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| AP STEM and English Program Evaluation—Year 11  *Further Exploration of AP Course and Exam Taking and Passing Rates—Continued* |
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***AP STEM and English AP Program Evaluation—Year 11***

***Further Exploration of AP Course and Exam Taking and Passing Rates—Continued***

Prepared by the UMass Donahue Institute’s  
Applied Research & Program Evaluation Group

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# Executive Summary

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| Summary of Key Findings |
| We completed descriptive analyses to examine the rate of change in any (ELA, math, or science) AP or AP science course/exam taking and passing for fifty-five schools that began their participation in the AP STEM and English program in SY2013 through SY2017. We examined changes in these rates for student groups of interest including African American / Black females, African American / Black males, Hispanic/Latino females, and Hispanic/Latino males. Change in any (ELA, math, or science) AP or AP science course/exam taking and passing rates were considered in relation to school size (number of students), urban-suburban-rural designation, percent takers (or passers) before intervention, percent of teachers who attended at least one APSI training, percent of teachers who attended at least one APSI training and were retained, and percent of AP teachers who are teachers of color.  The key findings are summarized below.   * The majority of the highest performing schools—in relation to AP course taking and passing—for most student groups, were suburban.      * + Highest performing schools tended to be suburban or rural for Hispanic/Latino females.   + Highest performing schools for African American / Black males were overwhelmingly suburban, and lowest performing schools were overwhelmingly urban. This relationship was not observed for African American / Black females. * Highest performing schools—in relation to AP course taking and passing and AP exam taking and passing—for both Hispanic/Latino females and Hispanic/Latino males tended to be those where at least 20% of all ELA, math, or science AP teachers attended at least one APSI training. For African American / Black females and African American / Black males, this relationship was only observed in relation to AP exam taking and passing.   + Lowest performing schools—in relation to AP course taking and passing and AP exam taking and passing—for the majority of student groups, tended to be those where less than 20–40% of all ELA, math, or science teachers attended at least one APSI training, depending on the student group and outcome. * Highest performing schools—in relation to AP course taking and passing and AP exam taking and passing—for most student groups, tended to have a high percentage (60% or more) of teachers who attended at least one APSI training and were retained three years after core status. * Given that a minority of schools have AP teachers who are teachers of color, both the highest performing schools *and* the lowest performing schools—in relationship to AP course taking and passing and AP exam taking and passing—tended to be schools where at most 0–20% of AP teachers were teachers of color. * Highest performing schools—in relation to AP course taking and passing—for the majority of student groups, tended to have a very low percentage of course takers (or passers) before intervention. This was most noticeable for African American / Black males and Hispanic/Latino males.   + Lowest performing schools—in relation to AP course taking and passing—for African American / Black males and Hispanic/Latino males also tended to be those with higher percentages of course takers (or passers) before intervention. |

Over the past 10 years, the Massachusetts Department of Elementary and Secondary Education (DESE) has contracted with the University of Massachusetts Donahue Institute (UMDI) to conduct an evaluation of the AP STEM and English program. This program is one of numerous DESE initiatives that aim to:

* increase the college and career readiness of students in the Commonwealth,
* reduce proficiency gaps and improve academic achievement for all student groups, and
* enhance the “STEM pipeline” of students who are interested in and well prepared for postsecondary education and careers in science, technology, engineering, and mathematics (including computer science).

As specified by DESE, the goals of the AP STEM and English program center on promoting student achievement in AP courses and exams, especially among historically marginalized populations, and school and teacher transformation related to the delivery and sustainment of AP programming.

To meet these program goals and track efforts to improve student achievement, DESE contracted with Mass Insight Education and Research (Mi) to implement tasks and responsibilities aligned with the purposes of the program. Mi aims to implement four key tasks in partner schools:

1. Increase participation and improve performance in AP science, mathematics, and ELA courses and on exams, with a focus on students from historically marginalized communities.
2. Increase the effectiveness of AP science, mathematics, and ELA teachers.
3. Increase the number of new and/or additional AP science, mathematics, and ELA courses offered by districts and schools in the Commonwealth.
4. Develop collaborations with other existing and/or newly established AP initiatives or organizations to build a robust and collaborative support system for students from historically marginalized communities, their parent(s)/guardian(s), and teachers.

In their work to complete these tasks, Mi is responsible for a variety of activities falling into three main tiers of assistance: (1) teacher supports, (2) student supports, and (3) school supports. Considering these three overarching types of support offered by Mi, the Year 11, Year 10, and Year 9 evaluation studies focused on further exploring the outcomes uncovered in Year 8 related to any (ELA, math, or science) AP or AP science course/exam taking and passing for all students and students from historically marginalized communities, and whether schools participating in Mi’s program showed more students taking AP courses and exams. More specifically, the Year 8 report focused on evaluating whether the following program goals were met:

1. Increase student enrollment and performance in AP STEM and English courses and exams, particularly among historically marginalized populations.
2. Increase equity and access to AP STEM and English courses and exams.

As part of the Year 8 evaluation, quasi-experimental analyses[[1]](#footnote-2) specific to AP course taking and passing and AP exam taking and passing rates showed:

***AP Course Taking and Passing***

* The effect of the AP STEM and English program on the AP course taking and passing rates of historically marginalized populations was mixed.[[2]](#footnote-3)
* The program had a statistically significant positive effect on AP course taking and passing rates for students who are economically disadvantaged (*p <* .01), as well as for students who are not economically disadvantaged (*p <* .001). The rate of taking any AP course increased more for students who are not economically disadvantaged (5.62 percentage points) than it did for students who are economically disadvantaged (3.05 percentage points). Similarly, the rate of passing any AP course increased more for students who are not economically disadvantaged (4.75 percentage points) than it did for students who are economically disadvantaged (2.48 percentage points).
* The program had no statistically significant effect on AP course taking or passing rates for students who are African American / Black, Hispanic/Latino, or EL.
* The AP STEM and English program generally had a statistically significant, positive effect on student AP[[3]](#footnote-4) course taking and passing rates during the first year of participation, though results were mixed by subject and student group (e.g., ethnicity, EL status) (*p*-values ranged from *p <* .05 to *p <* .001). The intervention did not impact the rate of AP course taking or passing after the first year of program participation.
* The AP STEM and English program had a statistically significant positive effect on AP ELA and math course taking and passing rates during the first year of the intervention.
* The percentage of students *taking* ELA and math courses increased by 3.76 percentage points and 2.03 percentage points (respectively) more at participating schools than at similar non-participating schools during the first year of participation. For both ELA and math courses, *p*-values were < .001.
* The percentage of students *passing* ELA and math courses increased by 3.33 percentage points and 1.64 percentage points (respectively) more at participating schools than at similar non-participating schools during the first year of participation. For ELA courses, the *p*-value was <.001. For math courses, the *p*-value was <.01.
* The AP STEM and English program had no statistically significant effect on AP science course taking or passing rates.

***AP Exam Taking and Passing***

* The effect of the AP STEM and English program on AP exam taking and passing rates for historically underserved populations was mixed.[[4]](#footnote-5)
* The program had a statistically significant positive effect on AP exam taking and passing rates for students who are economically disadvantaged (*p <* .01), as well as for students who are not economically disadvantaged (*p <* .001). The rate of *taking* any AP exam increased more for students who are not economically disadvantaged (5.43 percentage points) than it did for students who are economically disadvantaged (2.81 percentage points). Similarly, the rate of *passing* any AP exam increased more for students who are not economically disadvantaged (2.34 percentage points) than it did for students who are economically disadvantaged (1.74 percentage points).
  + The program had no statistically significant effect on AP exam taking rates for EL.
  + The program had no statistically significant effect on AP exam passing rates for students who are African American / Black, Hispanic/Latino, Multi-Race and Non-Hispanic/Latino, EL, or students with disabilities.
* The AP STEM and English program generally had a statistically significant positive effect on student AP exam taking and passing rates during schools’ first year of participation, though results were mixed by subject and student group (*p-value*s ranged from *p <* .05 to *p <* .001). For nearly all student groups and subjects, the intervention did not impact the rate of AP exam taking or passing after the first year of program participation.
* The AP STEM and English program had a statistically significant, positive effect on AP exam taking and passing rates for ELA, math, and any (ELA, math, or science) during the first year of the intervention (*p-value*s ranged from *p <* .01 to *p <* .001).
* The percentage of students *taking* ELA, math, and any (ELA, math, or science) exams increased 5.15 percentage points, 2.17 percentage points, and 6.39 percentage points (respectively) more at participating schools than at similar non-participating schools during the first year of participation.
* The percentage of students *passing* math and science exams increased 0.72 percentage points and 0.93 percentage points (respectively) more at participating schools than at similar non-participating schools during the first year of participation.
* Nearly, all participating schools experienced an increase in the rate of AP exam participation during their first year of program participation. The proportion of schools that increased AP exam participation for specific academic discipline groupings during their first year of participation varied by cohort.
* Future analyses will need to account for the shrinking comparison group and growing dissimilarity between the participating schools and non-participating schools. Alternate—and perhaps less rigorous—weighting and modeling procedures should be considered.

Further to the findings of Year 8, descriptive quantitative analyses conducted in Year 9 and Year 10 explored AP course taking and passing and AP exam taking and passing rates in relation to school characteristics for all students and students from historically marginalized communities. The findings of those studies led to examining the AP course taking and passing and AP exam taking and passing outcomes in relation to gender and specific student groups of interest. Specifically, in considering these findings, the current report (Year 11) provides a summary of descriptive quantitative analyses conducted to further explore AP course taking and passing and AP exam taking and passing rates—for students from historically marginalized communities—including, students who are African American / Black females, African American / Black males, Hispanic/Latino females, and Hispanic/Latino males—and aims to respond to the following questions:

1. At which participating schools did the rate of change of any (ELA, math, or science) AP course/exam taking and passing most increase (and decrease) for student groups of interest, including African American / Black female students, African American / Black male students, Hispanic/Latino female students, and Hispanic/Latino male students, as a function of school size (number of students), urban-suburban-rural designation, percent takers (or passers) before intervention, percent of teachers who attended at least one APSI training, percent of teachers who attended at least one APSI training and were retained, and percent of AP teachers who are teachers of color?
2. At which participating schools did the rate of change of AP science course/exam taking and passing most increase (and decrease) for student groups of interest, including African American / Black female students, African American / Black male students, Hispanic/Latino female students, and Hispanic/Latino male students, as a function of school size (number of students), urban-suburban-rural designation, percent takers (or passers) before intervention, percent of teachers who attended at least one APSI training, percent of teachers who attended at least one APSI training and were retained, and percent of AP teachers who are teachers of color?

UMDI used administrative data from DESE to address these questions.

# Introduction

The Massachusetts Department of Elementary and Secondary Education (DESE) is engaged in numerous initiatives to increase the college and career readiness of students in the Commonwealth, to reduce proficiency gaps and improve academic achievement for all student groups, and to enhance the “STEM pipeline” of students who are interested in and well prepared for postsecondary education and careers in science, technology, engineering, and mathematics (including computer science).

One of these initiatives is the AP STEM and English program (hereafter, “the program”). As specified by DESE, the goals[[5]](#footnote-6) of the program are to:

1. Increase AP science, mathematics, and ELA course availability, particularly at schools with limited AP science, mathematics, and ELA offerings and high percentages of students who are from historically marginalized communities.
2. Increase historically marginalized students’ participation in AP science, mathematics, and ELA courses, such that the demographics of these courses better reflect the diversity of the student population of the school and district.
3. Increase student performance in AP science, mathematics, and ELA courses.
4. Increase the number of students taking AP exams, particularly students who are from historically marginalized communities.
5. Increase the number of students scoring a 3 or higher on AP exams, particularly underrepresented minority students and students who are economically disadvantaged.
6. Increase readiness for college-level study in science, mathematics, and ELA fields.
7. Improve science, mathematics, and ELA teacher effectiveness, including content knowledge and pedagogical skills.

To meet these program goals and track efforts to improve student achievement, DESE contracted with Mass Insight Education and Research (Mi) to implement tasks and responsibilities aligned with the purposes of the program. Mi has administered the program since the initiative’s inception in 2007, including under the program’s previous name, Mass Math + Science Initiative’s (MMSI) “Advanced Placement Training and Awards Program.”

Mi’s first cohort of the program was comprised of eight schools during the 2008–09 academic year. The program welcomed its 15th cohort of schools during the 2022–23 academic year. While Mi has evolved their program to continue meeting the needs of participating schools, the key tasks implemented by the program have been consistent over time. Namely, Mi aims to do the following in each participating school:

1. Increase participation and improve performance in AP science, mathematics, and ELA courses and on exams, with a focus on students who are from historically marginalized communities.
2. Increase the effectiveness of AP science, mathematics, and ELA teachers.
3. Increase the number of new and/or additional AP science, mathematics, and ELA courses offered by districts and schools in the Commonwealth.
4. Develop collaborations with other existing and/or newly established AP initiatives or organizations to build a robust and collaborative support system for students who are from historically marginalized communities, their parent(s)/guardian(s), and teachers.

In their work to complete these tasks, Mi is responsible for a variety of activities that fall into three main tiers of assistance: (1) teacher supports, (2) student supports, and (3) school supports. Specific examples of these forms of assistance include, but are not limited to, maintaining partnerships with schools with high percentages of students who are from historically marginalized communities, encouraging recruitment of students who are from historically marginalized communities into AP science and mathematics classes, providing exam fee subsidies to students who are economically disadvantaged, and supporting professional development for STEM AP teachers.

DESE contracted with the University of Massachusetts Donahue Institute (UMDI) to conduct the evaluation of the Mi program. UMDI previously submitted interim and final evaluation reports for Years 1–10. Considering the Year 8, Year 9, and Year 10 findings, this report for the Year 11 evaluation provides a summary of the descriptive quantitative analyses conducted to explore further the performance of participating schools relevant to AP course taking and passing and AP exam taking and passing—for students who are from historically marginalized communities including students who are African American / Black females, African American / Black males, Hispanic/Latino females, and Hispanic/Latino males.

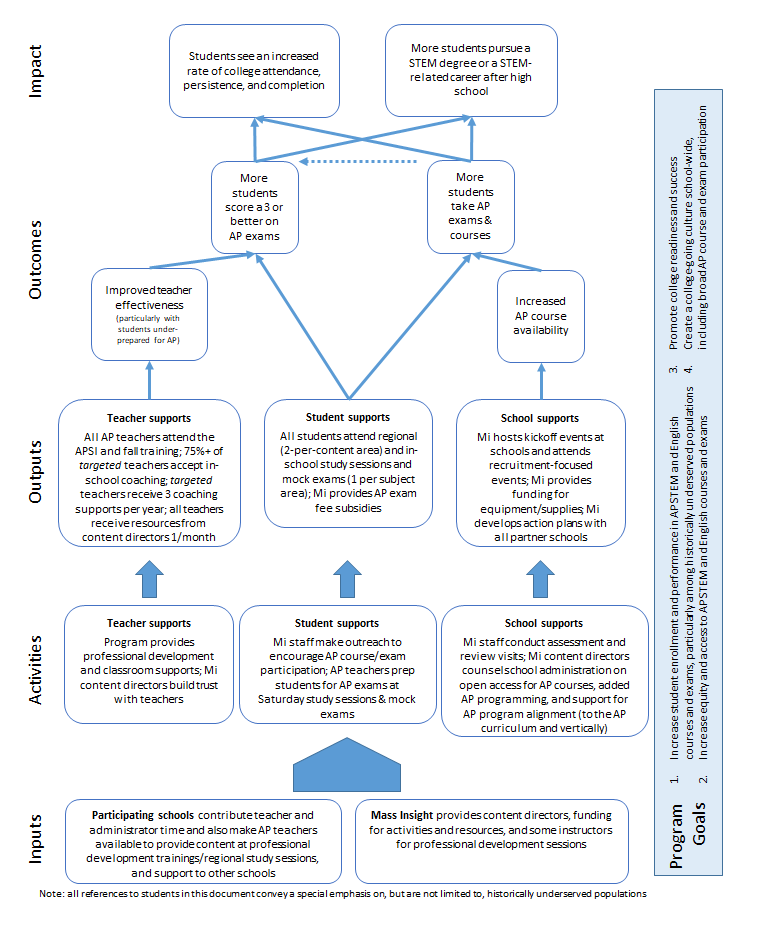
This report is organized into four main sections. The first three sections—[Evaluation Design](#_Evaluation_Design_1), [Data and Data Analysis](#_Data_and_Data_1), and [Methods](#_Methods_1)—provide an overarching description of the Year 11 analyses and summarizes points considered in the methods of the analyses. The fourth section—[Findings](#_Findings)—presents the key results from the descriptive quantitative analyses.

# Evaluation Design

The Year 11 evaluation was designed to expand upon the work completed during the last four years—Year 7, Year 8, Year 9, and Year 10. As part of the Year 8 evaluation, a quasi-experimental analysis was used to assess program impacts on AP course taking and passing and AP exam taking and passing for participating schools.[[6]](#footnote-7) The current evaluation further builds on the analyses completed during Year 8 and is directly related to the program’s logic model (Figure 1), which was updated during Year 7. Please note, the Logic Model is aspirational. The extent to which the activities and outcomes suggested in this model have been implemented/achieved by Mi and/or participating schools has not yet been documented. UMDI acknowledges that Mi included a new Logic Model in their latest response to DESE’s call for proposals. The Logic Model from Year 7 is being referred to in the current report as, to the best of our knowledge, it best reflects the AP STEM and English program during the time periods being included in the evaluation.

**Figure 1**

*AP STEM and English Program Logic Model*

The Year 11 evaluation study further explores one of the four outcomes included in the Logic Model (see Figure 1 above)—that more students at participating schools will take and pass AP courses and exams. More specifically, the current study sheds some light on the ways in which the following two program goals are being met:

1. Increase student enrollment and performance in AP STEM and English courses and exams, particularly among historically marginalized populations.
2. Increase equity and access to AP STEM and English courses and exams.

Evaluation questions used to guide our work during Year 11 include:

1. At which participating schools did the rate of change of any (ELA, math, or science) AP course/exam taking and passing most increase (and decrease) for student groups of interest, including African American / Black female students, African American / Black male students, Hispanic/Latino female students, and Hispanic/Latino male students, as a function of school size (number of students), urban-suburban-rural designation, percent takers (or passers) before intervention, percent of teachers who attended at least one APSI training, percent of teachers who attended at least one APSI training and were retained, and percent of AP teachers who are teachers of color?
2. At which participating schools did the rate of change of AP science course/exam taking and passing most increase (and decrease) for student groups of interest, including African American / Black female students, African American / Black male students, Hispanic/Latino female students, and Hispanic/Latino male students, as a function of school size (number of students), urban-suburban-rural designation, percent takers (or passers) before intervention, percent of teachers who attended at least one APSI training, percent of teachers who attended at least one APSI training and were retained, and percent of AP teachers who are teachers of color?

