 24.8 | 24.4 |
| Oregon | 35,138 | 34,930 | 34,448 | 34,418 | 6,808 | 8,435 | 10,483 | 10,609 | 19.4 | 24.1 | 30.4 | 30.8 |
| Pennsylvania | 130,658 | 128,038 | 125,963 | 125,189 | 24,173 | 31,102 | 37,116 | 36,994 | 18.5 | 24.3 | 29.5 | 29.6 |
| Rhode Island | 10,028 | 9,591 | 8,633 | 9,146 | 1,736 | 2,658 | 3,429 | 3,684 | 17.3 | 27.7 | 39.7 | 40.3 |
| South Carolina | 39,114 | 41,316 | 44,159 | 44,365 | 9,175 | 12,057 | 15,172 | 15,330 | 23.5 | 29.2 | 34.4 | 34.6 |
| South Dakota | 8.123 | 7,894 | 8,035 | 7,890 | 1,312 | 1,619 | 1.520 | 1,512 | 16.2 | 20.5 | 18.9 | 19.2 |
| Tennessee | 60,368 | 60,967 | 63,042 | 62,933 | 9,058 | 11,832 | 15,576 | 16,458 | 15.0 | 19.4 | 24.7 | 26.2 |
| Texas | 264,275 | 300,974 | 329,644 | 336,978 | 76,770 | 107,439 | 139,506 | 142,128 | 29.0 | 35.7 | 42.3 | 42.2 |
| Utah | 30,463 | 33,260 | 37,674 | 38,093 | 9,179 | 11,561 | 13,564 | 13,903 | 30.1 | 34.8 | 36.0 | 36.5 |
| Vermont | 7,209 | 6,349 | 6,015 | 5,967 | 2,103 | 2,298 | 2,229 | 2,148 | 29.2 | 36.2 | 37.1 | 36.0 |
| Virginia | 79,651 | 82,490 | 84,962 | 85,010 | 29,494 | 35,318 | 35,834 | 35,357 | 37.0 | 42.8 | 42.2 | 41.6 |
| Washington | 62,764 | 66,299 | 66,606 | 66,807 | 17,284 | 22,349 | 26,245 | 25,935 | 27.5 | 33.7 | 39.4 | 38.8 |
| West Virginia | 17,690 | 17,365 | 17,218 | 16,870 | 3,070 | 3,817 | 4,313 | 4,303 | 17.4 | 22.0 | 25.0 | 25.5 |
| Wisconsin | 65,410 | 60,647 | 61,266 | 60,711 | 16,048 | 19,859 | 22,965 | 22,980 | 24.5 | 32.7 | 37.5 | 37.9 |
| Wyoming | 5,493 | 5,597 | 5,720 | 5,751 | 803 | 966 | 1,295 | 1,332 | 14.6 | 17.3 | 22.6 | 23.2 |
| UNITED STATES | 3,039,015 | 3,151,078 | 3,196,239 | 3,201,506 | 793,300 | 1,046,341 | 1,243,475 | 1,245,527 | 26.1 | 33.2 | 38.9 | 38.9 |

## Success

| Number of Graduates Who Scored 3 or Higher on an AP Exam | Percentage of Graduates Who Scored 3 or Higher on an AP <br> Exam During High School |
| :--- | :--- |
| During High School | En |


