EQUITABLE ACCESS TO ADVANCED COURSES

STATEWIDE

AP/IB MATH & SCIENCE

WHY IT MATTERS: Advanced Placement (AP) courses and International Baccalaureate (IB) programs enable students to earn college credit and develop critical thinking skills.

▶ How many high schools offer AP/IB math and science?
Seventy percent of high schools offer AP/IB math or science courses.

▶ Who gets to enroll in AP/IB math and science in high school?
New York State enrolls students who are not low-income at 2.3 times the rate of their low-income peers. New York State enrolls White students at 2.1 times the rate of their Black peers and 2.2 times the rate of their Latinx peers.

<table>
<thead>
<tr>
<th>AP/IB Math &amp; Science</th>
<th>All students</th>
<th>Low-income</th>
<th>Not low-income</th>
<th>American Indian</th>
<th>Asian</th>
<th>Black</th>
<th>Latinx</th>
<th>Multiracial</th>
<th>White</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grades 9-12 enrollment rate</td>
<td>12%</td>
<td>8%</td>
<td>18%</td>
<td>8%</td>
<td>24%</td>
<td>7%</td>
<td>7%</td>
<td>12%</td>
<td>15%</td>
</tr>
</tbody>
</table>

▶ What does fair representation in AP/IB math and science look like?
77,000 additional students who are low-income and more than 70,000 additional Latinx and Black students should be enrolled in an AP/IB math or science course to achieve representation at the same rate as students in schools with the highest participation rates.

77,785 students who are low-income

43,510 Latinx students

27,137 Black students

The New York Equity Coalition
Learn more and read about solutions at www.EquityInEdNY.org
Are students fairly represented when their high schools offer AP/IB math and science?

Even in high schools that offer AP/IB math and science, students who are low-income and Latinx and Black students are under-represented in course enrollment.

- Share of students who are **low-income** in high schools offering AP/IB math or science courses (2018-19)
- Share of students who are **Latinx and Black** in high schools offering AP/IB math or science courses (2018-19)
- Share of students who are **low-income** enrolled in AP/IB math or science courses (2018-19)
- Share of students who are **Latinx and Black** enrolled in AP/IB math or science courses (2018-19)

### Where is AP/IB math and science offered?

High-need school districts are less likely to offer AP/IB math and science than low- and average-need districts.

![Bar chart showing the percent of schools with grades 9-12 enrollment (2018-19) by need level and percentage of courses offered.]

<table>
<thead>
<tr>
<th>Need Level</th>
<th>Percent of Schools</th>
<th>Average Number of Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low-need</td>
<td>95%</td>
<td>6</td>
</tr>
<tr>
<td>Average-need</td>
<td>81%</td>
<td>4</td>
</tr>
<tr>
<td>Rural high-need</td>
<td>65%</td>
<td>2</td>
</tr>
<tr>
<td>Urban/suburban high-need</td>
<td>68%</td>
<td>2</td>
</tr>
<tr>
<td>Large city (Big 4)</td>
<td>48%</td>
<td>2</td>
</tr>
<tr>
<td>New York City DOE</td>
<td>39%</td>
<td>2</td>
</tr>
</tbody>
</table>

### Who attends high schools where AP/IB math and science is not offered?

Nearly twice the rate of students who are low-income attend high schools that do not offer AP/IB math and science compared to their non low-income peers.

![Table showing the share of students by income and race/ethnicity in schools without AP/IB Math & Science.]

<table>
<thead>
<tr>
<th>AP/IB Math &amp; Science</th>
<th>All students</th>
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<th>Latinx</th>
<th>Multiracial</th>
<th>White</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Share of students in schools without AP/IB Math &amp; Science</td>
<td>15%</td>
<td>19%</td>
<td>10%</td>
<td>21%</td>
<td>9%</td>
<td>22%</td>
<td>19%</td>
<td>13%</td>
</tr>
<tr>
<td></td>
<td>Number of students in schools without AP/IB Math &amp; Science</td>
<td>117,369</td>
<td>70,828</td>
<td>34,623</td>
<td>1,118</td>
<td>6,820</td>
<td>27,818</td>
<td>36,875</td>
<td>1,892</td>
</tr>
</tbody>
</table>

### Are students fairly represented when their high schools offer AP/IB math and science?

Analysis is based on 2018-19 data provided by the New York State Education Department and conducted by The Education Trust–New York. Analysis includes schools with enrollment in grades 9-12 of at least 50 students. Statewide and race/ethnicity findings are based on an analysis of 1,188 schools; economic status findings are based on an analysis of 1,077 schools due to data suppression. For additional information on data exclusions, please visit [www.EquityInEdNY.org](http://www.EquityInEdNY.org).