To address these questions, the Year 11 report provides descriptive quantitative information summarizing (1) the identification and application of definitions of “highest performing” and “lowest performing” schools relevant to AP course taking and passing and AP exam taking and passing, (2) the identification and application of definitions of characteristics of interest (school size (number of students), urban-suburban-rural designation, percent takers (or passers) before intervention, percent of teachers attending at least one APSI training, rate of teacher retention, and percent of AP teachers who are teachers of color), and (3) similarities among schools having achieved various levels of performance.

# Data and Data Analysis

This report includes a summary of descriptive analyses of schools that participated in Mi programming. Schools were characterized as highest performing or lowest performing based on AP course taking or passing for any (ELA, math, or science) AP or AP science course, as well as AP exam taking and passing for any (ELA, math, or science) AP or AP science exam for:

African American / Black female students

African American / Black male students

Hispanic/Latino female students

Hispanic/Latino male students

“Highest Performing” and “Lowest Performing” were identified for AP course taking and passing, as well as AP exam taking and passing. Highest performing schools were defined as the top quartile of schools concerning percent change in AP course/exam taking and passing, and lowest performing schools were defined as the bottom quartile of schools concerning percent change in AP course/exam taking and passing. These definitions and concurrent analyses—which are described in further detail in the Methods section—were completed with schools that started the intervention from SY13–SY17 (Cohorts V–IX). Earlier and later cohorts are not included because the intention was to examine changes in AP course taking and passing and AP exam taking and passing one year, three years, and six years after initial participation. In total, 55 participating schools were included. The actual number of schools included in each analysis varied by subject, by outcome (taking/passing), by time interval (one year after/three years after), and by student group.

The performance levels were further examined using characteristics specific to the school, the schools’ teachers and the school’s AP course taking and passing and AP exam taking and passing rates (i.e., school size (number of students), urban-suburban-rural designation, percent takers (or passers) before intervention, percent of teachers who attended at least one AP Summer Institute (APSI)[[7]](#footnote-8) during the schools’ three years core status, percent of teachers who attended at least one APSI during the schools’ three years of core status and were retained at school three years after core ends, and percent of AP teachers who are teachers of color).

These descriptive analyses are based on AP course data, from the Student Course Schedule (SCS) data file, provided by DESE from SY11 to SY19.[[8]](#footnote-9) Data were merged with corresponding Student Information Management System (SIMS) data to identify key demographic information for participating students—where participating students were those in grades 9–12 and were enrolled in schools that are part of the AP STEM and English program. The newly merged data file included key information on which students were considered AP ELA, math, and science course takers, AP course passers, AP exam takers, and AP exam passers. To be considered a course passer, a student must have (1) completed the AP course, (2) earned credit, and (3) received a passing letter or numeric grade within the AP course. To be considered an exam taker, a student must have taken one or more AP ELA, math, or science exam, and to be considered an exam passer a student must have scored a three or better on at least one of their AP ELA, math, or science exams. Two of the characteristics used—school size (number of students) and percent AP course/exam takers (or passers) before intervention—were determined using SCS and SIMS data. One characteristic—urban-suburban-rural designation—was determined for each school using the 2019 data from National Center for Educational Statistics (see the Methods section for more information). For school-level teacher characteristics, the teacher training dataset, provided by Mi, was used to identify the percent of teachers who attended at least one APSI during the schools’ three years of core status. Then, the teacher training dataset was merged with DESE’s Education Personnel Information Management System (EPIMS) datasets (SY12 to SY21) to calculate the percent of teachers who attended at least one APSI during the schools’ three years of core status and were retained at their school three years after core status ends. The last characteristic, percent of AP teachers who are teachers of color, was also informed by EPIMS.

This report summarizes the results of descriptive analyses that explored the performance of schools participating in AP STEM and English relevant to AP course taking and passing and AP exam taking and passing. Quantitative results are presented by subject (i.e., any (ELA, math, or science) AP courses and exams, and AP science courses and exams) and student group (including African American / Black female students, African American / Black male students, Hispanic/Latino female students, and Hispanic/Latino male students). The results will explore the performance of participating schools relevant to AP course taking and passing and AP exam taking and passing as follows:

* the percentage point change (as a percentage)—from the year before participation began—of students taking and passing any (ELA, math, or science) AP course (or exam) or AP science course (or exam), for student groups of interest, one year and three years after intervention;
* the classification of participating schools as “highest performing” or “lowest performing” using the percentage point change in AP course (or exam) taking and passing rates; and
* examining “highest performing” and “lowest performing” participating schools for characteristics specific to the schools’ teachers and the school’s AP course (or exam) taking and passing rates (i.e., school size (number of students), urban-suburban-rural designation, percent takers (or passers) before intervention, percent of teachers who attended at least one APSI during the schools’ three years of core status, percent of teachers who attended at least one APSI during the schools’ three years of core status and were retained at their school three years after core status ends, and percent of AP teachers who are teachers of color).

A summary of results is presented in the “Findings” section. A full set of results are provided in [Appendix A](#_Appendix_A:_Percentage), [Appendix B](#_Appendix_B:_Percentage), and [Appendix C](#_Appendix_C:_Assessing).

# Methods

The AP STEM and English program is primarily a school-level intervention. As such, descriptive and exploratory analyses of participation and outcome data were conducted at the school level. Specifically, the performance of participating AP STEM and English schools relevant to AP course taking and passing and AP exam taking and passing—for African American / Black females, African American / Black males, Hispanic/Latino females, and Hispanic/Latino males—were conducted at the school level.

During Year 8, the impacts of the AP STEM and English program were assessed for AP course taking and passing and AP exam taking and passing rates. Rates for course taking/passing were calculated as the number of students taking/passing an AP ELA, math, or science course divided by the total number of enrolled high school students in a school.[[9]](#footnote-10),[[10]](#footnote-11),[[11]](#footnote-12) Similarly, rates for exam taking/passing[[12]](#footnote-13) were calculated as the number of students taking/passing an AP ELA, math, or science exam divided by the total number of enrolled high school students in a school. These calculated AP course taking and passing and AP exam taking and passing rates are the foundation of the current analyses.

The performance of participating AP STEM and English schools relevant to AP course taking and passing and AP exam taking and passing—for African American / Black females, African American / Black males, Hispanic/Latino females, and Hispanic/Latino males—were calculated to identify the schools that were “highest performing” and “lowest performing.” While we understand that the terms “highest performing” and “lowest performing” do not fully capture the complexities of AP course taking and passing and AP exam taking and passing, for this analysis they will be used to describe the commonalities and differences among various school AP course taking and passing rates and AP exam taking and passing rates in relation to these student groups of interest. These analyses further quantify (descriptively) the variation in performance changes in AP course taking and passing and AP exam taking and passing that schools experience over time. This analysis does not intend to illuminate *why* this happens but rather to illustrate the extent to which it is a “real” phenomenon, and perhaps to identify similarities among schools that have achieved various outcomes relative to students from historically marginalized communities.

The analyses summarized in this report are descriptive, not inferential. This report illustrates and describes patterns in the raw outcome data, and we did not control for factors—such as student-teacher ratio—that may contribute to (e.g., covary with or confound) the patterns described in this report. The report does not describe why specific patterns or outcomes occurred. Also, due to data availability constraints, outcomes for only a subset of participating schools—those for which all necessary data were available—are represented in this report. As a result, the patterns and outcomes observed for this subset of schools may differ from outcomes for other schools that have participated in the intervention.

**Measures**

The percentage point change in AP course taking or passing rates and AP exam taking or passing rates from one year before intervention to one or three years after intervention formed the basis for exploring the performance of participating schools. The analyses focused on four AP course/exam types based on Year 8 analysis results: (1) any (ELA, math, or science) AP course, (2) AP science course, (3) any (ELA, math, or science) AP exam, and (4) AP science exam. Measures were calculated for specific student groups of interest: (1) African American / Black females, (2) African American / Black males, (3) Hispanic/Latino females, and (4) Hispanic/Latino males. This resulted in 64 possible measures on which to explore the performance of participating schools relevant to AP course taking and passing and AP exam taking and passing.

**Highest Performing and Lowest Performing Cutoffs**

The highest and lowest performing schools were determined for each of the measures using the top and bottom quartiles (25%) of observations, respectively. In this way, schools were classified as having higher, middle, or lower levels of change in rates of AP course taking and passing and AP exam taking and passing one and three years after the intervention. Schools appearing in the bottom quartile of observations were described as “lowest performing” for that measure. Schools appearing in the top quartile of observations were described as “highest performing” for that measure. Schools with values for a measure being in the middle 50% of observations saw moderate or no change in performance and were described as “middle performing.” In some instances, the value indicating the boundary of the bottom quartile or top quartile of observations was the value of the measure for more than one school (most commonly, they shared a value of zero). In these instances, these schools were not included in the lowest or highest performing category.

**Characteristics**

A set of six characteristics were considered when looking for similarities among the schools that achieved certain performance levels:

* school size (number of students),
* urban, suburban, and rural designation,
* percent AP course/exam takers (or passers) before intervention,
* percent of teachers who attended at least one APSI during the schools’ three years of core status (percent teachers who attended at least one APSI training), [[13]](#footnote-14)
* percent of teachers who attended at least one APSI during the schools’ three years of core status and were retained at school three years after core ends (percent teachers who attended at least one APSI training and were retained), [[14]](#footnote-15) and
* percent of AP teachers who are teachers of color as of third year of core status (percent AP teachers who are teachers of color).[[15]](#footnote-16)

Other characteristics could be considered in future analyses, such as dropout rates, per pupil expenditures, and student growth percentile. These were not used in the current analyses due to the scope of the evaluation.

Two of the characteristics used—school size (number of students) and percent AP course/exam takers (or passers) before intervention—were determined using the prepared dataset based on SCS and SIMS data.

One characteristic—urban-suburban-rural designation—was determined for each school using the 2019 data from National Center for Educational Statistics (NCES).[[16]](#footnote-17) The NCES locale framework is based on the U.S. Census Bureau definition of urban and rural. The locale classifications and criteria of the NCES locale framework are composed of four basic types (City, Suburban, Town, and Rural) that each contains three subtypes. These subtypes are differentiated by size (in the case of City and Suburban assignments) and proximity (in the case of Town and Rural assignments). For this research, the NCES locale framework was collapsed into a basic urban, suburban, or rural trichotomy. While most schools fit into one specific category, three towns (Lee, Nantucket, and North Brookfield) did not have clearly assigned designations (i.e., they were between rural/town). Using additional information known about the area—surrounding business and terrain, location within Massachusetts, other characteristics of the location—it was determined that, for this analysis, they should be coded as rural areas.

The remaining three characteristics investigated—percent teachers who attended at least one APSI training, percent teachers who attended at least one APSI training and were retained, and percent AP teachers who are teachers of color— were determined using the prepared dataset based on teacher training data (provided by Mi) and the Education Personnel Information Management System (EPIMS) data.

These six characteristics are meant to simply describe the schools quantitatively with respect to the schools and teachers and are also (potentially) relevant to AP course taking and passing and AP exam taking and passing.

# Findings

This section presents findings related to participating schools’ performance levels for students who are from historically marginalized communities (African American / Black females, African American / Black males, Hispanic/Latino females, and Hispanic/Latino males) relevant to AP course taking and passing and AP exam taking and passing. Findings are organized into three subsections:

* The first subsection summarizes the “highest performing” and “lowest performing” classifications based on the results of descriptive analyses. The plots shown in Figures 2 – 5 illustrate the borders of the highest and lowest performing school cutoffs (i.e., the “box” of the box-and-whisker plot), and they show the overall extent to which schools saw changes in the outcomes analyzed for each student group of interest.
* The second subsection summarizes school-level descriptive statistics related to six characteristics of interest— school size (number of students), urban-suburban-rural designation, percent takers (or passers) before intervention, teachers who attended at least one APSI training, teachers who attended at least one APSI training and were retained, and AP teachers who are teachers of color.
* The third subsection explores the relationship between school performance levels for student groups of interest and six characteristics of interest—school size (number of students), urban-suburban-rural designation, percent takers (or passers) before intervention, teachers who attended at least one APSI training, teachers who attended at least one APSI training and were retained, and AP teachers who are teachers of color.

The interpretation of findings within this section requires the consideration of several important notes about AP course and exam taking and passing rates, including:

***AP Course Taking and Passing***

1. Students at participating schools were considered an AP course taker if they were enrolled in one or more AP ELA, math, or science course. As the AP STEM and English program aims to increase the proportion of students enrolling in AP courses, the percentage of AP STEM and English course takers was calculated using the total number of students enrolled in 9th–12th grade at the school as the denominator—as opposed to using the total number of students enrolled in AP courses.
2. Students at participating schools were considered an AP course passer if they (1) completed the course, (2) earned credit, and (3) received a passing letter or numeric grade within at least one of the AP STEM and English courses they were enrolled in. The percentage of AP STEM and English course passers is defined as the number of students passing one or more AP course divided by the total number of students enrolled in 9th–12th grade at the school.

***AP Exam Taking and Passing***

1. Students at participating schools were considered an AP exam taker if they took one or more AP ELA, math, or science exam. As the AP STEM and English program aims to increase the proportion of students enrolling in AP exams, the percentage of AP STEM and English exam takers was calculated using the total number of students enrolled in 9th–12th grade at the school as the denominator—as opposed to using the total number of students taking AP exams for any subject.
2. Students at participating schools were considered an AP exam passer if they received a score of 3 or better for at least one of the AP STEM and English exams they took. The percentage of AP STEM and English exam passers is defined as the number of students passing one or more AP exam divided by the total number of students enrolled in 9th–12th grade at the school.

To see full results of all AP course taking and passing and AP exam taking and passing descriptive analyses, please see [Appendix A](#_Appendix_A:_Percentage), [Appendix B](#_Appendix_B:_Percentage), and [Appendix C](#_Appendix_C:_Assessing).

|  |
| --- |
| Summary of Key Findings |
| * The majority of the highest performing schools—in relation to AP course taking and passing—for most student groups, were suburban.      * + Highest performing schools tended to be suburban or rural for Hispanic/Latino females.   + Highest performing schools for African American / Black males were overwhelmingly suburban, and lowest performing schools were overwhelmingly urban. This relationship was not observed for African American / Black females. * Highest performing schools—in relation to AP course taking and passing and AP exam taking and passing—for both Hispanic/Latino females and Hispanic/Latino males tended to be those where at least 20% of all ELA, math, or science AP teachers attended at least one APSI training. For African American / Black females and African American / Black males, this relationship was only observed in relation to AP exam taking and passing.   + Lowest performing schools—in relation to AP course taking and passing and AP exam taking and passing—for the majority of student groups, tended to be those where less than 20–40% of all ELA, math, or science teachers attended at least one APSI training, depending on the student group and outcome. * Highest performing schools—in relation to AP course taking and passing and AP exam taking and passing—for most student groups, tended to have a high percentage (60% or more) of teachers who attended at least one APSI training and were retained three years after core status. * Given that a minority of schools have AP teachers who are teachers of color, both the highest performing schools *and* the lowest performing schools—in relationship to AP course taking and passing and AP exam taking and passing—tended to be schools where at most 0–20% of AP teachers were teachers of color. * Highest performing schools—in relation to AP course taking and passing—for the majority of student groups, tended to have a very low percentage of course takers (or passers) before intervention. This was most noticeable for African American / Black males and Hispanic/Latino males. * Lowest performing schools—in relation to AP course taking and passing—for African American / Black males and Hispanic/Latino males also tended to be those with higher percentages of course takers (or passers) before intervention. |

## Highest Performing and Lowest Performing Schools

The percentage point change in AP course taking and passing rates and AP exam taking and passing rates from the year before intervention to one or three years after intervention were calculated for (1) any (ELA, math, or science) AP course/exam and (2) AP science course/exam. These outcomes were assessed for each of the following groups separately:

1. African American / Black female students
2. African American / Black male students
3. Hispanic/Latino female students
4. Hispanic/Latino male students

The top and bottom quartiles were used to identify schools that were “highest performing” and “lowest performing” with respect to each specific measure (please see the [Methods](#_Methods_1) for further detail).

In general, the number of highest (or lowest) performing schools varied across AP course taking and passing, AP exam taking and passing, and student group due to (1) the number of schools in the sample, and (2) the number of schools in the sample having a student group with .[[17]](#footnote-18) Please see [Appendix A](#_Appendix_A:_Percentage) and [Appendix B](#_Appendix_B:_Percentage) to view school lists and values for all measures.

As shown in Figures 2 and 3, one and three years after intervention, the range[[18]](#footnote-19) of participating schools’ percentage point change in AP course taking and passing from the year before intervention were comparable between the four student groups, although the range for Hispanic/Latino females concerning any (ELA, math, or science) AP course taking and passing was larger. In general, the ranges for AP science course taking and passing were smaller than those for any AP course taking and passing for all student groups, suggesting that there was less change in school AP science course taking and passing rates after program participation. For example, most of the highest performing schools for Hispanic/Latino female students concerning AP course passing for any (ELA, math, or science) AP course one year after the intervention saw anywhere from a 7% to a 29% increase in course passing rates. In contrast, the highest performing schools for Hispanic/Latino female students concerning AP science course passing one year after the intervention saw anywhere from a 4% to a 20% increase in AP science course passing rates.

#### Figure 2

#### *Participating Schools Percentage Point Change in Any (ELA, Math, or Science) AP and AP Science Course Takers and Passers, One Year After Intervention, by Student Group*

|  |  |
| --- | --- |
| A – Any (ELA, math, or science) AP course takers | B – AP science course takers |
|  |  |
|  |  |
|  |  |
| C – Any (ELA, math, or science) AP course passers | D – AP science course passers |
|  |  |

#### Figure 3

#### *Participating Schools Percentage Point Change in Any (ELA, Math, or Science) AP and AP Science Course Takers and Passers, Three Years After Intervention, by Student Group*

|  |  |
| --- | --- |
| A – Any (ELA, math, or science) AP course takers | B – AP science course takers |
|  |  |
|  |  |
|  |  |
|  |  |
| C – Any (ELA, math, or science) AP course passers | D – AP science course passers |
|  |  |

For AP course taking and passing, the upper bound of the bottom quartile—when identifying the lowest performing schools—tended to hover at 0 or a few percentage points below 0, indicating little to no change or a declining rate of AP course taking and passing, depending on the course subject and student group considered. Interestingly, one year after the intervention, Hispanic/Latino females and Hispanic/Latino males have comparable upper bounds with respect to change in AP course taking and passing. However, three years after the intervention, the upper bound for Hispanic/Latino females is higher than the upper bound for Hispanic/Latino males. For example, the upper bound for change in any (ELA, math, or science) course taking three years after intervention for Hispanic/Latino males was -3.4 percentage points, whereas for Hispanic/Latino females the upper bound was higher at 0.4 percentage points. In some cases, this difference was also observed for African American / Black female and African American / Black male students.

For AP course taking and passing, the lower bound for the top quartile identifying the highest performing schools (see Figures 2 and 3), was slightly more varied, as follows:

1. One year after the intervention, the lower bound of the top quartile was mostly comparable across all student groups. Hispanic/Latino female students did have a higher lower bound for any (ELA, math, or science) AP course takers, and African American / Black male students had a higher lower bound for AP science course passers.
2. Three years after the intervention, the lower bounds for Hispanic/Latino females and males sharply diverged, with Hispanic/Latino female students having a higher lower bound (in some cases, over twice as high) than Hispanic/Latino male students.
3. The lower bounds for AP course taking and passing were comparable to each other.
4. Lower bounds for AP science course taking and passing tended to be lower than the bounds for any (ELA, math, or science) AP course taking and passing. Hispanic/Latino female students generally saw the biggest discrepancies between any AP and AP science course taking and passing.