| 2009 | 2014 | 2018 | 2019 | 2009 | 2014 | 2018 | 2019 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2,968 | 4,881 | 6,388 | 6,415 | 7.1 | 11.0 | 14.1 | 14.4 | Alabama |
| 975 | 1,048 | 1,211 | 1,118 | 12.2 | 13.5 | 15.9 | 14.8 | Alaska |
| 6,404 | 9,080 | 11,392 | 11,912 | 10.3 | 13.9 | 17.2 | 17.8 | Arizona |
| 3,197 | 4,682 | 5,394 | 5,418 | 11.4 | 15.8 | 18.1 | 18.0 | Arkansas |
| 80,648 | 105,632 | 127,418 | 129,291 | 21.7 | 25.3 | 31.4 | 32.1 | California |
| 9,469 | 12,944 | 15,519 | 16,304 | 20.0 | 24.9 | 28.3 | 29.2 | Colorado |
| 7,772 | 10,841 | 11,689 | 11,650 | 22.2 | 28.9 | 32.2 | 32.5 | Connecticut |
| 1,083 | 1,431 | 1,645 | 1,637 | 13.8 | 17.4 | 19.6 | 19.4 | Delaware |
| 260 | 446 | 773 | 789 | 7.4 | 11.9 | 19.6 | 19.7 | District of Columbia |
| 30,787 | 43,147 | 52,194 | 53,543 | 20.1 | 26.7 | 31.7 | 32.3 | Florida |
| 14,514 | 19,188 | 23,081 | 23,417 | 16.5 | 20.2 | 23.2 | 23.2 | Georgia |
| 964 | 1,394 | 1,909 | 1,896 | 8.4 | 12.6 | 17.2 | 17.9 | Hawaii |
| 1,732 | 2,256 | 2,676 | 2,623 | 10.3 | 11.9 | 13.6 | 12.9 | Idaho |
| 21,412 | 30,055 | 36,952 | 38,266 | 16.3 | 22.1 | 27.3 | 28.4 | Illinois |
| 6,522 | 11,305 | 13,390 | 13,576 | 10.2 | 16.8 | 20.1 | 20.0 | Indiana |
| 2,918 | 3,854 | 4,542 | 4,344 | 8.6 | 11.9 | 13.7 | 13.2 | lowa |
| 2,742 | 3,305 | 3,517 | 3,500 | 9.0 | 10.4 | 10.6 | 10.5 | Kansas |
| 4,326 | 6,940 | 7,851 | 7,707 | 10.3 | 16.3 | 18.5 | 18.1 | Kentucky |
| 1,245 | 2,298 | 3,645 | 3,722 | 3.5 | 6.0 | 9.1 | 9.4 | Louisiana |
| 2,564 | 2,921 | 2,809 | 2,847 | 18.2 | 23.0 | 23.0 | 23.5 | Maine |
| 14,360 | 17,444 | 17,960 | 17,725 | 24.6 | 30.3 | 31.6 | 31.5 | Maryland |
| 13,585 | 18,148 | 21,350 | 21,993 | 20.8 | 27.9 | 32.9 | 33.8 | Massachusetts |
| 14,623 | 19,007 | 20,941 | 20,869 | 13.0 | 18.6 | 21.1 | 21.3 | Michigan |
| 9,063 | 11,839 | 13,295 | 13,531 | 15.2 | 21.1 | 23.0 | 23.1 | Minnesota |
| 1,019 | 1,248 | 1,765 | 1,883 | 4.2 | 4.8 | 6.7 | 7.4 | Mississippi |