As shown in Figures 4 and 5, the ranges for AP exam taking and passing rates are, in general, smaller than those of AP course taking and passing rates for all student groups. The ranges for AP science exam taking and passing also tend to be smaller than for any (ELA, math, or science) AP. For example, most of the highest performing schools in any AP (ELA, math, or science) exam taking three years after the intervention for African American / Black male students saw anywhere from a 10% to a 16% increase in any (ELA, math, or science) AP exam taking. In contrast, most of the highest performing schools in AP science exam taking three years after the intervention for African American / Black male students concerning saw anywhere from a 4% to an 11% increase in AP science exam taking. Of the AP exam taking and passing outcomes, the ranges for AP science exam passing are by far the smallest (both one and three years after the intervention). The ranges for the four student groups are similar, with some exceptions. The ranges for Hispanic/Latino female students are larger than the other student groups in some cases. Additionally, the range for African American / Black female students is larger than the other student groups, specifically for AP science exam passing three years after the intervention.

#### Figure 4

#### *Participating Schools Percentage Point Change in Any (ELA, Math, or Science) AP and AP Science Exam Takers and Passers, One Year After Intervention, by Student Group*

|  |  |
| --- | --- |
| A – Any (ELA, math, or science) AP exam takers | B – AP science exam takers |
|  |  |
|  |  |
|  |  |
|  |  |
| C – Any (ELA, math, or science) AP exam passers | D – AP science exam passers |
|  |  |

#### Figure 5

#### *Participating Schools Percentage Point Change in Any (ELA, Math, or Science) AP and AP Science Exam Takers and Passers, Three Years After Intervention, by Student Group*

|  |  |
| --- | --- |
| A – Any (ELA, math, or science) AP exam takers | B – AP science exam takers |
|  |  |
|  |  |
|  |  |
|  |  |
| C – Any (ELA, math, or science) AP exam passers | D – AP science exam passers |
|  |  |

For AP exam taking and passing, the upper bound of the lower quartile—when identifying the lowest performing schools—was approximately 0 percentage points (see Figures 4 and 5), indicating little to no change for AP course taking and passing, depending on the course subject and student group considered. In the case of Hispanic/Latino females and Hispanic/Latino males, any (ELA, math, or science) AP exam takers, three years after intervention, the cutoff for identifying the lowest performing schools was slightly below zero (Panel A of Figure 5).

For AP exam taking and passing, the lower bound for the top quartile identifying the highest performing schools (see Figures 4 and 5), was a little more varied.

1. The lower bounds of the top quartile concerning AP exam taking and passing were smaller than those for AP course taking and passing.
2. The lower bounds for AP science exam passing were very small, rarely above a single percentage point.
3. One year after the intervention, lower bounds for the four student groups were in general comparable to each other. However, Hispanic/Latino females did have a higher lower bound for any (ELA, math, or science) AP exam takers.
4. Three years after the intervention, lower bounds for AP exam taking and passing, unlike AP course taking and passing, for Hispanic/Latino female students were only slightly higher than the lower bounds for Hispanic/Latino male students.
5. Three years after the intervention, the lower bounds for any AP and AP science exam passing for African American / Black female students were higher than the lower bounds for African American / Black male students.

These descriptive results are consistent with the following quasi-experimental results from the Year 8 analyses:

***AP Course Taking and Passing***

* The AP STEM and English program had no statistically significant effect on AP science course taking or passing rates.
* The AP STEM and English program had no statistically significant effect on AP course taking or passing rates for students who are African American / Black, Hispanic/Latino, or English language learners (EL).

***AP Exam Taking and Passing***

* The AP STEM and English program had no statistically significant effect on AP science exam taking and passing rates.
* The AP STEM and English program had a statistically significant, positive effect on AP exam taking and passing rates for any (ELA, math, or science) during the first year of the intervention.
* The AP STEM and English program had no statistically significant effect on AP exam passing rates for students who are African American / Black, students who are Hispanic/Latino, and students who are EL.

## Characteristics

Two of the characteristics analyzed in this report were based on whether teachers attended at least one APSI training in either (1) any (ELA, math, or science) AP or (2) AP science, during the schools’ three years in core status. Most teachers attended anywhere from one to three APSI trainings (with a few outlier cases of teachers having attended as many as five). A cutoff value of attending at least one APSI training was chosen, in part, due to the number of teachers who attended two or more APSI trainings was small enough to threaten the ability to conduct proper analyses. Notably, 24% of all teachers at AP STEM and English program schools teaching ELA, math or science attended at least one APSI training for any (ELA, math, or science) AP course (See Table 1). In contrast, only 10% of all teachers of ELA, math, or science at those schools attended two or more APSI trainings for any (ELA, math, or science) AP. That is, only 42% of teachers who attended one APSI training in any AP course went on to attend a second training. Similarly, about 27% of all science teachers attended at least one AP science APSI training. In contrast, about 10% of all science teachers attended two or more APSI trainings for AP science. Hence, approximately 37% of AP science teachers who attended one APSI training went on to attend a second training.

The number of schools that could be included in the analyses would be severely limited if the number of trainings attended were increased from at least one APSI training attended to two or more. Initially, there were 55 schools in our sample. Five of those schools (over 9% of our sample) did not have any ELA, math or science teachers who attended two or more APSI trainings in any (ELA, math, or science) AP course. For AP science, the difference was even greater as only 29 schools had any science teachers who had attended two or more AP science APSI trainings. Please see the AP STEM and English Year 10 Evaluation Report, [Appendix D](#_Appendix_D:_Number) for the number and percent of each characteristic by school.

#### Table 1

*Number and Percent of Teachers Attended APSI Trainings, by AP Subject*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| AP Subject | APSI Trainings Attended | | | |
| One | Two | Three or More | Any |
| Any (ELA, math, or science) | 14% (262) | 9% (171) | 1% (18) | 24% (451) |
|  |
| Science | 17% (98) | 9% (53) | 1% (4) | 27% (155) |  |
|  |

For the second characteristic—percent teachers who attended at least one APSI training and were retained—moving from at least one APSI training attended to two or more APSI trainings attended would also substantially impact the ability to conduct analyses. First, although 44 out of 46 schools (95%) had any teachers who had attended at least one APSI in any (ELA, math, or science) AP course and then were retained three years after core status, that number is reduced to 35 schools (76%) if restricted to attendance of two or more APSI trainings. For AP science, only 37 schools (80%) had AP science teachers who attended at least one science APSI training and were retained. Only 18 schools (39%) had any teachers who attended two or more science APSI trainings and were retained. Further, Table 2 shows the number and percent of teachers that attended APSI trainings and were retained three years after the last year of core. Only 8% (8%) of teachers attended two or more APSI trainings in any (ELA, math, or science) AP (AP science) course and were retained. However, 17% (18%) of teachers attended one or more APSI trainings in any AP (AP science) course and were retained.

#### Table 2

*Number and Percent of Teachers Attended APSI Trainings and Retained Three Years After the Last Year of Core, by AP Subject*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| AP Subject | APSI Trainings Attended and Retained Three Year After the Last Year of Core | | | |
| One | Two | Three or More | Any |
| Any (ELA, math, or science) | 9% (153) | 7% (115) | 1% (14) | 17% (282) |
|  |
| Science | 11% (56) | 7% (33) | 1% (4) | 18% (93) |  |
|  |

The third and final characteristic concerned the percentage of AP teachers who were teachers of color. Approximately 7% of AP teachers were teachers of color in the average school for our analyses concerning any (ELA, math, or science) AP teachers, and 9% of AP teachers were teachers of color in the average school for our analyses concerning AP science teachers (Table 3). Thirty-three out of the 55 schools did not have any teachers of color for any (ELA, math, or science) AP course. Additionally, 39 out of the 55 schools did not have any teachers of color for AP science courses.

#### Table 3

*Number and Percent of AP Teachers Who Are Teachers of Color, by AP Subject*

|  |  |
| --- | --- |
| AP Subject | AP Teachers Who Are Teachers of Color |
|  |
| Any (ELA, math, or science) | 7% (30) |  |
|  |
| Science | 9% (13) |  |
|  |

## School Performance Levels and Characteristics

What follows is an attempt to identify similarities among schools that achieved various performance levels. A set of six characteristics were considered when assessing similarities:

* school size (number of students),
* urban-suburban-rural designation,
* percent takers (or passers) before intervention,
* percent of teachers who attended at least one APSI during the schools’ three years of core status (percent teachers who attended at least one APSI training),
* percent of teachers who attended at least one APSI during the schools’ three years of core status and were retained at school three years after core ends (percent teachers who attended at least one APSI training and were retained), and
* percent of AP teachers who are teachers of color as of third year of core status (percent AP teachers who are teachers of color).

Using scatterplots, the 64 measures—varying course or exam (2), course/exam type (2), taking or passing (2), one or three years after the intervention (2), and student group (4)—were plotted against each of the six characteristics. Note that for the last three characteristics, only measures that occurred three years after the intervention were examined. Altogether, 288 figures were created. Highest, middle, and lowest performing schools were indicated on the scatterplots using symbols. Numbers identify the schools. Please see [Appendix C](#_Appendix_C:_Assessing) to view all scatterplots.

***School Size***

Overall, observed relationships between school performance and school size were the least informative. Nonetheless, in some cases lowest performing schools—in relation to AP course taking and passing—were clustered at lower levels of school size, generally less than 500–1,000 students. This was most noticeable in relation to Hispanic/Latino female and Hispanic/Latino male students.

***Urban-suburban-rural Designation***

In general, highest performing schools—in relation to AP course taking and passing—were mostly suburban. However, some important differences across the four student groups did emerge. For Hispanic/Latino female students, highest performing schools were mostly suburban or *rural*. Most notably, highest performing schools for African American / Black male students were overwhelmingly suburban, and lowest performing schools for African American / Black male students were overwhelmingly urban. This relationship was not observed for African American / Black female students.

***Percent Takers (or Passers) Before Intervention***

Observations concerning school performance and the percentage of takers (or passers) before intervention varied across student groups. For African American / Black male students, highest performing schools tended to be schools with very low percentages of takers (or passers) before the intervention began. This relationship was less noticeable for African American / Black female students, except for AP science course taking and passing. For Hispanic/Latino males, highest performing schools tended to be schools with very low percentages of takers (or passers) before the intervention began, especially for AP science course taking and passing. In contrast, for Hispanic/Latino female students, this observation was only noticeable for AP science course taking and passing three years after the intervention began.

For African American / Black male students, lowest performing schools tended to be those where the percentage of takers (or passers) before intervention was higher (generally, 2–5% takers (or passers) before intervention, depending on the AP subject and time interval). In contrast, for African American / Black female students, this relationship was only observed for AP science course taking and passing one year after the intervention began. For Hispanic/Latino male students, lowest performing schools tended to be those where the level of percent takers/passers before intervention was higher (generally, 5% takers (or passers) before intervention). In contrast, relationships between lowest performing schools and the percent takers (or passers) before intervention were difficult to observe for Hispanic/Latino female students.

Overall, observed relationships between school performance and percentage of takers/passers before the intervention began were more noticeable for the two male student groups compared to their female counterparts.

***Percent Teachers Who Attended At Least One APSI Training***

In relation to AP course taking and passing, no clear relationship between highest performing schools and the percent of teachers who attended at least one APSI training were observed for African American / Black female students or African American / Black male students. In contrast, for Hispanic/Latino female students and Hispanic/Latino male students, highest performing schools tended to cluster above 20% teachers attending at least one APSI training.

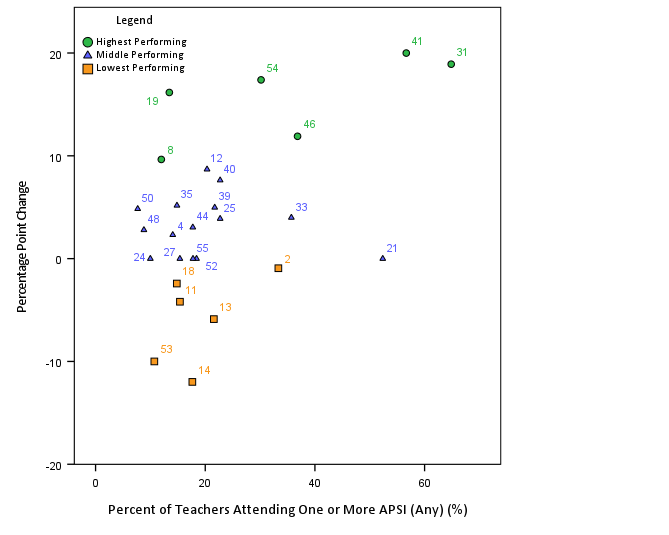
For African American / Black male students, lowest performing schools—in relation to AP course taking and passing—tended to cluster below 40% teachers attending at least one APSI training (Figure 6). Findings for African American / Black female students were similar, except that the ceiling was lower at around 20–30% attendance. For Hispanic/Latino male students, lowest performing schools—in relation to AP course taking and passing—tended to cluster below 40% teachers attending at least one APSI training. In contrast, this relationship was only observed for Hispanic/Latino female students concerning any (ELA, math, or science) AP course taking and passing (Figure 7).

For AP exam taking and passing, highest performing schools for all four student groups tended to cluster above 20% teachers attending at least one APSI training. For African American / Black male students, lowest performing schools—in relation to AP exam taking and passing-- tended to cluster below 40% teachers attending at least one APSI training. Similar relationships were observed for the other three student groups, except with a slightly lower ceiling (20–30% attendance, depending on the student group).

Overall, although the relationship between school performance and the percent of teachers who attended at least one APSI training could be considered broadly similar across the four student groups, some discrepancies were apparent. When discussing gender, female student groups tended to have lower ceilings than male student groups. In addition, relationships were more difficult to observe for Hispanic/Latino female students than for Hispanic/Latino male students.

#### Figure 6

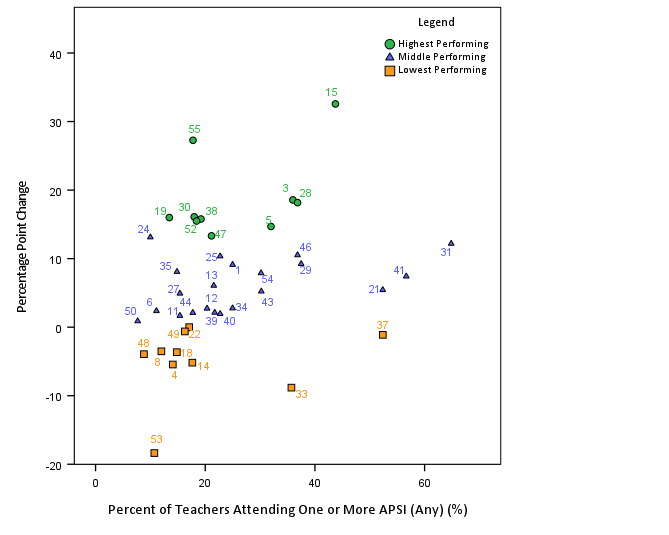
*Change in Percent of Any (ELA, Math, or Science) AP Course Takers―Three Years After Intervention―African American / Black Male, by Percent of Teachers Attending One or More APSI*



*This figure illustrates a “ceiling” of lowest performing schools at approximately 40% teachers attending one or more APSI*

Figure 7

*Change in Percent of Any (ELA, Math, or Science) Course Takers―Three Years After Intervention―Hispanic/Latino Female, by Percent of Teachers Attending One or More APSI*



*This figure illustrates a “floor” of highest performing school at approximately 20% teachers attending one or more APSI*

***Percent Teachers Who Attended At Least One APSI Training and Were Retained***

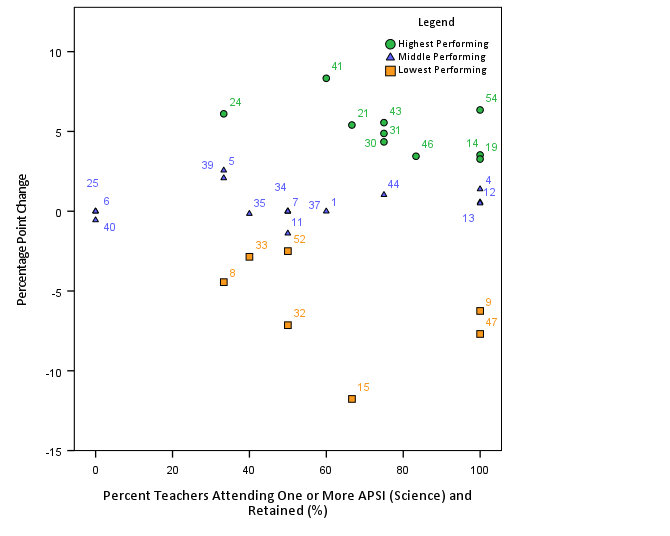
In relation to AP course taking and passing, for African American / Black male students, highest performing schools tended to cluster above 60% teacher retainment. In contrast, a relationship between highest performing schools and teacher retainment was observed for African American / Black female students concerning only AP course passing. For Hispanic/Latino male students and Hispanic/Latino female students, highest performing schools were again clustered at above 60% teacher retainment, and this relationship was particularly noticeable for AP science course taking and passing (Figure 8).

In relation to AP exam taking and passing, for African American / Black male students, highest performing schools tended to cluster above 60% teacher retainment. For African American / Black female students, this relationship was observed for only three outcomes: any (ELA, math, or science) AP exam passing, AP science exam passing, and AP science exam taking. For Hispanic/Latino female students and Hispanic/Latino male students, highest performing schools tended to cluster above 40% teacher retainment concerning taking or passing any (ELA, math, or science) AP exam. For AP science exams, highest performing schools for Hispanic/Latino female students and Hispanic/Latino male students clustered at around 60% teacher retainment.

Overall, relationships between African American / Black female students and teacher retainment were harder to observe compared to African American / Black male students. On the other hand, relationships between Hispanic/Latino students (females and males) and teacher retainment were broadly similar and were especially noticeable concerning AP science courses and exams.

#### Figure 8

*Change in Percent of AP Science Course Passers―Three Years After Intervention―Hispanic/Latino Male, by Percent of Teachers Attending One or More APSI and Retained*



*This figure illustrates clustering of highest performing above 60% teachers attending one or more APSI and retained*

***Percent AP Teachers Who Are Teachers of Color***

In relation to AP course taking and passing, highest performing schools for all four student groups tended to be those schools where the percent of AP teachers who are teachers of color was generally between 0–20%. Concerning AP exam taking and passing, findings were similar. Interestingly, in some cases the lowest performing schools also tended to have low percentages of AP teachers who were teachers of color (with ceilings generally between 0–20%, depending on the outcome and student group).

Since non-urban schools and schools where many students are white are also likely to have very low percentages of AP teachers who are teachers of color,[[19]](#footnote-20) this finding is consistent with two key findings related to students’ race/ethnicity from Year 9, specifically:

1. when considering changes in AP course taking and passing rates for all students, students who are African American / Black, students who are Hispanic/Latino, and students with disabilities, the highest performing schools were nearly always those that were not urban, and
2. when considering changes in AP course taking and passing rates for students who are African American / Black, and students who are Hispanic/Latino, the highest performing schools were generally those that had lower percentages of individuals from those student groups.

***Summary***

Overall, the trends observed for the four student groups (African American / Black females, African American / Black males, Hispanic/Latino females, and Hispanic/Latino males) and six characteristics largely fit the expected findings from previous years (see the Year 9 and Year 10 reports for more information). Nonetheless, some interesting differences between the student groups were observed. In particular, differences in outcomes were observed for the following characteristics: urban-suburban-rural designation; percent takers (or passers) before intervention; and rate of teacher retention.

Highest performing schools for African American / Black male students were overwhelmingly suburban, and lowest performing schools were overwhelmingly urban. However, this relationship was not seen for African American / Black female students. Relationships between school performance concerning African American / Black female students and school characteristics were often more difficult to observe compared to African American / Black male students. Additionally, whereas one year after the intervention the upper and lower bounds of the bottom and top quartiles for Hispanic/Latino females and Hispanic/Latino males concerning AP course taking and passing were quite similar, three years after the intervention the lower and upper bounds for Hispanic/Latino female students were much higher than those of Hispanic/Latino male students. This difference was not observed between African American / Black female and African American / Black male student groups.

# Appendices—Year 11 Evaluation

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## Appendix A: Percentage point change in Any (ELA, Math, or Science) AP or AP Science course taking or passing—One year and three years after intervention

Appendix A summarizes the descriptive statistics for schools by student group and gender of interest. The first table provides a high-level summary, while the subsequent tables present the percentage point change of AP course takers and passers for one and three years after intervention for each student group of interest. Each table presents the schools ordered by percentage point change with the highest performing and lowest performing schools indicated. Please see [Highest Performing and Lowest Performing Cutoffs](#_Highest_Performing_and) for more information.

Table A.1. Percentage Point Change in Any (ELA, Math, or Science) AP and AP Science Course Taking or Passing—Summary

Table A.2. Percent Point Change in Any AP Course Taking, One Year After Intervention

Table A.3. Percent Point Change in AP Science Course Taking, One Year After Intervention

Table A.4. Percent Point Change in Any AP Course Taking, Three years After Intervention

Table A.5. Percent Point Change in AP Science Course Taking, Three Years After Intervention

Table A.6. Percent Point Change in Any AP Course Passing, One Year After Intervention

Table A.7. Percent Point Change in AP Science Course Passing, One Year After Intervention

Table A.8. Percent Point Change in Any AP Course Passing, Three years After Intervention

Table A.9. Percent Point Change in AP Science Course Passing, Three Years After Intervention

**Table A.1**

*Percentage Point Change in Any (ELA, Math, or Science) AP or AP Science Course Taking or Passing—Summary*

|  | **Descriptive Statistics (Restricted Group Size)** | | | | | | | | | | | | | | **Cutoff** | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **N** | **Minimum** | **Maximum** | **Mean** | **Median** | **Std. Deviation** | **Skewness** | | **Kurtosis** | | **Quartiles** | | | **Max of lowest** | | **Min of highest** |
| **Statistic** | **Std. Error** | **Statistic** | **Std. Error** | **25** | **50** | **75** |
|  | **AP course takers, One year after intervention** | | | | | | | | | | | | | |  | |
| ***Any AP course takers*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
| African American / Black Male | 30.00 | -13.00 | 18.75 | 2.94 | 1.70 | 6.65 | 0.44 | 0.43 | 1.13 | 0.83 | 0.00 | 1.70 | 5.60 | 0.00 | | 5.60 |
| African American / Black Female | 25.00 | -18.18 | 15.79 | 1.97 | 2.05 | 6.95 | -0.72 | 0.46 | 2.33 | 0.90 | -1.44 | 2.05 | 5.25 | -1.44 | | 5.25 |
| Hispanic/Latino Male | 40.00 | -15.24 | 21.72 | 2.09 | 2.06 | 6.95 | -0.11 | 0.37 | 2.18 | 0.73 | -0.71 | 2.06 | 5.97 | -0.71 | | 5.97 |
| Hispanic/Latino Female | 42.00 | -9.96 | 35.29 | 3.68 | 1.79 | 8.96 | 1.27 | 0.37 | 2.59 | 0.72 | -2.02 | 1.79 | 7.84 | -2.02 | | 7.84 |
| ***AP Science course takers*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
| African American / Black Male | 30.00 | -7.70 | 12.50 | 1.93 | 0.16 | 4.11 | 0.56 | 0.43 | 1.08 | 0.83 | 0.00 | 0.16 | 4.80 | 0.00 | | 4.80 |
| African American / Black Female | 25.00 | -18.18 | 7.69 | -1.25 | 0.00 | 4.90 | -1.72 | 0.46 | 5.28 | 0.90 | -3.25 | 0.00 | 2.06 | -3.25 | | 2.06 |
| Hispanic/Latino Male | 40.00 | -14.29 | 15.84 | 0.37 | 0.00 | 5.28 | -0.44 | 0.37 | 3.05 | 0.73 | -1.02 | 0.00 | 2.91 | -1.02 | | 2.91 |
| Hispanic/Latino Female | 42.00 | -8.70 | 20.00 | 1.86 | 0.68 | 5.45 | 0.94 | 0.37 | 2.14 | 0.72 | -1.14 | 0.68 | 4.14 | -1.14 | | 4.14 |
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|  | **AP course takers, Three years after intervention** | | | | | | | | | | | | | |  | |
| ***Any AP course takers*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
| African American / Black Male | 27.00 | -11.99 | 20.00 | 3.93 | 3.05 | 8.10 | 0.29 | 0.45 | -0.03 | 0.87 | 0.00 | 3.05 | 8.70 | 0.00 | | 8.70 |
| African American / Black Female | 24.00 | -16.67 | 35.71 | 7.10 | 6.07 | 9.46 | 0.65 | 0.47 | 3.94 | 0.92 | 1.93 | 6.07 | 10.58 | 1.93 | | 10.58 |
| Hispanic/Latino Male | 41.00 | -23.81 | 21.25 | 1.59 | 1.97 | 7.99 | -0.30 | 0.37 | 2.17 | 0.72 | -3.39 | 1.97 | 5.88 | -3.39 | | 5.88 |
| Hispanic/Latino Female | 41.00 | -18.37 | 32.58 | 6.43 | 5.44 | 9.68 | 0.24 | 0.37 | 0.91 | 0.72 | 0.45 | 5.44 | 13.23 | 0.45 | | 13.23 |
| ***AP Science course takers*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
| African American / Black Male | 27.00 | -6.91 | 15.00 | 1.87 | 0.85 | 4.78 | 0.88 | 0.45 | 1.31 | 0.87 | 0.00 | 0.85 | 4.24 | 0.00 | | 4.24 |
| African American / Black Female | 24.00 | -8.77 | 14.29 | 1.68 | 0.64 | 4.75 | 0.80 | 0.47 | 1.92 | 0.92 | -0.98 | 0.64 | 3.63 | -0.98 | | 3.63 |
| Hispanic/Latino Male | 41.00 | -14.29 | 8.75 | -0.12 | 0.00 | 5.26 | -0.90 | 0.37 | 1.04 | 0.72 | -2.48 | 0.00 | 3.13 | -2.48 | | 3.13 |
| Hispanic/Latino Female | 41.00 | -8.16 | 20.00 | 2.66 | 1.82 | 6.23 | 1.13 | 0.37 | 1.44 | 0.72 | -0.78 | 1.82 | 5.26 | -0.78 | | 5.26 |
| \* Cutoff was adjusted in cases where cutoff value was attributed to multiple schools. | | | |  |  |  |  |  |  |  |  |  |  |  | |  |

|  | **Descriptive Statistics (Restricted Group Size)** | | | | | | | | | | | | | | | | | | | | | | | | | | | **Cutoff** | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **N** | **Minimum** | | **Maximum** | | **Mean** | | **Median** | | **Std. Deviation** | | | **Skewness** | | | | **Kurtosis** | | | | **Quartiles** | | | | | **Max of lowest** | | | | **Min of highest** | | |
| **Statistic** | | **Std. Error** | | **Statistic** | | **Std. Error** | | **25** | | **50** | | **75** |
|  | **AP course passers, One year after intervention** | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | |
| ***Any AP course passers*** |  |  | |  | |  | |  | |  | | |  | |  | |  | |  | |  | |  | |  |  | | | |  | | |
| African American / Black Male | 30.00 | -4.79 | | 16.67 | | 2.70 | | 0.08 | | 5.23 | | | 1.01 | | 0.43 | | 0.46 | | 0.83 | | -0.09 | | 0.08 | | 5.60 | -0.09 | | | | 5.60 | | |
| African American / Black Female | 25.00 | -11.02 | | 15.79 | | 1.80 | | 2.13 | | 6.34 | | | 0.01 | | 0.46 | | 0.28 | | 0.90 | | -1.32 | | 2.13 | | 5.57 | -1.32 | | | | 5.57 | | |
| Hispanic/Latino Male | 40.00 | -14.29 | | 21.72 | | 1.44 | | 1.13 | | 6.60 | | | 0.63 | | 0.37 | | 1.95 | | 0.73 | | -2.39 | | 1.13 | | 4.84 | -2.39 | | | | 4.84 | | |
| Hispanic/Latino Female | 42.00 | -15.15 | | 29.41 | | 2.70 | | 1.32 | | 8.82 | | | 0.87 | | 0.37 | | 1.26 | | 0.72 | | -3.04 | | 1.32 | | 6.42 | -3.04 | | | | 6.42 | | |
| ***AP Science course passers*** |  |  | |  | |  | |  | |  | | |  | |  | |  | |  | |  | |  | |  |  | | | |  | | |
| African American / Black Male | 30.00 | -5.31 | | 12.50 | | 1.84 | | 0.00 | | 4.39 | | | 0.94 | | 0.43 | | 0.15 | | 0.83 | | -1.27 | | 0.00 | | 5.42 | 0.00 | | | | 5.42 | | |
| African American / Black Female | 25.00 | -9.09 | | 7.69 | | -0.80 | | 0.00 | | 3.99 | | | -0.67 | | 0.46 | | 0.57 | | 0.90 | | -1.43 | | 0.00 | | 1.87 | 0.00 | | | | 1.87 | | |
| Hispanic/Latino Male | 40.00 | -11.76 | | 9.95 | | 0.13 | | 0.00 | | 4.25 | | | -0.22 | | 0.37 | | 1.16 | | 0.73 | | -1.42 | | 0.00 | | 2.50 | 0.00 | | | | 2.50 | | |
| Hispanic/Latino Female | 42.00 | -9.09 | | 20.00 | | 1.20 | | 0.02 | | 5.47 | | | 0.85 | | 0.37 | | 2.65 | | 0.72 | | -0.32 | | 0.02 | | 3.57 | 0.02 | | | | 3.57 | | |
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|  | | | **AP course passers, Three years after intervention** | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | |
| ***Any AP course passers*** | | |  | |  | |  | |  | |  |  | |  | |  | |  | |  | |  | |  | | |  | |  | | |  |
| African American / Black Male | | | 27.00 | | -9.17 | | 19.80 | | 4.01 | | 1.72 | 7.19 | | 0.62 | | 0.45 | | 0.00 | | 0.87 | | 0.00 | | 1.72 | | | 8.70 | | 0.00 | | | 8.70 |
| African American / Black Female | | | 24.00 | | -14.91 | | 35.71 | | 6.40 | | 4.44 | 10.33 | | 1.29 | | 0.47 | | 3.26 | | 0.92 | | 1.01 | | 4.44 | | | 9.23 | | 1.01 | | | 9.23 |
| Hispanic/Latino Male | | | 41.00 | | -16.67 | | 16.67 | | 1.27 | | 2.03 | 6.97 | | -0.09 | | 0.37 | | 0.29 | | 0.72 | | -3.80 | | 2.03 | | | 5.49 | | -3.80 | | | 5.49 |
| Hispanic/Latino Female | | | 41.00 | | -15.31 | | 32.58 | | 5.82 | | 5.23 | 9.17 | | 0.57 | | 0.37 | | 1.35 | | 0.72 | | 0.19 | | 5.23 | | | 11.27 | | 0.19 | | | 11.27 |
| ***AP Science course passers*** | | |  | |  | |  | |  | |  |  | |  | |  | |  | |  | |  | |  | | |  | |  | | |  |
| African American / Black Male | | | 27.00 | | -5.31 | | 11.70 | | 1.89 | | 0.00 | 4.76 | | 0.61 | | 0.45 | | -0.36 | | 0.87 | | -0.61 | | 0.00 | | | 4.35 | | -0.61 | | | 4.35 |
| African American / Black Female | | | 24.00 | | -8.12 | | 14.29 | | 1.64 | | 1.07 | 5.26 | | 0.38 | | 0.47 | | 0.83 | | 0.92 | | -0.64 | | 1.07 | | | 3.93 | | -0.64 | | | 3.93 |
| Hispanic/Latino Male | | | 41.00 | | -15.38 | | 8.33 | | -0.15 | | 0.00 | 4.78 | | -1.08 | | 0.37 | | 1.92 | | 0.72 | | -2.07 | | 0.00 | | | 2.92 | | -2.07 | | | 2.92 |
| Hispanic/Latino Female | | | 41.00 | | -6.77 | | 20.00 | | 2.02 | | 0.72 | 5.65 | | 1.27 | | 0.37 | | 2.54 | | 0.72 | | 0.00 | | 0.72 | | | 4.22 | | 0.00 | | | 4.22 |

**Table A.2**

*Percent Point Change in Any (ELA, Math, or Science) AP Course Taking, One Year After Intervention*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  | | --- | --- | | **African American / Black Male** | | | ***School Name*** | ***Percentage point change*** | | Chicopee Comprehensive High School | 18.75 | | Ludlow High School | 16.67 | | Saugus High School | 15.00 | | Melrose High School | 11.11 | | Avon Middle-High School | 9.35 | | Taconic High School | 8.82 | | Chicopee High School | 6.62 | | Westfield High School | 5.26 | | New Bedford High School | 4.63 | | Roger L. Putnam Vocational Technical Academy | 3.97 | | Somerville High School | 3.28 | | Nantucket High School | 2.94 | | Wareham High School | 2.86 | | Jeremiah E. Burke High School | 2.75 | | Fitchburg High School | 1.95 | | Excel High School | 1.45 | | Boston Green Academy | 1.38 | | TechBoston Academy | 0.77 | | Ayer Shirley Regional High School | 0.00 | | Bartlett Junior Senior High School | 0.00 | | Holyoke High School | 0.00 | | Joseph Case High School | 0.00 | | Joseph P. Keefe Regional Technical School | 0.00 | | Whitman-Hanson Regional High School | 0.00 | | Barnstable High School | -0.48 | | West Roxbury Academy | -2.50 | | Pittsfield High School | -2.62 | | Urban Science Academy | -3.61 | | Charlestown High School | -7.16 | | Claremont Academy | -13.00 | | Auburn High School | . | | Bay Path Regional Vocational Technical High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | David Prouty High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Gardner High School | . | | Grafton High School | . | | Granby Junior-Senior High School | . | | Lee Middle and High School | . | | Leicester High School | . | | Millbury Memorial Junior/Senior High School | . | | Nashoba Valley Technical High School | . | | North Brookfield High School | . | | Oxford High School | . | | Pathfinder Regional Vocational Technical High School | . | | Seekonk High School | . | | Shepherd Hill Regional High School | . | | Sutton Memorial High School | . | | Tantasqua High School | . | | Tri-County Regional Vocational Technical High School | . | | Wahconah Regional High School | . | |

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| |  |  | | --- | --- | | **African American / Black Female** | | | ***School Name*** | ***Percentage point change*** | | Chicopee Comprehensive High School | 15.79 | | Avon Middle-High School | 13.20 | | Melrose High School | 10.48 | | Excel High School | 8.04 | | Chicopee High School | 7.69 | | Joseph P. Keefe Regional Technical School | 5.26 | | Roger L. Putnam Vocational Technical Academy | 5.24 | | Nantucket High School | 4.76 | | Somerville High School | 4.16 | | Taconic High School | 2.98 | | Barnstable High School | 2.94 | | Boston Green Academy | 2.25 | | Pittsfield High School | 2.05 | | Jeremiah E. Burke High School | 1.80 | | Bartlett Junior Senior High School | 1.67 | | TechBoston Academy | 1.42 | | Ayer Shirley Regional High School | 0.00 | | New Bedford High School | -0.41 | | Charlestown High School | -0.79 | | Wareham High School | -2.08 | | West Roxbury Academy | -2.12 | | Fitchburg High School | -2.84 | | Holyoke High School | -3.70 | | Urban Science Academy | -10.40 | | Whitman-Hanson Regional High School | -18.18 | | Auburn High School | . | | Bay Path Regional Vocational Technical High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | Claremont Academy | . | | David Prouty High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Gardner High School | . | | Grafton High School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | Ludlow High School | . | | Millbury Memorial Junior/Senior High School | . | | Nashoba Valley Technical High School | . | | North Brookfield High School | . | | Oxford High School | . | | Pathfinder Regional Vocational Technical High School | . | | Saugus High School | . | | Seekonk High School | . | | Shepherd Hill Regional High School | . | | Sutton Memorial High School | . | | Tantasqua High School | . | | Tri-County Regional Vocational Technical High School | . | | Wahconah Regional High School | . | | Westfield High School | . | |



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| |  |  | | --- | --- | | **Hispanic/Latino Male** | | | ***School Name*** | ***Percentage point change*** | | Tantasqua High School | 21.72 | | Nashoba Valley Technical High School | 16.00 | | David Prouty High School | 13.24 | | Gardner High School | 8.82 | | Auburn High School | 7.14 | | Bartlett Junior Senior High School | 6.90 | | Westfield High School | 6.41 | | Pathfinder Regional Vocational Technical High School | 6.25 | | Taconic High School | 6.18 | | Grafton High School | 6.04 | | Jeremiah E. Burke High School | 5.73 | | Excel High School | 5.73 | | Chicopee High School | 3.97 | | Roger L. Putnam Vocational Technical Academy | 3.48 | | Holyoke High School | 3.46 | | Fitchburg High School | 3.15 | | Urban Science Academy | 3.13 | | Saugus High School | 3.03 | | Barnstable High School | 3.00 | | Chicopee Comprehensive High School | 2.42 | | TechBoston Academy | 1.69 | | Pittsfield High School | 1.61 | | West Roxbury Academy | 1.36 | | Joseph P. Keefe Regional Technical School | 1.20 | | Nantucket High School | 1.06 | | Ludlow High School | 0.00 | | Shepherd Hill Regional High School | 0.00 | | Tri-County Regional Vocational Technical High School | 0.00 | | Claremont Academy | -0.40 | | Ayer Shirley Regional High School | -0.48 | | Somerville High School | -0.50 | | Wareham High School | -0.78 | | New Bedford High School | -0.96 | | Boston Green Academy | -1.05 | | Charlestown High School | -2.14 | | Bay Path Regional Vocational Technical High School | -2.61 | | Oxford High School | -7.69 | | Bourne High School | -12.50 | | Melrose High School | -14.29 | | Millbury Memorial Junior/Senior High School | -15.24 | | Avon Middle-High School | . | | Blackstone-Millville Regional High School | . | | Carver High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | | Whitman-Hanson Regional High School | . | |