| 4,388 | 6,102 | 7,399 | 7,594 | 7.0 | 10.0 | 12.2 | 12.6 | Missouri |
| 1,066 | 1,254 | 1,170 | 1,301 | 10.6 | 13.3 | 12.8 | 13.8 | Montana |
| 1,443 | 1,991 | 2,470 | 2,593 | 7.4 | 9.7 | 11.6 | 12.0 | Nebraska |
| 3,023 | 4,304 | 5,862 | 6,216 | 15.2 | 18.1 | 24.8 | 25.8 | Nevada |
| 2,260 | 2,490 | 2,683 | 2,619 | 15.3 | 18.2 | 20.7 | 20.7 | New Hampshire |
| 17,508 | 22,895 | 27,303 | 27,801 | 18.4 | 24.3 | 29.0 | 29.6 | New Jersey |
| 1,661 | 2,128 | 2,656 | 2,663 | 9.3 | 11.3 | 13.6 | 13.4 | New Mexico |
| 37,597 | 45,830 | 51,261 | 51,378 | 20.8 | 25.3 | 28.7 | 29.0 | New York |
| 14,668 | 17,413 | 21,323 | 21,523 | 16.9 | 18.2 | 21.5 | 21.4 | North Carolina |
| 448 | 611 | 843 | 928 | 6.2 | 8.8 | 12.0 | 12.6 | North Dakota |
| 13,665 | 18,097 | 20,496 | 20,729 | 11.2 | 16.0 | 17.8 | 18.3 | Ohio |
| 3,566 | 4,239 | 4,817 | 4,752 | 9.6 | 11.3 | 12.1 | 11.9 | Oklahoma |
| 4,279 | 5,305 | 6,364 | 6,662 | 12.2 | 15.2 | 18.5 | 19.4 | Oregon |
| 16,001 | 20,892 | 24,462 | 24,801 | 12.2 | 16.3 | 19.4 | 19.8 | Pennsylvania |
| 1,074 | 1,556 | 1,911 | 2,036 | 10.7 | 16.2 | 22.1 | 22.3 | Rhode Island |
| 5,233 | 7,159 | 8,771 | 9,027 | 13.4 | 17.3 | 19.9 | 20.3 | South Carolina |
| 853 | 1,053 | 1,070 | 1,018 | 10.5 | 13.3 | 13.3 | 12.9 | South Dakota |
| 4,835 | 6,258 | 8,220 | 8,771 | 8.0 | 10.3 | 13.0 | 13.9 | Tennessee |
| 39,825 | 55,673 | 72,171 | 75,844 | 15.1 | 18.5 | 21.9 | 22.5 | Texas |
| 6,136 | 8,037 | 9,589 | 9,714 | 20.1 | 24.2 | 25.5 | 25.5 | Utah |
| 1,454 | 1,628 | 1,547 | 1,535 | 20.2 | 25.6 | 25.7 | 25.7 | Vermont |
| 18,552 | 22,870 | 24,251 | 24,492 | 23.3 | 27.7 | 28.5 | 28.8 | Virginia |
| 10,376 | 13,606 | 15,719 | 16,088 | 16.5 | 20.5 | 23.6 | 24.1 | Washington |
| 1,359 | 1,677 | 1,897 | 2,009 | 7.7 | 9.7 | 11.0 | 11.9 | West Virginia |
| 11,035 | 13,953 | 15,991 | 15,911 | 16.9 | 23.0 | 26.1 | 26.2 | Wisconsin |
| 426 | 563 | 737 | 721 | 7.8 | 10.1 | 12.9 | 12.5 | Wyoming |
| 477,883 | 632,918 | 750,289 | 764,702 | 15.7 | 20.1 | 23.5 | 23.9 | UNITED STATES |