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| |  |  | | --- | --- | | **Hispanic/Latino Female** | | | ***School Name*** | ***Percentage point change*** | | David Prouty High School | 35.29 | | Tantasqua High School | 20.00 | | Leicester High School | 19.05 | | Drury High School | 18.18 | | Whitman-Hanson Regional High School | 16.67 | | Taconic High School | 13.64 | | Westfield High School | 11.25 | | Fitchburg High School | 8.97 | | Oxford High School | 8.40 | | Saugus High School | 8.28 | | Tri-County Regional Vocational Technical High School | 7.69 | | Urban Science Academy | 6.93 | | Lee Middle and High School | 6.67 | | Joseph P. Keefe Regional Technical School | 6.02 | | Roger L. Putnam Vocational Technical Academy | 6.00 | | Pathfinder Regional Vocational Technical High School | 5.26 | | Wareham High School | 3.97 | | Shepherd Hill Regional High School | 3.64 | | Holyoke High School | 3.48 | | Ludlow High School | 2.94 | | Chicopee High School | 2.03 | | Charlestown High School | 1.54 | | Somerville High School | 1.37 | | Barnstable High School | 0.75 | | Chicopee Comprehensive High School | 0.57 | | Excel High School | 0.56 | | Bartlett Junior Senior High School | -0.30 | | Pittsfield High School | -0.71 | | New Bedford High School | -1.11 | | Bay Path Regional Vocational Technical High School | -1.19 | | Jeremiah E. Burke High School | -1.99 | | Boston Green Academy | -1.99 | | TechBoston Academy | -2.10 | | Gardner High School | -2.34 | | West Roxbury Academy | -2.89 | | Melrose High School | -4.64 | | Nashoba Valley Technical High School | -5.56 | | Claremont Academy | -6.57 | | Auburn High School | -6.67 | | Grafton High School | -7.69 | | Ayer Shirley Regional High School | -8.70 | | Nantucket High School | -9.96 | | Avon Middle-High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Millbury Memorial Junior/Senior High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | |

**Table A.3**

*Percent Point Change in AP Science Course Taking, One Year After Intervention*

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| **African American / Black Male** | |
| ***School Name*** | ***Percentage point change*** |
| Chicopee Comprehensive High School | 12.50 |
| Saugus High School | 10.00 |
| Ludlow High School | 8.33 |
| Avon Middle-High School | 6.57 |
| Chicopee High School | 6.25 |
| Taconic High School | 5.88 |
| Westfield High School | 5.26 |
| Claremont Academy | 4.64 |
| New Bedford High School | 3.08 |
| Nantucket High School | 2.94 |
| Wareham High School | 2.86 |
| Pittsfield High School | 1.92 |
| Roger L. Putnam Vocational Technical Academy | 1.64 |
| Excel High School | 0.36 |
| Boston Green Academy | 0.18 |
| TechBoston Academy | 0.13 |
| Ayer Shirley Regional High School | 0.00 |
| Bartlett Junior Senior High School | 0.00 |
| Holyoke High School | 0.00 |
| Joseph Case High School | 0.00 |
| Joseph P. Keefe Regional Technical School | 0.00 |
| Melrose High School | 0.00 |
| West Roxbury Academy | 0.00 |
| Whitman-Hanson Regional High School | 0.00 |
| Somerville High School | -0.11 |
| Barnstable High School | -0.48 |
| Urban Science Academy | -1.23 |
| Jeremiah E. Burke High School | -1.45 |
| Fitchburg High School | -3.60 |
| Charlestown High School | -7.70 |
| Auburn High School | . |
| Bay Path Regional Vocational Technical High School | . |
| Blackstone-Millville Regional High School | . |
| Bourne High School | . |
| Carver High School | . |
| David Prouty High School | . |
| Drury High School | . |
| East Bridgewater High School | . |
| Franklin County Technical School | . |
| Gardner High School | . |
| Grafton High School | . |
| Granby Junior-Senior High School | . |
| Lee Middle and High School | . |
| Leicester High School | . |
| Millbury Memorial Junior/Senior High School | . |
| Nashoba Valley Technical High School | . |
| North Brookfield High School | . |
| Oxford High School | . |
| Pathfinder Regional Vocational Technical High School | . |
| Seekonk High School | . |
| Shepherd Hill Regional High School | . |
| Sutton Memorial High School | . |
| Tantasqua High School | . |
| Tri-County Regional Vocational Technical High School | . |
| Wahconah Regional High School | . |



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| |  |  | | --- | --- | | **African American / Black Female** | | | ***School Name*** | ***Percentage point change*** | | Chicopee High School | 7.69 | | Jeremiah E. Burke High School | 2.66 | | Taconic High School | 2.62 | | Somerville High School | 2.62 | | Nantucket High School | 2.38 | | Melrose High School | 2.22 | | Roger L. Putnam Vocational Technical Academy | 1.90 | | Wareham High School | 0.35 | | TechBoston Academy | 0.14 | | Ayer Shirley Regional High School | 0.00 | | Barnstable High School | 0.00 | | Chicopee Comprehensive High School | 0.00 | | Holyoke High School | 0.00 | | Joseph P. Keefe Regional Technical School | 0.00 | | Excel High School | -0.38 | | Avon Middle-High School | -0.91 | | New Bedford High School | -1.11 | | Pittsfield High School | -1.72 | | Charlestown High School | -2.98 | | Urban Science Academy | -3.52 | | Fitchburg High School | -4.61 | | West Roxbury Academy | -5.14 | | Boston Green Academy | -6.84 | | Bartlett Junior Senior High School | -8.33 | | Whitman-Hanson Regional High School | -18.18 | | Auburn High School | . | | Bay Path Regional Vocational Technical High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | Claremont Academy | . | | David Prouty High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Gardner High School | . | | Grafton High School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | Ludlow High School | . | | Millbury Memorial Junior/Senior High School | . | | Nashoba Valley Technical High School | . | | North Brookfield High School | . | | Oxford High School | . | | Pathfinder Regional Vocational Technical High School | . | | Saugus High School | . | | Seekonk High School | . | | Shepherd Hill Regional High School | . | | Sutton Memorial High School | . | | Tantasqua High School | . | | Tri-County Regional Vocational Technical High School | . | | Wahconah Regional High School | . | | Westfield High School | . | |



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| |  |  | | --- | --- | | **Hispanic/Latino Male** | | | ***School Name*** | ***Percentage point change*** | | Tantasqua High School | 15.84 | | Nashoba Valley Technical High School | 8.00 | | Auburn High School | 7.14 | | Taconic High School | 6.90 | | Gardner High School | 5.88 | | Claremont Academy | 4.02 | | Barnstable High School | 3.45 | | Bartlett Junior Senior High School | 3.45 | | Chicopee High School | 3.41 | | Saugus High School | 3.03 | | Westfield High School | 2.56 | | Holyoke High School | 2.37 | | Pittsfield High School | 2.33 | | Fitchburg High School | 1.36 | | West Roxbury Academy | 1.33 | | Roger L. Putnam Vocational Technical Academy | 0.58 | | TechBoston Academy | 0.24 | | Bay Path Regional Vocational Technical High School | 0.00 | | Chicopee Comprehensive High School | 0.00 | | Joseph P. Keefe Regional Technical School | 0.00 | | Ludlow High School | 0.00 | | Melrose High School | 0.00 | | Oxford High School | 0.00 | | Pathfinder Regional Vocational Technical High School | 0.00 | | Shepherd Hill Regional High School | 0.00 | | Tri-County Regional Vocational Technical High School | 0.00 | | Somerville High School | -0.32 | | Urban Science Academy | -0.47 | | Ayer Shirley Regional High School | -0.48 | | Boston Green Academy | -0.78 | | Grafton High School | -1.10 | | New Bedford High School | -1.13 | | Excel High School | -1.14 | | Jeremiah E. Burke High School | -1.16 | | Charlestown High School | -2.35 | | Nantucket High School | -2.86 | | Wareham High School | -6.67 | | David Prouty High School | -11.76 | | Bourne High School | -12.50 | | Millbury Memorial Junior/Senior High School | -14.29 | | Avon Middle-High School | . | | Blackstone-Millville Regional High School | . | | Carver High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | | Whitman-Hanson Regional High School | . | |



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| |  |  | | --- | --- | | **Hispanic/Latino Female** | | | ***School Name*** | ***Percentage point change*** | | Tantasqua High School | 20.00 | | Urban Science Academy | 12.30 | | Whitman-Hanson Regional High School | 11.11 | | Leicester High School | 10.71 | | Drury High School | 9.09 | | Saugus High School | 7.88 | | Lee Middle and High School | 6.67 | | David Prouty High School | 5.88 | | Shepherd Hill Regional High School | 4.76 | | Taconic High School | 4.55 | | Gardner High School | 4.00 | | Tri-County Regional Vocational Technical High School | 3.85 | | Ludlow High School | 2.94 | | Holyoke High School | 2.87 | | Fitchburg High School | 2.70 | | West Roxbury Academy | 2.55 | | Westfield High School | 2.50 | | Charlestown High School | 1.80 | | Somerville High School | 1.08 | | Chicopee High School | 1.02 | | Chicopee Comprehensive High School | 0.69 | | Roger L. Putnam Vocational Technical Academy | 0.67 | | TechBoston Academy | 0.17 | | Auburn High School | 0.00 | | Bay Path Regional Vocational Technical High School | 0.00 | | Joseph P. Keefe Regional Technical School | 0.00 | | Melrose High School | 0.00 | | Nantucket High School | 0.00 | | Pathfinder Regional Vocational Technical High School | 0.00 | | Pittsfield High School | 0.00 | | Wareham High School | 0.00 | | Oxford High School | -1.12 | | Boston Green Academy | -1.20 | | New Bedford High School | -1.37 | | Excel High School | -1.80 | | Jeremiah E. Burke High School | -2.08 | | Barnstable High School | -2.38 | | Bartlett Junior Senior High School | -3.70 | | Nashoba Valley Technical High School | -5.56 | | Claremont Academy | -6.10 | | Grafton High School | -7.69 | | Ayer Shirley Regional High School | -8.70 | | Avon Middle-High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Millbury Memorial Junior/Senior High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | |



**Table A.4**

*Percent Point Change in Any (ELA, Math, or Science) AP Course Taking, Three Years After Intervention*

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| |  |  | | --- | --- | | **African American / Black Male** | | | ***School Name*** | ***Percentage point change*** | | Saugus High School | 20.00 | | Melrose High School | 18.92 | | Westfield High School | 17.39 | | Fitchburg High School | 16.17 | | Taconic High School | 11.90 | | Boston Green Academy | 9.65 | | Chicopee Comprehensive High School | 8.70 | | Roger L. Putnam Vocational Technical Academy | 7.63 | | New Bedford High School | 5.17 | | Pittsfield High School | 4.98 | | Urban Science Academy | 4.85 | | Nantucket High School | 4.00 | | Jeremiah E. Burke High School | 3.89 | | Somerville High School | 3.05 | | TechBoston Academy | 2.80 | | Barnstable High School | 2.32 | | Gardner High School | 0.00 | | Holyoke High School | 0.00 | | Joseph P. Keefe Regional Technical School | 0.00 | | Wareham High School | 0.00 | | Whitman-Hanson Regional High School | 0.00 | | Avon Middle-High School | -0.93 | | Excel High School | -2.42 | | Charlestown High School | -4.19 | | Chicopee High School | -5.88 | | West Roxbury Academy | -10.00 | | Claremont Academy | -11.99 | | Auburn High School | . | | Ayer Shirley Regional High School | . | | Bartlett Junior Senior High School | . | | Bay Path Regional Vocational Technical High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | David Prouty High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Grafton High School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | Ludlow High School | . | | Millbury Memorial Junior/Senior High School | . | | Nashoba Valley Technical High School | . | | North Brookfield High School | . | | Oxford High School | . | | Pathfinder Regional Vocational Technical High School |  | | Seekonk High School | . | | Shepherd Hill Regional High School | . | | Sutton Memorial High School | . | | Tantasqua High School | . | | Tri-County Regional Vocational Technical High School | . | | Wahconah Regional High School | . | |



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| |  |  | | --- | --- | | **African American / Black Female** | | | ***School Name*** | ***Percentage point change*** | | Ayer Shirley Regional High School | 35.71 | | Fitchburg High School | 20.29 | | Chicopee High School | 15.79 | | Holyoke High School | 15.34 | | Avon Middle-High School | 12.31 | | Jeremiah E. Burke High School | 10.90 | | Melrose High School | 9.64 | | Urban Science Academy | 9.05 | | Joseph P. Keefe Regional Technical School | 8.00 | | Nantucket High School | 7.97 | | Boston Green Academy | 7.90 | | Charlestown High School | 6.78 | | Somerville High School | 5.35 | | Excel High School | 5.29 | | New Bedford High School | 4.97 | | Taconic High School | 4.43 | | Roger L. Putnam Vocational Technical Academy | 4.33 | | Barnstable High School | 2.08 | | TechBoston Academy | 1.88 | | Wareham High School | 1.67 | | Chicopee Comprehensive High School | 0.00 | | Westfield High School | 0.00 | | Pittsfield High School | -2.70 | | West Roxbury Academy | -16.67 | | Auburn High School | . | | Bartlett Junior Senior High School | . | | Bay Path Regional Vocational Technical High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | Claremont Academy | . | | David Prouty High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Gardner High School | . | | Grafton High School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | Ludlow High School | . | | Millbury Memorial Junior/Senior High School | . | | Nashoba Valley Technical High School | . | | North Brookfield High School | . | | Oxford High School | . | | Pathfinder Regional Vocational Technical High School | . | | Saugus High School | . | | Seekonk High School | . | | Shepherd Hill Regional High School | . | | Sutton Memorial High School | . | | Tantasqua High School | . | | Tri-County Regional Vocational Technical High School | . | | Wahconah Regional High School | . | | Whitman-Hanson Regional High School | . | |



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| |  |  | | --- | --- | | **Hispanic/Latino Male** | | | ***School Name*** | ***Percentage point change*** | | Ayer Shirley Regional High School | 21.25 | | Saugus High School | 18.75 | | Shepherd Hill Regional High School | 13.89 | | Bartlett Junior Senior High School | 10.26 | | Taconic High School | 9.63 | | Nashoba Valley Technical High School | 8.70 | | Holyoke High School | 7.36 | | Ludlow High School | 7.32 | | Jeremiah E. Burke High School | 6.94 | | Westfield High School | 6.35 | | Excel High School | 5.42 | | Gardner High School | 5.41 | | Auburn High School | 5.26 | | Roger L. Putnam Vocational Technical Academy | 4.55 | | Joseph P. Keefe Regional Technical School | 3.91 | | Tri-County Regional Vocational Technical High School | 3.70 | | Fitchburg High School | 3.60 | | New Bedford High School | 3.53 | | Nantucket High School | 2.34 | | Chicopee Comprehensive High School | 2.03 | | Somerville High School | 1.97 | | Urban Science Academy | 1.92 | | TechBoston Academy | 1.11 | | Barnstable High School | 0.60 | | Chicopee High School | 0.57 | | Blackstone-Millville Regional High School | 0.00 | | Pathfinder Regional Vocational Technical High School | 0.00 | | Wareham High School | -2.50 | | Grafton High School | -2.88 | | Bay Path Regional Vocational Technical High School | -3.03 | | Claremont Academy | -3.29 | | Charlestown High School | -3.49 | | Pittsfield High School | -3.53 | | David Prouty High School | -4.07 | | Boston Green Academy | -4.44 | | Melrose High School | -5.59 | | West Roxbury Academy | -6.56 | | Oxford High School | -7.69 | | Tantasqua High School | -7.69 | | Bourne High School | -12.50 | | Millbury Memorial Junior/Senior High School | -23.81 | | Avon Middle-High School | . | | Carver High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | | Whitman-Hanson Regional High School | . | |



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| |  |  | | --- | --- | | **Hispanic/Latino Female** | | | ***School Name*** | ***Percentage point change*** | | David Prouty High School | 32.58 | | Whitman-Hanson Regional High School | 27.27 | | Ayer Shirley Regional High School | 18.58 | | Lee Middle and High School | 18.18 | | Ludlow High School | 16.11 | | Fitchburg High School | 16.00 | | Pathfinder Regional Vocational Technical High School | 15.79 | | Wareham High School | 15.50 | | Bartlett Junior Senior High School | 14.70 | | Tantasqua High School | 13.33 | | Holyoke High School | 13.14 | | Melrose High School | 12.20 | | Taconic High School | 10.53 | | Jeremiah E. Burke High School | 10.36 | | Leicester High School | 9.24 | | Auburn High School | 9.12 | | New Bedford High School | 8.09 | | Westfield High School | 7.89 | | Saugus High School | 7.43 | | Chicopee High School | 6.07 | | Gardner High School | 5.44 | | Shepherd Hill Regional High School | 5.23 | | Joseph P. Keefe Regional Technical School | 4.93 | | Nashoba Valley Technical High School | 2.78 | | Chicopee Comprehensive High School | 2.74 | | Bay Path Regional Vocational Technical High School | 2.38 | | Pittsfield High School | 2.13 | | Somerville High School | 2.12 | | Roger L. Putnam Vocational Technical Academy | 1.96 | | Charlestown High School | 1.68 | | Urban Science Academy | 0.89 | | Grafton High School | 0.00 | | Tri-County Regional Vocational Technical High School | -0.62 | | Oxford High School | -1.12 | | Boston Green Academy | -3.52 | | Excel High School | -3.65 | | TechBoston Academy | -3.94 | | Claremont Academy | -5.18 | | Barnstable High School | -5.45 | | Nantucket High School | -8.82 | | West Roxbury Academy | -18.37 | | Avon Middle-High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Millbury Memorial Junior/Senior High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | |

**Table A.5**

*Percent Point Change in AP Science Course Taking, Three Years After Intervention*

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| |  |  | | --- | --- | | **African American / Black Male** | | | ***School Name*** | ***Percentage point change*** | | Saugus High School | 15.00 | | Melrose High School | 10.81 | | Westfield High School | 8.70 | | Fitchburg High School | 8.06 | | Pittsfield High School | 7.14 | | Chicopee Comprehensive High School | 4.35 | | New Bedford High School | 4.24 | | Boston Green Academy | 2.59 | | Taconic High School | 2.38 | | Claremont Academy | 1.81 | | Somerville High School | 1.59 | | TechBoston Academy | 1.37 | | Urban Science Academy | 1.29 | | Roger L. Putnam Vocational Technical Academy | 0.85 | | Chicopee High School | 0.00 | | Gardner High School | 0.00 | | Holyoke High School | 0.00 | | Joseph P. Keefe Regional Technical School | 0.00 | | Nantucket High School | 0.00 | | Wareham High School | 0.00 | | Whitman-Hanson Regional High School | 0.00 | | Excel High School | -0.61 | | Barnstable High School | -1.13 | | Jeremiah E. Burke High School | -1.71 | | West Roxbury Academy | -4.17 | | Avon Middle-High School | -5.19 | | Charlestown High School | -6.91 | | Auburn High School | . | | Ayer Shirley Regional High School | . | | Bartlett Junior Senior High School | . | | Bay Path Regional Vocational Technical High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | David Prouty High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Grafton High School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | Ludlow High School | . | | Millbury Memorial Junior/Senior High School | . | | Nashoba Valley Technical High School | . | | North Brookfield High School | . | | Oxford High School | . | | Pathfinder Regional Vocational Technical High School | . | | Seekonk High School | . | | Shepherd Hill Regional High School | . | | Sutton Memorial High School | . | | Tantasqua High School | . | | Tri-County Regional Vocational Technical High School | . | | Wahconah Regional High School | . | |



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| |  |  | | --- | --- | | **African American / Black Female** | | | ***School Name*** | ***Percentage point change*** | | Ayer Shirley Regional High School | 14.29 | | Chicopee High School | 10.53 | | Holyoke High School | 9.52 | | Urban Science Academy | 4.87 | | Taconic High School | 4.60 | | Joseph P. Keefe Regional Technical School | 4.00 | | Melrose High School | 2.50 | | Jeremiah E. Burke High School | 2.40 | | Excel High School | 1.95 | | Avon Middle-High School | 1.71 | | TechBoston Academy | 1.64 | | Somerville High School | 1.04 | | Charlestown High School | 0.24 | | Barnstable High School | 0.00 | | Chicopee Comprehensive High School | 0.00 | | Roger L. Putnam Vocational Technical Academy | 0.00 | | Westfield High School | 0.00 | | Nantucket High School | -0.89 | | Fitchburg High School | -1.00 | | New Bedford High School | -1.35 | | Pittsfield High School | -1.44 | | Wareham High School | -2.78 | | Boston Green Academy | -2.81 | | West Roxbury Academy | -8.77 | | Auburn High School | . | | Bartlett Junior Senior High School | . | | Bay Path Regional Vocational Technical High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | Claremont Academy | . | | David Prouty High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Gardner High School | . | | Grafton High School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | Ludlow High School | . | | Millbury Memorial Junior/Senior High School | . | | Nashoba Valley Technical High School | . | | North Brookfield High School | . | | Oxford High School | . | | Pathfinder Regional Vocational Technical High School | . | | Saugus High School | . | | Seekonk High School | . | | Shepherd Hill Regional High School | . | | Sutton Memorial High School | . | | Tantasqua High School | . | | Tri-County Regional Vocational Technical High School | . | | Wahconah Regional High School | . | | Whitman-Hanson Regional High School | . | |



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| |  |  | | --- | --- | | **Hispanic/Latino Male** | | | ***School Name*** | ***Percentage point change*** | | Ayer Shirley Regional High School | 8.75 | | Saugus High School | 8.33 | | Holyoke High School | 7.37 | | Westfield High School | 6.35 | | Shepherd Hill Regional High School | 5.56 | | Gardner High School | 5.41 | | Ludlow High School | 4.88 | | Melrose High School | 4.35 | | Claremont Academy | 3.53 | | Taconic High School | 3.45 | | Fitchburg High School | 2.81 | | Bartlett Junior Senior High School | 2.56 | | Joseph P. Keefe Regional Technical School | 2.23 | | Pittsfield High School | 2.08 | | Barnstable High School | 1.39 | | Somerville High School | 0.97 | | New Bedford High School | 0.85 | | Chicopee High School | 0.57 | | Chicopee Comprehensive High School | 0.51 | | Auburn High School | 0.00 | | Bay Path Regional Vocational Technical High School | 0.00 | | Blackstone-Millville Regional High School | 0.00 | | Jeremiah E. Burke High School | 0.00 | | Nashoba Valley Technical High School | 0.00 | | Oxford High School | 0.00 | | Pathfinder Regional Vocational Technical High School | 0.00 | | Tri-County Regional Vocational Technical High School | 0.00 | | Excel High School | -0.04 | | Roger L. Putnam Vocational Technical Academy | -0.32 | | West Roxbury Academy | -1.64 | | Urban Science Academy | -2.45 | | Wareham High School | -2.50 | | Nantucket High School | -2.86 | | Charlestown High School | -2.95 | | TechBoston Academy | -4.22 | | Boston Green Academy | -4.44 | | Tantasqua High School | -7.69 | | Grafton High School | -9.13 | | David Prouty High School | -11.76 | | Bourne High School | -12.50 | | Millbury Memorial Junior/Senior High School | -14.29 | | Avon Middle-High School | . | | Carver High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | | Whitman-Hanson Regional High School | . | |



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| |  |  | | --- | --- | | **Hispanic/Latino Female** | | | ***School Name*** | ***Percentage point change*** | | Tantasqua High School | 20.00 | | Whitman-Hanson Regional High School | 18.18 | | David Prouty High School | 17.19 | | Melrose High School | 13.64 | | Urban Science Academy | 9.66 | | Holyoke High School | 8.61 | | Shepherd Hill Regional High School | 7.41 | | Fitchburg High School | 7.38 | | Auburn High School | 5.26 | | Gardner High School | 5.26 | | Wareham High School | 5.26 | | Westfield High School | 3.95 | | Pittsfield High School | 3.92 | | Saugus High School | 3.37 | | Joseph P. Keefe Regional Technical School | 2.82 | | Chicopee Comprehensive High School | 2.75 | | Charlestown High School | 2.51 | | Bay Path Regional Vocational Technical High School | 2.38 | | Somerville High School | 2.33 | | New Bedford High School | 1.96 | | Chicopee High School | 1.82 | | Roger L. Putnam Vocational Technical Academy | 1.13 | | Ludlow High School | 0.72 | | Ayer Shirley Regional High School | 0.40 | | Grafton High School | 0.00 | | Lee Middle and High School | 0.00 | | Nantucket High School | 0.00 | | Pathfinder Regional Vocational Technical High School | 0.00 | | Taconic High School | 0.00 | | Tri-County Regional Vocational Technical High School | 0.00 | | Jeremiah E. Burke High School | -0.48 | | Excel High School | -1.08 | | Boston Green Academy | -2.11 | | Barnstable High School | -2.38 | | Leicester High School | -2.52 | | TechBoston Academy | -3.13 | | Bartlett Junior Senior High School | -3.70 | | Claremont Academy | -3.74 | | Nashoba Valley Technical High School | -5.56 | | Oxford High School | -5.88 | | West Roxbury Academy | -8.16 | | Avon Middle-High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Millbury Memorial Junior/Senior High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | |



**Table A.6**

*Percent Point Change in Any (ELA, Math, or Science) AP Course Passing, One Year After Intervention*

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| |  |  | | --- | --- | | **African American / Black Male** | | | ***School Name*** | ***Percentage point change*** | | Ludlow High School | 16.67 | | Chicopee Comprehensive High School | 12.50 | | Melrose High School | 11.11 | | Saugus High School | 10.00 | | Avon Middle-High School | 9.35 | | Taconic High School | 8.82 | | Chicopee High School | 6.62 | | Westfield High School | 5.26 | | Claremont Academy | 4.64 | | New Bedford High School | 4.63 | | Nantucket High School | 2.94 | | Fitchburg High School | 1.89 | | Roger L. Putnam Vocational Technical Academy | 1.51 | | Excel High School | 1.27 | | Boston Green Academy | 0.12 | | Jeremiah E. Burke High School | 0.03 | | Ayer Shirley Regional High School | 0.00 | | Bartlett Junior Senior High School | 0.00 | | Holyoke High School | 0.00 | | Joseph Case High School | 0.00 | | Joseph P. Keefe Regional Technical School | 0.00 | | Wareham High School | 0.00 | | Whitman-Hanson Regional High School | 0.00 | | Pittsfield High School | -0.35 | | Barnstable High School | -0.48 | | TechBoston Academy | -1.18 | | Somerville High School | -2.47 | | West Roxbury Academy | -3.33 | | Urban Science Academy | -3.86 | | Charlestown High School | -4.79 | | Auburn High School | . | | Bay Path Regional Vocational Technical High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | David Prouty High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Gardner High School | . | | Grafton High School | . | | Granby Junior-Senior High School | . | | Lee Middle and High School | . | | Leicester High School | . | | Millbury Memorial Junior/Senior High School | . | | Nashoba Valley Technical High School | . | | North Brookfield High School | . | | Oxford High School | . | | Pathfinder Regional Vocational Technical High School | . | | Seekonk High School | . | | Shepherd Hill Regional High School | . | | Sutton Memorial High School | . | | Tantasqua High School | . | | Tri-County Regional Vocational Technical High School | . | | Wahconah Regional High School | . | |

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| |  |  | | --- | --- | | **African American / Black Female** | | | ***School Name*** | ***Percentage point change*** | | Chicopee Comprehensive High School | 15.79 | | Avon Middle-High School | 13.20 | | Melrose High School | 8.25 | | Chicopee High School | 7.69 | | Fitchburg High School | 5.99 | | Excel High School | 5.87 | | Joseph P. Keefe Regional Technical School | 5.26 | | Roger L. Putnam Vocational Technical Academy | 5.24 | | Nantucket High School | 4.76 | | Pittsfield High School | 3.80 | | Barnstable High School | 2.94 | | Charlestown High School | 2.15 | | Jeremiah E. Burke High School | 2.13 | | Bartlett Junior Senior High School | 1.67 | | Wareham High School | 0.69 | | Taconic High School | 0.48 | | Ayer Shirley Regional High School | 0.00 | | TechBoston Academy | -0.92 | | New Bedford High School | -1.02 | | Boston Green Academy | -1.63 | | Holyoke High School | -3.70 | | Somerville High School | -6.68 | | West Roxbury Academy | -6.73 | | Whitman-Hanson Regional High School | -9.09 | | Urban Science Academy | -11.02 | | Auburn High School | . | | Bay Path Regional Vocational Technical High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | Claremont Academy | . | | David Prouty High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Gardner High School | . | | Grafton High School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | Ludlow High School | . | | Millbury Memorial Junior/Senior High School | . | | Nashoba Valley Technical High School | . | | North Brookfield High School | . | | Oxford High School | . | | Pathfinder Regional Vocational Technical High School | . | | Saugus High School | . | | Seekonk High School | . | | Shepherd Hill Regional High School | . | | Sutton Memorial High School | . | | Tantasqua High School | . | | Tri-County Regional Vocational Technical High School | . | | Wahconah Regional High School | . | | Westfield High School | . | |

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| |  |  | | --- | --- | | **Hispanic/Latino Male** | | | ***School Name*** | ***Percentage point change*** | | Tantasqua High School | 21.72 | | Nashoba Valley Technical High School | 16.00 | | David Prouty High School | 13.24 | | Gardner High School | 8.82 | | Auburn High School | 7.14 | | Bartlett Junior Senior High School | 6.90 | | Pathfinder Regional Vocational Technical High School | 6.25 | | Grafton High School | 6.04 | | Excel High School | 5.73 | | Westfield High School | 5.13 | | Chicopee High School | 3.97 | | Claremont Academy | 3.28 | | Roger L. Putnam Vocational Technical Academy | 3.22 | | Saugus High School | 3.03 | | Taconic High School | 2.73 | | Fitchburg High School | 2.26 | | Holyoke High School | 2.17 | | Chicopee Comprehensive High School | 1.82 | | Barnstable High School | 1.27 | | Joseph P. Keefe Regional Technical School | 1.20 | | Nantucket High School | 1.06 | | Jeremiah E. Burke High School | 0.90 | | Ludlow High School | 0.00 | | Shepherd Hill Regional High School | 0.00 | | Tri-County Regional Vocational Technical High School | 0.00 | | Ayer Shirley Regional High School | -0.48 | | Pittsfield High School | -0.72 | | New Bedford High School | -0.96 | | Urban Science Academy | -1.42 | | Charlestown High School | -1.78 | | West Roxbury Academy | -2.60 | | Bay Path Regional Vocational Technical High School | -2.61 | | TechBoston Academy | -2.72 | | Somerville High School | -3.15 | | Bourne High School | -6.25 | | Wareham High School | -6.67 | | Boston Green Academy | -6.93 | | Oxford High School | -7.69 | | Millbury Memorial Junior/Senior High School | -8.10 | | Melrose High School | -14.29 | | Avon Middle-High School | . | | Blackstone-Millville Regional High School | . | | Carver High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | | Whitman-Hanson Regional High School | . | |

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| |  |  | | --- | --- | | **Hispanic/Latino Female** | | | ***School Name*** | ***Percentage point change*** | | David Prouty High School | 29.41 | | Tantasqua High School | 20.00 | | Leicester High School | 19.05 | | Drury High School | 18.18 | | Whitman-Hanson Regional High School | 16.67 | | Taconic High School | 13.64 | | Fitchburg High School | 8.56 | | Oxford High School | 8.40 | | Tri-County Regional Vocational Technical High School | 7.69 | | Westfield High School | 7.50 | | Saugus High School | 6.06 | | Joseph P. Keefe Regional Technical School | 6.02 | | Pathfinder Regional Vocational Technical High School | 5.26 | | Urban Science Academy | 4.39 | | Shepherd Hill Regional High School | 3.64 | | Bartlett Junior Senior High School | 3.40 | | Charlestown High School | 3.29 | | Holyoke High School | 3.01 | | Ludlow High School | 2.94 | | Roger L. Putnam Vocational Technical Academy | 2.69 | | Excel High School | 1.66 | | Chicopee High School | 0.97 | | Barnstable High School | 0.75 | | Chicopee Comprehensive High School | 0.61 | | Jeremiah E. Burke High School | 0.14 | | Lee Middle and High School | 0.00 | | New Bedford High School | -0.76 | | Wareham High School | -0.79 | | Bay Path Regional Vocational Technical High School | -1.19 | | Claremont Academy | -1.69 | | Gardner High School | -2.34 | | Somerville High School | -2.98 | | Pittsfield High School | -3.21 | | TechBoston Academy | -4.54 | | West Roxbury Academy | -4.59 | | Melrose High School | -4.64 | | Nashoba Valley Technical High School | -5.56 | | Auburn High School | -6.67 | | Grafton High School | -7.69 | | Ayer Shirley Regional High School | -8.70 | | Nantucket High School | -9.96 | | Boston Green Academy | -15.15 | | Avon Middle-High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Millbury Memorial Junior/Senior High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | |

**Table A.7**

*Percent Point Change in AP Science Course Passing, One Year After Intervention*

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| **African American / Black Male** | |
| ***School Name*** | ***Percentage point change*** |
| Chicopee Comprehensive High School | 12.50 |
| Claremont Academy | 10.53 |
| Saugus High School | 10.00 |
| Ludlow High School | 8.33 |
| Avon Middle-High School | 6.57 |
| Chicopee High School | 6.25 |
| Taconic High School | 5.88 |
| Westfield High School | 5.26 |
| New Bedford High School | 3.08 |
| Nantucket High School | 2.94 |
| Pittsfield High School | 1.92 |
| Roger L. Putnam Vocational Technical Academy | 0.82 |
| Excel High School | 0.36 |
| Ayer Shirley Regional High School | 0.00 |
| Bartlett Junior Senior High School | 0.00 |
| Holyoke High School | 0.00 |
| Joseph Case High School | 0.00 |
| Joseph P. Keefe Regional Technical School | 0.00 |
| Melrose High School | 0.00 |
| Wareham High School | 0.00 |
| Whitman-Hanson Regional High School | 0.00 |
| Barnstable High School | -0.48 |
| Somerville High School | -1.26 |
| TechBoston Academy | -1.31 |
| Jeremiah E. Burke High School | -1.45 |
| Fitchburg High School | -1.82 |
| Boston Green Academy | -2.15 |
| West Roxbury Academy | -2.50 |
| Urban Science Academy | -2.88 |
| Charlestown High School | -5.31 |
| Auburn High School | . |
| Bay Path Regional Vocational Technical High School | . |
| Blackstone-Millville Regional High School | . |
| Bourne High School | . |
| Carver High School | . |
| David Prouty High School | . |
| Drury High School | . |
| East Bridgewater High School | . |
| Franklin County Technical School | . |
| Gardner High School | . |
| Grafton High School | . |
| Granby Junior-Senior High School | . |
| Lee Middle and High School | . |
| Leicester High School | . |
| Millbury Memorial Junior/Senior High School | . |
| Nashoba Valley Technical High School | . |
| North Brookfield High School | . |
| Oxford High School | . |
| Pathfinder Regional Vocational Technical High School | . |
| Seekonk High School | . |
| Shepherd Hill Regional High School | . |
| Sutton Memorial High School | . |
| Tantasqua High School | . |
| Tri-County Regional Vocational Technical High School | . |
| Wahconah Regional High School | . |

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| |  |  | | --- | --- | | **African American / Black Female** | | | ***School Name*** | ***Percentage point change*** | | Chicopee High School | 7.69 | | Wareham High School | 3.13 | | Nantucket High School | 2.38 | | Melrose High School | 2.22 | | Fitchburg High School | 2.04 | | Roger L. Putnam Vocational Technical Academy | 1.90 | | Pittsfield High School | 1.85 | | Jeremiah E. Burke High School | 1.57 | | Excel High School | 0.38 | | Taconic High School | 0.12 | | Ayer Shirley Regional High School | 0.00 | | Barnstable High School | 0.00 | | Chicopee Comprehensive High School | 0.00 | | Holyoke High School | 0.00 | | Joseph P. Keefe Regional Technical School | 0.00 | | Somerville High School | -0.45 | | Charlestown High School | -0.57 | | Avon Middle-High School | -0.91 | | New Bedford High School | -1.11 | | TechBoston Academy | -1.75 | | West Roxbury Academy | -5.17 | | Urban Science Academy | -7.19 | | Boston Green Academy | -8.18 | | Bartlett Junior Senior High School | -8.33 | | Whitman-Hanson Regional High School | -9.09 | | Auburn High School | . | | Bay Path Regional Vocational Technical High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | Claremont Academy | . | | David Prouty High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Gardner High School | . | | Grafton High School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | Ludlow High School | . | | Millbury Memorial Junior/Senior High School | . | | Nashoba Valley Technical High School | . | | North Brookfield High School | . | | Oxford High School | . | | Pathfinder Regional Vocational Technical High School | . | | Saugus High School | . | | Seekonk High School | . | | Shepherd Hill Regional High School | . | | Sutton Memorial High School | . | | Tantasqua High School | . | | Tri-County Regional Vocational Technical High School | . | | Wahconah Regional High School | . | | Westfield High School | . | |