## About College Board

College Board is a mission-driven not-for-profit organization that connects students to college success and opportunity. Founded in 1900, College Board was created to expand access to higher education. Today, the membership association is made up of over 6,000 of the world's leading educational institutions and is dedicated to promoting excellence and equity in education. Each year, College Board helps more than seven million students prepare for a successful transition to college through programs and services in college readiness and college success-including the SAT ${ }^{\oplus}$ and the Advanced Placement ${ }^{\oplus}$ Program. The organization also serves the education community through research and advocacy on behalf of students, educators, and schools.

For further information, visit collegeboard.org.

## Florida

Score Distributions of AP* Exams Taken by the Class of 2019 During High School


Note: Computer Science Principles was introduced in May 2017.
Due to rounding, percentages do not always add up to 100.0.
Score distributions for subjects with fewer than five AP Exam takers were omitted from this figure.

## Florida

## Participation and Performance of Low-Income Students in the Class of 2019

Population
$\mathbf{5 8 . 1} \%$ of $K-12$ Students
Are Eligible for Free or
Reduced-Price Lunch in

Florida*

\% of K-12 Students Eligible for Free or Reduced-Price Lunch

Participation
41.5\% of AP ${ }^{\circ}$ Exam Takers Used an AP Exam Fee Reduction in Florida

## Performance

40.3\% of AP Exam Takers Scoring 3+ Used an AP Exam Fee Reduction in Florida

\% of AP Exam Takers Who Used an AP Exam Fee Reduction


EQUITY GAP: 17.8\%
\% of AP Exam Takers Scoring 3+ Who Used an AP Exam Fee Reduction

## Here's the math:

$\left.\left.\begin{array}{cc}\text { Population } & \text { Participation } \\ \text { 58.1\% of K-12 Students } \\ \text { Eligible for Free } \\ \text { or Reduced-Price } \\ \text { Lunch = }\end{array}\right] \begin{array}{c}\mathbf{4 1 . 5 \% \text { of AP Exam }} \begin{array}{c}\text { Takers Who } \\ \text { Used an AP Exam } \\ \text { Fee Reduction = } \\ \text { 1,633,226 K-12 Students } \\ \text { Eligible for Free or } \\ \text { Reduced-Price Lunch }\end{array} \\ \left.\hline \begin{array}{c}\text { 2,811,090 } \\ \text { K-12 Students }\end{array}\right]\end{array} \quad\left[\begin{array}{c}\text { 38,583 AP Exam } \\ \text { Takers Who Used an AP } \\ \text { Exam Fee Reduction }\end{array}\right] \begin{array}{c}92,984 \\ \text { AP Exam Takers }\end{array}\right]$

## Performance

40.3\% of AP Exam Takers Scoring 3+ Who Used an AP Exam Fee Reduction =
$\left[\begin{array}{c}\text { 21,593 AP Exam } \\ \text { Takers Scoring 3+ Who } \\ \text { Used an AP Exam Fee } \\ \text { Reduction } \\ \hline 53,543 \\ \text { AP Exam Takers } \\ \text { Scoring 3+ }\end{array}\right]$
*As there is no national data source on high school graduates' low-income status, K-12 estimates from the National Center for Education Statistics (NCES)—based on free or reduced-price lunch eligibility-have been used. AP fee reductions are based on this eligibility threshold among other criteria. NCES estimates reflect all K-12 public school students from the 2016-17 school year; thus, a degree of caution is warranted as these data may not accurately reflect the class of 2019.

## Florida

Highlights

## Participation in the Development of AP

2019 AP Reading participants: 1,614
Florida represents 8.9\% of all AP readers

- AP high school teachers: 1,310
- College and university faculty members: 304

2019 AP Professional Development Leaders: 67
2019 AP Development Committee Members: 18
Coral Park Senior High School Physics C
Deerfield Beach High School Japanese Language and Culture
Felix Varela High School
Seminar
Florida A\&M University
Florida A\&M University
Florida Atlantic University
GW Carver School
JW Mitchell High School
Lincoln High School
Environmental Science
Physics 1
French Language and Culture
Italian Language and Culture
Biology
Art and Design
Mandarin High School
Microeconomics
Miami Coral Park Senior High School Research
Oak Hall School
Latin
Ronald Reagan/Doral Senior High School
Trinity Preparatory School
University of Central Florida
University School of Nova
Southeastern University
Windermere High School
Spanish Language and Culture
World History
Spanish Literature and Culture
Comparative Government and Politics
Comparative Government and Politics
Winter Springs High School
Computer Science A
2019 AP Course Syllabi Reviewers: 4
Florida Gulf Coast University
Indian River State College
European History

Palm Beach Atlantic University
U.S. History

Research, Seminar, U.S. History
U.S. Government and Politics

## AP Capstone

Florida public high schools participating in AP Capstone ${ }^{\text {TM }}$ in the 2018-19 school year: 198
Florida public high school students in the graduating class of 2019 received:

- AP Capstone Diplomas: 1,212
- AP Seminar and Research Certificates: 538


## AP District Honor Rol

The AP District Honor Roll is a list of districts honored for increasing access to AP coursework while simultaneously maintaining or increasing the percentage of students earning scores of 3 or higher on AP Exams. Reaching these goals indicates that these districts are successfully identifying motivated, academically prepared students who are likely to benefit from challenging AP coursework. AP honor roll districts are committed to expanding the availability of AP courses among prepared and motivated students of all backgrounds.

10th Annual AP District Honor Roll Districts in Florida: 2
Desoto County School District
Pasco County Public Schools*
*District has achieved the honor for multiple years.

## Florida

## Potential Cost Savings for Florida’s Students and Families

In May 2019, Florida public and private high school students took a total of 215,120 AP' Exams that resulted in scores of 3, 4, or 5 . Based on students' opportunity to earn at least 3 college credits for each AP Exam score of 3 or higher, this represents an estimated 645,360 college credits. At an average rate of $\$ 211.67^{*}$ per credit hour, the total potential cost savings for the state's students and families was \$136,603,351.
*Please note: These estimates are based on Table 5 of the 2019 College Board report, Trends in College Pricing. This report indicates that the average in-state tuition and fees at Florida public four-year colleges is $\$ 6,350$ per year or $\$ 211.67$ per credit, assuming 30 credits were taken by a full-time student. These estimates also assume that all of the 215,120 exams taken in Florida were applied toward college credit.

## A Right to Rigor: Fulfilling Student Potential in Florida

## Public Schools, Graduating Class of 2019 <br> AP English, All Students with AP Potential*

42\% (24,589): Students with potential who participated in at least one matched AP® English exam
$58 \%(34,253)$ : Students with potential who did not participate in at least one matched AP English exam

AP English, by Race/Ethnicity

| ■ $\mathbf{2 6 \%}^{\text {(35 students) }}$ | American Indian/Alaska Native | -74\% (98 students) |
| :---: | :---: | :---: |
| ■ $59 \%$ (2,011 students) | Asian | $\square 41 \%$ (1,369 students) |
| ■ 36\% (1,972 students) | Black/African American | -64\% ( 3,432 students) |
| ■ 41\% (7,497 students) | Hispanic/Latino | - $59 \%$ (10,650 students) |
| ■ 30\% (17 students) | Native Hawaiian/Other Pacific Islander | - $70 \%$ (39 students) |
| ■ 42\% (11,770 students) | White | -58\% (16,531 students) |

[^4]
## A Right to Rigor: Fulfilling Student Potential in Florida

## Public Schools, Graduating Class of 2019

AP Mathematics, All Students with AP Potential*
AP Mathematics, All Students with AP Potential ${ }^{\text {* }}$

| 48\% (12,407):Students with potential who participated in at |
| :--- |
| least one matched AP® Mathematics exam |

## AP Mathematics, by Race/Ethnicity

| - 29\% (10 students) | American Indian/Alaska Native | 71\% (25 students) |
| :---: | :---: | :---: |
| ■ 66\% (1,552 students) | Asian | - 34\% (797 students) |
| ■ 33\% (508 students) | Black/African American | - 67\% (1,028 students) |
| - 46\% (3,237 students) | Hispanic/Latino | - 54\% (3,814 students) |
| ■ 14\% (2 students) | Native Hawaiian/Other Pacific Islander | -86\% (12 students) |
| - $48 \%$ (6,511 students) | White | $\square 52 \%$ (7,072 students) |
| - 46\% ( 518 students) | Two or More Races | 54\% (614 students) |