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| |  |  | | --- | --- | | **Hispanic/Latino Male** | | | ***School Name*** | ***Percentage point change*** | | Tantasqua High School | 9.95 | | Nashoba Valley Technical High School | 8.00 | | Auburn High School | 7.14 | | Taconic High School | 6.90 | | Gardner High School | 5.88 | | Barnstable High School | 3.45 | | Bartlett Junior Senior High School | 3.45 | | Saugus High School | 3.03 | | Chicopee High School | 2.84 | | Westfield High School | 2.56 | | Pittsfield High School | 2.33 | | Holyoke High School | 1.51 | | West Roxbury Academy | 1.33 | | Fitchburg High School | 0.91 | | Claremont Academy | 0.73 | | Roger L. Putnam Vocational Technical Academy | 0.32 | | Bay Path Regional Vocational Technical High School | 0.00 | | Chicopee Comprehensive High School | 0.00 | | Joseph P. Keefe Regional Technical School | 0.00 | | Ludlow High School | 0.00 | | Melrose High School | 0.00 | | Oxford High School | 0.00 | | Pathfinder Regional Vocational Technical High School | 0.00 | | Shepherd Hill Regional High School | 0.00 | | Tri-County Regional Vocational Technical High School | 0.00 | | Ayer Shirley Regional High School | -0.48 | | Grafton High School | -1.10 | | New Bedford High School | -1.13 | | Excel High School | -1.14 | | Jeremiah E. Burke High School | -1.16 | | Charlestown High School | -1.51 | | Somerville High School | -1.76 | | TechBoston Academy | -2.72 | | Urban Science Academy | -2.75 | | Nantucket High School | -2.86 | | Bourne High School | -6.25 | | Boston Green Academy | -6.67 | | Wareham High School | -6.67 | | Millbury Memorial Junior/Senior High School | -7.14 | | David Prouty High School | -11.76 | | Avon Middle-High School | . | | Blackstone-Millville Regional High School | . | | Carver High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | | Whitman-Hanson Regional High School | . | |

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| |  |  | | --- | --- | | **Hispanic/Latino Female** | | | ***School Name*** | ***Percentage point change*** | | Tantasqua High School | 20.00 | | Whitman-Hanson Regional High School | 11.11 | | Leicester High School | 10.71 | | Drury High School | 9.09 | | Saugus High School | 7.88 | | David Prouty High School | 5.88 | | Shepherd Hill Regional High School | 4.76 | | Taconic High School | 4.55 | | Gardner High School | 4.00 | | Tri-County Regional Vocational Technical High School | 3.85 | | Urban Science Academy | 3.47 | | West Roxbury Academy | 3.40 | | Ludlow High School | 2.94 | | Westfield High School | 2.50 | | Holyoke High School | 2.16 | | Charlestown High School | 1.80 | | Excel High School | 1.18 | | Chicopee Comprehensive High School | 0.69 | | Roger L. Putnam Vocational Technical Academy | 0.45 | | Fitchburg High School | 0.41 | | Jeremiah E. Burke High School | 0.05 | | Auburn High School | 0.00 | | Bartlett Junior Senior High School | 0.00 | | Bay Path Regional Vocational Technical High School | 0.00 | | Joseph P. Keefe Regional Technical School | 0.00 | | Lee Middle and High School | 0.00 | | Melrose High School | 0.00 | | Nantucket High School | 0.00 | | Pathfinder Regional Vocational Technical High School | 0.00 | | Pittsfield High School | 0.00 | | Wareham High School | 0.00 | | Chicopee High School | -0.05 | | Oxford High School | -1.12 | | New Bedford High School | -1.34 | | Somerville High School | -1.69 | | Barnstable High School | -2.38 | | Nashoba Valley Technical High School | -5.56 | | Claremont Academy | -6.10 | | TechBoston Academy | -6.98 | | Grafton High School | -7.69 | | Ayer Shirley Regional High School | -8.70 | | Boston Green Academy | -9.09 | | Avon Middle-High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Millbury Memorial Junior/Senior High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | |

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**Table A.8**

*Percent Point Change in Any (ELA, Math, or Science) AP Course Passing, Three Years After Intervention*

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| |  |  | | --- | --- | | **African American / Black Male** | | | ***School Name*** | ***Percentage point change*** | | Fitchburg High School | 19.80 | | Melrose High School | 18.92 | | Saugus High School | 15.00 | | Westfield High School | 13.04 | | Taconic High School | 11.90 | | Boston Green Academy | 9.48 | | Chicopee Comprehensive High School | 8.70 | | Roger L. Putnam Vocational Technical Academy | 7.63 | | Pittsfield High School | 7.25 | | Claremont Academy | 5.66 | | Nantucket High School | 4.00 | | New Bedford High School | 3.72 | | TechBoston Academy | 2.74 | | Somerville High School | 1.72 | | Jeremiah E. Burke High School | 1.46 | | Barnstable High School | 0.59 | | Gardner High School | 0.00 | | Holyoke High School | 0.00 | | Joseph P. Keefe Regional Technical School | 0.00 | | Wareham High School | 0.00 | | Whitman-Hanson Regional High School | 0.00 | | Avon Middle-High School | -0.93 | | Excel High School | -1.70 | | Urban Science Academy | -2.36 | | Charlestown High School | -3.30 | | Chicopee High School | -5.88 | | West Roxbury Academy | -9.17 | | Auburn High School | . | | Ayer Shirley Regional High School | . | | Bartlett Junior Senior High School | . | | Bay Path Regional Vocational Technical High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | David Prouty High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Grafton High School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | Ludlow High School | . | | Millbury Memorial Junior/Senior High School | . | | Nashoba Valley Technical High School | . | | North Brookfield High School | . | | Oxford High School | . | | Pathfinder Regional Vocational Technical High School | . | | Seekonk High School | . | | Shepherd Hill Regional High School | . | | Sutton Memorial High School | . | | Tantasqua High School | . | | Tri-County Regional Vocational Technical High School | . | | Wahconah Regional High School | . | |

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| |  |  | | --- | --- | | **African American / Black Female** | | | ***School Name*** | ***Percentage point change*** | | Ayer Shirley Regional High School | 35.71 | | Fitchburg High School | 31.16 | | Chicopee High School | 15.79 | | Holyoke High School | 15.34 | | Avon Middle-High School | 9.74 | | Melrose High School | 9.64 | | Joseph P. Keefe Regional Technical School | 8.00 | | Jeremiah E. Burke High School | 7.18 | | Nantucket High School | 5.53 | | Charlestown High School | 5.35 | | Boston Green Academy | 5.19 | | Wareham High School | 4.44 | | Taconic High School | 4.43 | | Roger L. Putnam Vocational Technical Academy | 4.33 | | Excel High School | 3.62 | | Barnstable High School | 2.08 | | New Bedford High School | 1.82 | | TechBoston Academy | 1.25 | | Somerville High School | 0.91 | | Pittsfield High School | 0.88 | | Chicopee Comprehensive High School | 0.00 | | Westfield High School | 0.00 | | Urban Science Academy | -3.83 | | West Roxbury Academy | -14.91 | | Auburn High School | . | | Bartlett Junior Senior High School | . | | Bay Path Regional Vocational Technical High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | Claremont Academy | . | | David Prouty High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Gardner High School | . | | Grafton High School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | Ludlow High School | . | | Millbury Memorial Junior/Senior High School | . | | Nashoba Valley Technical High School | . | | North Brookfield High School | . | | Oxford High School | . | | Pathfinder Regional Vocational Technical High School | . | | Saugus High School | . | | Seekonk High School | . | | Shepherd Hill Regional High School | . | | Sutton Memorial High School | . | | Tantasqua High School | . | | Tri-County Regional Vocational Technical High School | . | | Wahconah Regional High School | . | | Whitman-Hanson Regional High School | . | |

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| |  |  | | --- | --- | | **Hispanic/Latino Male** | | | ***School Name*** | ***Percentage point change*** | | Saugus High School | 16.67 | | Ayer Shirley Regional High School | 15.00 | | Shepherd Hill Regional High School | 13.89 | | Bartlett Junior Senior High School | 10.26 | | Nashoba Valley Technical High School | 8.70 | | Ludlow High School | 7.32 | | Westfield High School | 6.35 | | Taconic High School | 6.18 | | Holyoke High School | 5.88 | | Jeremiah E. Burke High School | 5.56 | | Excel High School | 5.42 | | Gardner High School | 5.41 | | Auburn High School | 5.26 | | Fitchburg High School | 5.07 | | Roger L. Putnam Vocational Technical Academy | 4.32 | | Joseph P. Keefe Regional Technical School | 3.91 | | Tri-County Regional Vocational Technical High School | 3.70 | | Claremont Academy | 2.59 | | TechBoston Academy | 2.50 | | Nantucket High School | 2.34 | | Chicopee Comprehensive High School | 2.03 | | New Bedford High School | 1.31 | | Chicopee High School | 1.14 | | Somerville High School | 0.39 | | Blackstone-Millville Regional High School | 0.00 | | Pathfinder Regional Vocational Technical High School | 0.00 | | Barnstable High School | -0.79 | | Charlestown High School | -2.10 | | Wareham High School | -2.50 | | Bay Path Regional Vocational Technical High School | -3.03 | | Pittsfield High School | -3.53 | | David Prouty High School | -4.07 | | Boston Green Academy | -4.44 | | Urban Science Academy | -4.54 | | Bourne High School | -6.25 | | West Roxbury Academy | -6.56 | | Oxford High School | -7.69 | | Tantasqua High School | -7.69 | | Grafton High School | -9.13 | | Melrose High School | -9.94 | | Millbury Memorial Junior/Senior High School | -16.67 | | Avon Middle-High School | . | | Carver High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | | Whitman-Hanson Regional High School | . | |

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| |  |  | | --- | --- | | **Hispanic/Latino Female** | | | ***School Name*** | ***Percentage point change*** | | David Prouty High School | 32.58 | | Whitman-Hanson Regional High School | 27.27 | | Ayer Shirley Regional High School | 18.58 | | Lee Middle and High School | 18.18 | | Wareham High School | 15.50 | | Fitchburg High School | 15.01 | | Tantasqua High School | 13.33 | | Ludlow High School | 12.26 | | Melrose High School | 12.20 | | Bartlett Junior Senior High School | 11.95 | | Jeremiah E. Burke High School | 10.60 | | Taconic High School | 10.53 | | Holyoke High School | 10.37 | | Leicester High School | 9.24 | | Auburn High School | 9.12 | | Saugus High School | 7.43 | | Chicopee High School | 5.58 | | Gardner High School | 5.44 | | Pathfinder Regional Vocational Technical High School | 5.26 | | Westfield High School | 5.26 | | Shepherd Hill Regional High School | 5.23 | | Joseph P. Keefe Regional Technical School | 4.93 | | New Bedford High School | 4.22 | | Nashoba Valley Technical High School | 2.78 | | Bay Path Regional Vocational Technical High School | 2.38 | | Pittsfield High School | 2.13 | | Roger L. Putnam Vocational Technical Academy | 1.57 | | Charlestown High School | 1.44 | | Chicopee Comprehensive High School | 1.28 | | Urban Science Academy | 0.54 | | Somerville High School | 0.37 | | Grafton High School | 0.00 | | Claremont Academy | -0.30 | | Tri-County Regional Vocational Technical High School | -0.62 | | Excel High School | -0.67 | | Oxford High School | -1.12 | | TechBoston Academy | -3.53 | | Barnstable High School | -5.45 | | Boston Green Academy | -8.17 | | Nantucket High School | -8.82 | | West Roxbury Academy | -15.31 | | Avon Middle-High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Millbury Memorial Junior/Senior High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | |

**Table A.9**

*Percent Point Change in AP Science Course Passing, Three Years After Intervention*

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| |  |  | | --- | --- | | **African American / Black Male** | | | ***School Name*** | ***Percentage point change*** | | Fitchburg High School | 11.70 | | Melrose High School | 10.81 | | Saugus High School | 10.00 | | Westfield High School | 8.70 | | Claremont Academy | 7.69 | | Pittsfield High School | 7.14 | | Chicopee Comprehensive High School | 4.35 | | Boston Green Academy | 3.66 | | New Bedford High School | 3.52 | | Taconic High School | 2.38 | | Somerville High School | 1.59 | | TechBoston Academy | 0.86 | | Roger L. Putnam Vocational Technical Academy | 0.85 | | Chicopee High School | 0.00 | | Gardner High School | 0.00 | | Holyoke High School | 0.00 | | Joseph P. Keefe Regional Technical School | 0.00 | | Nantucket High School | 0.00 | | Wareham High School | 0.00 | | Whitman-Hanson Regional High School | 0.00 | | Excel High School | -0.61 | | Barnstable High School | -1.13 | | Jeremiah E. Burke High School | -2.19 | | Urban Science Academy | -3.52 | | West Roxbury Academy | -4.17 | | Avon Middle-High School | -5.19 | | Charlestown High School | -5.31 | | Auburn High School | . | | Ayer Shirley Regional High School | . | | Bartlett Junior Senior High School | . | | Bay Path Regional Vocational Technical High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | David Prouty High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Grafton High School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | Ludlow High School | . | | Millbury Memorial Junior/Senior High School | . | | Nashoba Valley Technical High School | . | | North Brookfield High School | . | | Oxford High School | . | | Pathfinder Regional Vocational Technical High School | . | | Seekonk High School | . | | Shepherd Hill Regional High School | . | | Sutton Memorial High School | . | | Tantasqua High School | . | | Tri-County Regional Vocational Technical High School | . | | Wahconah Regional High School | . | |

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| |  |  | | --- | --- | | **African American / Black Female** | | | ***School Name*** | ***Percentage point change*** | | Ayer Shirley Regional High School | 14.29 | | Chicopee High School | 10.53 | | Holyoke High School | 9.52 | | Fitchburg High School | 7.69 | | Taconic High School | 4.60 | | Joseph P. Keefe Regional Technical School | 4.00 | | Excel High School | 3.73 | | Melrose High School | 2.50 | | Pittsfield High School | 2.14 | | Jeremiah E. Burke High School | 1.83 | | Charlestown High School | 1.48 | | TechBoston Academy | 1.10 | | Somerville High School | 1.04 | | Barnstable High School | 0.00 | | Chicopee Comprehensive High School | 0.00 | | Roger L. Putnam Vocational Technical Academy | 0.00 | | Wareham High School | 0.00 | | Westfield High School | 0.00 | | Avon Middle-High School | -0.85 | | Nantucket High School | -0.89 | | New Bedford High School | -1.35 | | Urban Science Academy | -5.99 | | West Roxbury Academy | -7.89 | | Boston Green Academy | -8.12 | | Auburn High School | . | | Bartlett Junior Senior High School | . | | Bay Path Regional Vocational Technical High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | Claremont Academy | . | | David Prouty High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Gardner High School | . | | Grafton High School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | Ludlow High School | . | | Millbury Memorial Junior/Senior High School | . | | Nashoba Valley Technical High School | . | | North Brookfield High School | . | | Oxford High School | . | | Pathfinder Regional Vocational Technical High School | . | | Saugus High School | . | | Seekonk High School | . | | Shepherd Hill Regional High School | . | | Sutton Memorial High School | . | | Tantasqua High School | . | | Tri-County Regional Vocational Technical High School | . | | Wahconah Regional High School | . | | Whitman-Hanson Regional High School | . | |

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| |  |  | | --- | --- | | **Hispanic/Latino Male** | | | ***School Name*** | ***Percentage point change*** | | Saugus High School | 8.33 | | Westfield High School | 6.35 | | Holyoke High School | 6.11 | | Shepherd Hill Regional High School | 5.56 | | Gardner High School | 5.41 | | Ludlow High School | 4.88 | | Melrose High School | 4.35 | | Claremont Academy | 3.53 | | Taconic High School | 3.45 | | Fitchburg High School | 3.27 | | Bartlett Junior Senior High School | 2.56 | | Ayer Shirley Regional High School | 2.50 | | Joseph P. Keefe Regional Technical School | 2.23 | | Pittsfield High School | 2.08 | | Barnstable High School | 1.39 | | Somerville High School | 1.03 | | Chicopee High School | 0.57 | | Chicopee Comprehensive High School | 0.51 | | Auburn High School | 0.00 | | Bay Path Regional Vocational Technical High School | 0.00 | | Blackstone-Millville Regional High School | 0.00 | | Jeremiah E. Burke High School | 0.00 | | Nashoba Valley Technical High School | 0.00 | | Oxford High School | 0.00 | | Pathfinder Regional Vocational Technical High School | 0.00 | | Tri-County Regional Vocational Technical High School | 0.00 | | Excel High School | -0.04 | | New Bedford High School | -0.16 | | Roger L. Putnam Vocational Technical Academy | -0.55 | | Charlestown High School | -1.38 | | West Roxbury Academy | -1.64 | | Wareham High School | -2.50 | | TechBoston Academy | -2.83 | | Nantucket High School | -2.86 | | Boston Green Academy | -4.44 | | Urban Science Academy | -5.68 | | Bourne High School | -6.25 | | Millbury Memorial Junior/Senior High School | -7.14 | | Tantasqua High School | -7.69 | | David Prouty High School | -11.76 | | Grafton High School | -15.38 | | Avon Middle-High School | . | | Carver High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | | Whitman-Hanson Regional High School | . | |

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| |  |  | | --- | --- | | **Hispanic/Latino Female** | | | ***School Name*** | ***Percentage point change*** | | Tantasqua High School | 20.00 | | David Prouty High School | 17.19 | | Melrose High School | 13.64 | | Whitman-Hanson Regional High School | 9.09 | | Shepherd Hill Regional High School | 7.41 | | Fitchburg High School | 6.63 | | Holyoke High School | 5.85 | | Auburn High School | 5.26 | | Wareham High School | 5.26 | | Urban Science Academy | 4.49 | | Westfield High School | 3.95 | | Pittsfield High School | 3.92 | | Saugus High School | 3.37 | | Joseph P. Keefe Regional Technical School | 2.82 | | Bay Path Regional Vocational Technical High School | 2.38 | | Excel High School | 1.91 | | Chicopee Comprehensive High School | 1.65 | | Jeremiah E. Burke High School | 1.65 | | Chicopee High School | 1.33 | | Roger L. Putnam Vocational Technical Academy | 0.93 | | Ludlow High School | 0.72 | | New Bedford High School | 0.59 | | Charlestown High School | 0.52 | | Ayer Shirley Regional High School | 0.40 | | Bartlett Junior Senior High School | 0.00 | | Gardner High School | 0.00 | | Grafton High School | 0.00 | | Lee Middle and High School | 0.00 | | Nantucket High School | 0.00 | | Pathfinder Regional Vocational Technical High School | 0.00 | | Taconic High School | 0.00 | | Tri-County Regional Vocational Technical High School | 0.00 | | Somerville High School | -0.24 | | Barnstable High School | -2.38 | | Leicester High School | -2.52 | | Claremont Academy | -3.74 | | TechBoston Academy | -5.05 | | Nashoba Valley Technical High School | -5.56 | | Oxford High School | -5.88 | | West Roxbury Academy | -6.12 | | Boston Green Academy | -6.77 | | Avon Middle-High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Millbury Memorial Junior/Senior High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | |

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## Appendix B: Percentage point change in Any (ELA, Math, or Science) AP or AP Science exam taking or passing—One year and three years after intervention

Appendix B summarizes the descriptive statistics for schools by student group and gender of interest. The first table provides a high-level summary, while the subsequent tables present the percentage point change of AP exam takers and passers for one and three years after intervention for each student group of interest. Each table presents the schools ordered by percentage point change with the highest performing and lowest performing schools indicated. Please see [Highest Performing and Lowest Performing Cutoffs](#_Highest_Performing_and) for more information.