[^5]
## A Right to Rigor: Fulfilling Student Potential in Florida

## Public Schools, Graduating Class of 2019

## AP Science, All Students with AP Potential*



[^6]
## A Right to Rigor: Fulfilling Student Potential in Florida

## Public Schools, Graduating Class of 2019

AP History and Social Science, All Students with AP Potential*


| AP History and Social Science, by Race/Ethnicity |  |  |
| :---: | :---: | :---: |
| - $52 \%$ (59 students) | American Indian/Alaska Native | -48\% (54 students) |
| - 81\% (2,778 students) | Asian | 19\% (643 students) |
| ■ $56 \%$ (2,410 students) | Black/African American | $\square 44 \%$ (1,873 students) |
| ■ 67\% (10,380 students) | Hispanic/Latino | $\square 33 \%$ ( 5,057 students) |
| - $63 \%$ (29 students) | Native Hawaiian/Other Pacific Islander | - $37 \%$ (17 students) |
| ■ 67\% (17,454 students) | White | $\square 33 \%$ (8,420 students) |
| ■ $68 \%$ (1,580 students) | Two or More Races | - $32 \%$ (755 students) |

[^7]
## A Right to Rigor: Fulfilling Student Potential in Florida

## Public Schools, Graduating Class of 2019 <br> AP STEM, All Students with AP Potential*

56\% (17,264): Students with potential who participated in at least one matched AP® STEM exam

44\% (13,758): Students with potential who did not participate in at least one matched AP STEM exam

## AP STEM, by Race/Ethnicity

| - 42\% (21 students) | American Indian/Alaska Native | - $58 \%$ (29 students) |
| :---: | :---: | :---: |
| ■ 74\% (1,895 students) | Asian | - $26 \%$ (667 students) |
| - 41\% (825 students) | Black/African American | - 59\% (1,179 students) |
| ■ 54\% (4,682 students) | Hispanic/Latino | - 46\% (3,992 students) |
| - 36\% (8 students) | Native Hawaiian/Other Pacific Islander | - 64\% (14 students) |
| - 56\% (8,990 students) | White | - 44\% (7,078 students) |
| - 55\% (743 students) | Two or More Races | - 45\% (619 students) |

[^8]
## A Right to Rigor: Fulfilling Student Potential in Florida

## Public Schools, Graduating Class of 2019

Any AP Discipline, All Students with AP Potential*
$65 \%$ (40,798): Students with potential who participated in at least one matched AP® exam
$35 \%(21,985)$ : Students with potential who did not participate in at least one matched AP exam

## Any AP Discipline, by Race/Ethnicity

| ■ 51\% (77 students) | American Indian/Alaska Native | - $49 \%$ (73 students) |
| :---: | :---: | :---: |
| ■ 82\% (3,007 students) | Asian | -18\%(644 students) |
| ■ 53\% (3,115 students) | Black/African American | $\square 47 \%$ (2,730 students) |
| ■ 64\% (12,308 students) | Hispanic/Latino | ■ $36 \%$ (7,003 students) |
| ■ $56 \%$ (35 students) | Native Hawaiian/Other Pacific Islander | - $44 \%$ (28 students) |
| ■ 67\% (20,094 students) | White | - $33 \%$ (10,017 students) |
| ■ $67 \%$ (1,862 students) | Two or More Races | - $34 \%$ (938 students) |

[^9]
## Notes for A Right to Rigor: Fulfilling Student Potential

Data in this report are based on students from the graduating class of 2019. The following assessments were used to determine whether graduating seniors had AP potential:

- During the 2015-16 school year (freshmen): PSAT/NMSQT ${ }^{\circledR}$, PSAT ${ }^{\text {TM }} 10$, PSAT $^{\text {TM }}$ 8/9, or the current SAT $^{*}$ (introduced March 2016).
- During the 2016-17 and 2017-18 school years (sophomores and juniors): PSAT/NMSQT, PSAT 10, PSAT 8/9, or the SAT.

Please note that freshman year scores are only used to identify students with potential to succeed in AP World History and AP European History, the two AP courses most often offered to 10th graders.

The students described in this report have already graduated from high school. The purpose of this report is to see how AP potential has been fulfilled in your most recent graduating class. For AP potential demonstrated by students testing in a particular administration of the PSAT/NMSQT, PSAT 8/9, PSAT 10 , or SAT, please refer to the AP Potential ${ }^{\mid T M}$ tool.

Reports are based on students associated with either a state or district school list.

For more background information about AP Potential, to learn about correlations between PSAT/NMSQT performance and specific AP Exams, or to review the expectancy tables, please visit: appotential.collegeboard.org/app/welcome.do.

## AP Courses by Content Area:

AP potential and fulfillment of AP potential are calculated for the following AP Exams, listed below according to their respective content area:

- AP Subjects in English are English Language and Composition and English Literature and Composition.
- AP Subjects in Mathematics are Calculus AB, Calculus BC, Computer Science A, and Statistics.


## AP Courses by Content Area (cont.)

- AP Subjects in Science are Biology, Chemistry,

Environmental Science, Physics 1, Physics 2, Physics C: Mechanics, and Physics C: Electricity and Magnetism.

- AP Subjects in STEM (science, technology, engineering and math) include the AP subjects classified in the Mathematics and Science disciplines.
- AP Subjects in History and Social Science are Comparative Government and Politics, European History, Human Geography, Macroeconomics, Microeconomics, Psychology, United States Government and Politics, United States History, and World History. Students who take a qualifying assessment in their freshman year only have AP potential assessed for AP European History and AP World History, the two AP courses most commonly taken in the 10th grade.
- AP Subjects in Any AP Discipline include all the AP Exams listed across content areas, plus Art History and Music Theory.


## Race/Ethnicity Information for the 2019 Right to Rigor Reports:

This report includes students who took a qualifying assessment in the 2015-16 school year, the 2016-17 school year, and/or the 2017-18 school year (see details at left). Beginning in the 201516 school year, the collection and reporting of race/ethnicity was updated to align with U.S. Department of Education guidelines. Test takers now complete an optional two-part question that asks them to indicate the racial and ethnic groups with which they identify. For more information, please visit collegeboard.org/raceethnicity.

## Comparison to Prior Years' Right to Rigor Reports:

Because fewer assessments were used to determine whether graduating seniors had AP potential in previous years, we encourage you to use caution when making comparisons between the 2019 Right to Rigor Reports and prior years' reports.

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[^0]:    *Starred states have one or more systemwide AP credit policies.

[^1]:    Raw numbers for this figure are available in the Appendix. States with a tie in the rankings are listed alphabetically.

[^2]:    Due to rounding, percentages do not always add up to 100.0.

[^3]:    *WI districts are required by law to cover the cost of AP Exams for low-income students.

[^4]:    *These students took a qualifying assessment and earned a threshold composite score, thus demonstrating at least a 60\% likelihood of earning a 3 or higher on an AP Exam within the discipline. See the notes page at the back of this report for more information.

[^5]:    *These students took a qualifying assessment and earned a threshold composite score, thus demonstrating at least a $60 \%$ likelihood of earning a 3 or higher on an AP Exam within the discipline. See the notes page at the back of this report for more information.

[^6]:    *These students took a qualifying assessment and earned a threshold composite score, thus demonstrating at least a $60 \%$ likelihood of earning a 3 or higher on an AP Exam within the discipline. See the notes page at the back of this report for more information.

[^7]:    *These students took a qualifying assessment and earned a threshold composite score, thus demonstrating at least a 60\% likelihood of earning a 3 or higher on an AP Exam within the discipline. See the notes page at the back of this report for more information.

[^8]:    *These students took a qualifying assessment and earned a threshold composite score, thus demonstrating at least a 60\% likelihood of earning a 3 or higher on an AP Exam within the discipline. See the notes page at the back of this report for more information.

    AP subjects in STEM (science, technology, engineering and math) include Biology, Calculus AB, Calculus BC, Chemistry, Computer Science A, Environmental Science, Physics 1 , Physics 2, Physics C: Mechanics, Physics C: Electricity and Magnetism, and Statistics.

[^9]:    *These students took a qualifying assessment and earned a threshold composite score, thus demonstrating at least a 60\% likelihood of earning a 3 or higher on an AP Exam within the discipline. See the notes page at the back of this report for more information.