[Table B.1. Percentage Point Change in Any (ELA, Math, or Science) AP and AP Science Exam Taking or Passing—Summary](#TableA1)

[Table B.2. Percent Point Change in Any AP Exam Taking, One Year After Intervention](#TableA2)

[Table B.3. Percent Point Change in AP Science Exam Taking, One Year After Intervention](#TableA3)

[Table B.4. Percent Point Change in Any AP Exam Taking, Three years After Intervention](#TableA4)

[Table B.5. Percent Point Change in AP Science Exam Taking, Three Years After Intervention](#TableA5)

[Table B.6. Percent Point Change in Any AP Exam Passing, One Year After Intervention](#TableA2)

[Table B.7. Percent Point Change in AP Science Exam Passing, One Year After Intervention](#TableA3)

[Table B.8. Percent Point Change in Any AP Exam Passing, Three years After Intervention](#TableA4)

[Table B.9. Percent Point Change in AP Science Exam Passing, Three Years After Intervention](#TableA5)

**Table B.1**

*Percentage Point Change in Any (ELA, Math, or Science) AP or AP Science Exam Taking or Passing—Summary*

|  | **Descriptive Statistics (Restricted Group Size)** | | | | | | | | | | | | | | **Cutoff** | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **N** | **Minimum** | **Maximum** | **Mean** | **Median** | **Std. Deviation** | **Skewness** | | **Kurtosis** | | **Quartiles** | | | **Max of lowest** | | **Min of highest** |
| **Statistic** | **Std. Error** | **Statistic** | **Std. Error** | **25** | **50** | **75** |
|  | **AP exam takers, One year after intervention** | | | | | | | | | | | | | |  | |
| ***Any AP exam takers*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
| African American / Black Male | 30 | -7.12 | 16.67 | 2.46 | 1.40 | 5.28 | 0.84 | 0.43 | 0.86 | 0.83 | 0.00 | 1.40 | 5.18 | 0.00 | | 5.18 |
| African American / Black Female | 25 | -5.88 | 18.75 | 3.01 | 1.86 | 6.60 | 1.08 | 0.46 | 0.91 | 0.90 | -1.20 | 1.86 | 5.67 | -1.20 | | 5.67 |
| Hispanic/Latino Male | 40 | -8.10 | 19.12 | 1.95 | 1.42 | 5.68 | 0.77 | 0.37 | 1.65 | 0.73 | -1.07 | 1.42 | 4.88 | -1.07 | | 4.88 |
| Hispanic/Latino Female | 42 | -18.97 | 66.67 | 5.64 | 2.00 | 15.93 | 2.18 | 0.37 | 5.75 | 0.72 | -2.57 | 2.00 | 7.59 | -2.57 | | 7.59 |
| ***AP Science exam takers*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
| African American / Black Male | 30 | -3.86 | 12.50 | 1.79 | 0.00 | 4.20 | 1.14 | 0.43 | 0.63 | 0.83 | -0.20 | 0.00 | 3.63 | -0.20 | | 3.63 |
| African American / Black Female | 25 | -5.88 | 10.00 | 0.53 | 0.01 | 3.61 | 0.65 | 0.46 | 1.02 | 0.90 | -1.66 | 0.01 | 2.34 | -1.66 | | 2.34 |
| Hispanic/Latino Male | 40 | -7.14 | 8.00 | 0.94 | 0.00 | 3.12 | -0.03 | 0.37 | 1.24 | 0.73 | -0.61 | 0.00 | 2.91 | -0.61 | | 2.91 |
| Hispanic/Latino Female | 42 | -10.00 | 50.00 | 4.17 | 1.40 | 11.10 | 2.78 | 0.37 | 9.04 | 0.72 | -0.13 | 1.40 | 4.74 | -0.13 | | 4.74 |
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|  | **AP exam takers, Three years after intervention** | | | | | | | | | | | | | |  | |
| ***Any AP exam takers*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
| African American / Black Male | 27 | -9.14 | 16.22 | 3.22 | 0.74 | 7.09 | 0.28 | 0.45 | -0.95 | 0.87 | -1.15 | 0.74 | 9.48 | -1.15 | | 9.48 |
| African American / Black Female | 24 | -11.77 | 62.50 | 7.63 | 3.58 | 13.89 | 2.81 | 0.47 | 10.72 | 0.92 | 0.87 | 3.58 | 10.36 | 0.87 | | 10.36 |
| Hispanic/Latino Male | 41 | -16.67 | 16.67 | 1.68 | 1.81 | 6.59 | -0.13 | 0.37 | 0.92 | 0.72 | -2.16 | 1.81 | 5.69 | -2.16 | | 5.69 |
| Hispanic/Latino Female | 41 | -20.32 | 22.50 | 3.56 | 3.57 | 8.67 | 0.02 | 0.37 | 0.74 | 0.72 | -2.09 | 3.57 | 8.49 | -2.09 | | 8.49 |
| ***AP Science exam takers*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
| African American / Black Male | 27 | -7.32 | 10.81 | 1.52 | 0.00 | 4.31 | 0.45 | 0.45 | 0.29 | 0.87 | -0.61 | 0.00 | 4.04 | -0.61 | | 4.04 |
| African American / Black Female | 24 | -5.78 | 25.00 | 2.03 | 0.62 | 6.23 | 2.34 | 0.47 | 7.71 | 0.92 | 0.00 | 0.62 | 2.49 | 0.00 | | 2.49 |
| Hispanic/Latino Male | 41 | -15.38 | 8.33 | 0.32 | 0.00 | 4.50 | -1.04 | 0.37 | 2.66 | 0.72 | -1.17 | 0.00 | 3.09 | -1.17 | | 3.09 |
| Hispanic/Latino Female | 41 | -13.33 | 13.04 | 1.30 | 0.90 | 4.77 | -0.33 | 0.37 | 1.71 | 0.72 | -0.98 | 0.90 | 4.17 | -0.98 | | 4.17 |
| \* Cutoff was adjusted in cases where cutoff value was attributed to multiple schools. | | | |  |  |  |  |  |  |  |  |  |  |  | |  |

|  | **Descriptive Statistics (Restricted Group Size)** | | | | | | | | | | | | | | **Cutoff** | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **N** | **Minimum** | **Maximum** | **Mean** | **Median** | **Std. Deviation** | **Skewness** | | **Kurtosis** | | **Quartiles** | | | **Max of lowest** | | **Min of highest** |
| **Statistic** | **Std. Error** | **Statistic** | **Std. Error** | **25** | **50** | **75** |
|  | **AP exam passers, One year after intervention** | | | | | | | | | | | | | |  | |
| ***Any AP exam passers*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
| African American / Black Male | 30 | -2.86 | 16.67 | 1.35 | 0.00 | 4.07 | 2.78 | 0.43 | 7.90 | 0.83 | 0.00 | 0.00 | 0.78 | 0.00 | | 0.78 |
| African American / Black Female | 25 | -9.09 | 8.57 | 0.30 | 0.00 | 3.42 | 0.10 | 0.46 | 2.89 | 0.90 | -1.11 | 0.00 | 1.65 | -1.11 | | 1.65 |
| Hispanic/Latino Male | 40 | -10.00 | 9.95 | 0.18 | 0.00 | 3.82 | -0.47 | 0.37 | 1.96 | 0.73 | -0.20 | 0.00 | 2.26 | -0.20 | | 2.26 |
| Hispanic/Latino Female | 42 | -26.02 | 17.86 | 0.07 | 0.00 | 6.28 | -1.19 | 0.37 | 7.88 | 0.72 | -0.44 | 0.00 | 1.00 | -0.44 | | 1.00 |
| ***AP Science exam passers*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
| African American / Black Male | 30 | -2.86 | 12.50 | 0.78 | 0.00 | 2.93 | 2.97 | 0.43 | 9.70 | 0.83 | 0.00 | 0.00 | 0.03 | 0.00 | | 0.03 |
| African American / Black Female | 25 | -9.09 | 2.50 | -0.35 | 0.00 | 2.06 | -3.30 | 0.46 | 14.45 | 0.90 | -0.09 | 0.00 | 0.00 | -0.09 | | 0.00 |
| Hispanic/Latino Male | 40 | -7.69 | 7.14 | 0.37 | 0.00 | 2.62 | -0.40 | 0.37 | 4.27 | 0.73 | 0.00 | 0.00 | 0.57 | 0.00 | | 0.57 |
| Hispanic/Latino Female | 42 | -8.70 | 11.11 | 0.54 | 0.00 | 3.31 | 0.72 | 0.37 | 4.71 | 0.72 | 0.00 | 0.00 | 0.06 | 0.00 | | 0.06 |
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|  | **AP exam passers, Three years after intervention** | | | | | | | | | | | | | |  | |
| ***Any AP exam passers*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
| African American / Black Male | 27 | -5.88 | 10.81 | 1.17 | 0.00 | 3.00 | 0.94 | 0.45 | 3.79 | 0.87 | 0.00 | 0.00 | 2.90 | 0.00 | | 2.90 |
| African American / Black Female | 24 | -2.34 | 21.43 | 2.71 | 0.46 | 5.07 | 2.52 | 0.47 | 7.62 | 0.92 | 0.00 | 0.46 | 4.25 | 0.00 | | 4.25 |
| Hispanic/Latino Male | 41 | -14.29 | 15.00 | 0.10 | 0.00 | 4.79 | -0.15 | 0.37 | 3.19 | 0.72 | -0.74 | 0.00 | 1.94 | -0.74 | | 1.94 |
| Hispanic/Latino Female | 41 | -27.27 | 13.64 | 0.72 | 0.00 | 6.56 | -1.76 | 0.37 | 7.92 | 0.72 | -0.23 | 0.00 | 2.71 | -0.23 | | 2.71 |
| ***AP Science exam passers*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |
| African American / Black Male | 27 | -2.86 | 5.41 | 0.49 | 0.00 | 1.82 | 1.41 | 0.45 | 2.94 | 0.87 | 0.00 | 0.00 | 0.52 | 0.00 | | 0.52 |
| African American / Black Female | 24 | -2.22 | 10.53 | 1.10 | 0.00 | 2.86 | 2.05 | 0.47 | 4.65 | 0.92 | 0.00 | 0.00 | 2.15 | 0.00 | | 2.15 |
| Hispanic/Latino Male | 41 | -7.69 | 6.25 | -0.04 | 0.00 | 2.89 | -0.91 | 0.37 | 2.58 | 0.72 | 0.00 | 0.00 | 0.53 | 0.00 | | 0.53 |
| Hispanic/Latino Female | 41 | -8.70 | 9.09 | 0.56 | 0.00 | 2.68 | 0.60 | 0.37 | 6.20 | 0.72 | 0.00 | 0.00 | 0.30 | 0.00 | | 0.30 |

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| **Table B.2**  *Percent Point Change in Any (ELA, Math, or Science) AP Exam Taking, One Year After Intervention* |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **African American / Black Male** | | | ***School Name*** | ***Percentage point change*** | | Ludlow High School | 16.67 | | Chicopee Comprehensive High School | 12.50 | | Melrose High School | 11.11 | | Saugus High School | 10.00 | | Taconic High School | 8.82 | | Chicopee High School | 6.62 | | Westfield High School | 5.26 | | New Bedford High School | 5.15 | | Boston Green Academy | 3.53 | | Somerville High School | 3.28 | | Nantucket High School | 2.94 | | Roger L. Putnam Vocational Technical Academy | 2.33 | | Fitchburg High School | 1.95 | | Pittsfield High School | 1.92 | | Excel High School | 1.45 | | Jeremiah E. Burke High School | 1.36 | | TechBoston Academy | 0.77 | | Ayer Shirley Regional High School | 0.00 | | Bartlett Junior Senior High School | 0.00 | | Holyoke High School | 0.00 | | Joseph Case High School | 0.00 | | Joseph P. Keefe Regional Technical School | 0.00 | | Wareham High School | 0.00 | | Whitman-Hanson Regional High School | 0.00 | | Barnstable High School | -0.48 | | Avon Middle-High School | -1.76 | | Charlestown High School | -3.82 | | West Roxbury Academy | -4.17 | | Urban Science Academy | -4.52 | | Claremont Academy | -7.12 | | Auburn High School | . | | Bay Path Regional Vocational Technical High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | David Prouty High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Gardner High School | . | | Grafton High School | . | | Granby Junior-Senior High School | . | | Lee Middle and High School | . | | Leicester High School | . | | Millbury Memorial Junior/Senior High School | . | | Nashoba Valley Technical High School | . | | North Brookfield High School | . | | Oxford High School | . | | Pathfinder Regional Vocational Technical High School | . | | Seekonk High School | . | | Shepherd Hill Regional High School | . | | Sutton Memorial High School | . | | Tantasqua High School | . | | Tri-County Regional Vocational Technical High School | . | | Wahconah Regional High School | . | |

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| |  |  | | --- | --- | | **African American / Black Female** | | | ***School Name*** | ***Percentage point change*** | | Chicopee Comprehensive High School | 18.75 | | Avon Middle-High School | 18.02 | | Melrose High School | 14.81 | | Bartlett Junior Senior High School | 10.00 | | Excel High School | 6.68 | | Chicopee High School | 6.25 | | Nantucket High School | 5.10 | | Joseph P. Keefe Regional Technical School | 4.35 | | TechBoston Academy | 2.82 | | Boston Green Academy | 2.82 | | Pittsfield High School | 2.80 | | Barnstable High School | 2.38 | | Somerville High School | 1.86 | | Charlestown High School | 1.58 | | Jeremiah E. Burke High School | 1.36 | | Roger L. Putnam Vocational Technical Academy | 0.49 | | Ayer Shirley Regional High School | 0.00 | | New Bedford High School | -0.54 | | Wareham High School | -0.74 | | West Roxbury Academy | -1.67 | | Taconic High School | -1.99 | | Fitchburg High School | -3.50 | | Urban Science Academy | -4.93 | | Holyoke High School | -5.56 | | Whitman-Hanson Regional High School | -5.88 | | Auburn High School | . | | Bay Path Regional Vocational Technical High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | Claremont Academy | . | | David Prouty High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Gardner High School | . | | Grafton High School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | Ludlow High School | . | | Millbury Memorial Junior/Senior High School | . | | Nashoba Valley Technical High School | . | | North Brookfield High School | . | | Oxford High School | . | | Pathfinder Regional Vocational Technical High School | . | | Saugus High School | . | | Seekonk High School | . | | Shepherd Hill Regional High School | . | | Sutton Memorial High School | . | | Tantasqua High School | . | | Tri-County Regional Vocational Technical High School | . | | Wahconah Regional High School | . | | Westfield High School | . | |

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| |  |  | | --- | --- | | **Hispanic/Latino Male** | | | ***School Name*** | ***Percentage point change*** | | David Prouty High School | 19.12 | | Nashoba Valley Technical High School | 16.00 | | Tantasqua High School | 9.95 | | Gardner High School | 8.82 | | Auburn High School | 7.14 | | Excel High School | 7.06 | | Bartlett Junior Senior High School | 6.90 | | Pathfinder Regional Vocational Technical High School | 6.25 | | Grafton High School | 6.04 | | Westfield High School | 5.13 | | Jeremiah E. Burke High School | 4.12 | | Chicopee High School | 3.97 | | Roger L. Putnam Vocational Technical Academy | 3.74 | | Saugus High School | 3.03 | | Holyoke High School | 2.82 | | Taconic High School | 2.73 | | Fitchburg High School | 2.70 | | Pittsfield High School | 2.09 | | Chicopee Comprehensive High School | 1.82 | | TechBoston Academy | 1.63 | | Joseph P. Keefe Regional Technical School | 1.20 | | Nantucket High School | 1.06 | | West Roxbury Academy | 0.20 | | Charlestown High School | 0.12 | | Bourne High School | 0.00 | | Ludlow High School | 0.00 | | Shepherd Hill Regional High School | 0.00 | | Tri-County Regional Vocational Technical High School | 0.00 | | Somerville High School | -0.65 | | Barnstable High School | -0.90 | | Claremont Academy | -1.13 | | New Bedford High School | -1.16 | | Urban Science Academy | -1.42 | | Bay Path Regional Vocational Technical High School | -2.61 | | Boston Green Academy | -3.01 | | Ayer Shirley Regional High School | -5.24 | | Wareham High School | -6.67 | | Melrose High School | -7.14 | | Oxford High School | -7.69 | | Millbury Memorial Junior/Senior High School | -8.10 | | Avon Middle-High School | . | | Blackstone-Millville Regional High School | . | | Carver High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | | Whitman-Hanson Regional High School | . | |

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| |  |  | | --- | --- | | **Hispanic/Latino Female** | | | ***School Name*** | ***Percentage point change*** | | Leicester High School | 66.67 | | Drury High School | 50.00 | | David Prouty High School | 41.67 | | Whitman-Hanson Regional High School | 30.00 | | Lee Middle and High School | 20.00 | | Melrose High School | 15.38 | | Roger L. Putnam Vocational Technical Academy | 11.89 | | Taconic High School | 10.34 | | Tri-County Regional Vocational Technical High School | 8.73 | | Tantasqua High School | 8.14 | | Ludlow High School | 7.41 | | Oxford High School | 7.31 | | Bartlett Junior Senior High School | 6.39 | | Fitchburg High School | 6.35 | | Joseph P. Keefe Regional Technical School | 5.42 | | Urban Science Academy | 5.40 | | Saugus High School | 3.90 | | Shepherd Hill Regional High School | 3.06 | | Holyoke High School | 2.60 | | Charlestown High School | 2.40 | | Somerville High School | 2.23 | | Excel High School | 1.77 | | Chicopee High School | 1.69 | | Jeremiah E. Burke High School | 0.67 | | Chicopee Comprehensive High School | 0.57 | | New Bedford High School | 0.22 | | Pathfinder Regional Vocational Technical High School | 0.00 | | West Roxbury Academy | -0.41 | | Wareham High School | -0.78 | | Boston Green Academy | -1.05 | | Barnstable High School | -1.35 | | Pittsfield High School | -2.56 | | TechBoston Academy | -2.60 | | Gardner High School | -2.69 | | Bay Path Regional Vocational Technical High School | -3.03 | | Nashoba Valley Technical High School | -4.76 | | Auburn High School | -7.14 | | Grafton High School | -7.69 | | Nantucket High School | -9.47 | | Ayer Shirley Regional High School | -10.24 | | Claremont Academy | -10.68 | | Westfield High School | -18.97 | | Avon Middle-High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Millbury Memorial Junior/Senior High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | |

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| **Table B.3**  *Percent Point Change in AP Science Exam Taking, One Year After Intervention* |

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| **African American / Black Male** | |
| ***School Name*** | ***Percentage point change*** |
| Chicopee Comprehensive High School | 12.50 |
| Claremont Academy | 10.53 |
| Saugus High School | 10.00 |
| Ludlow High School | 8.33 |
| Chicopee High School | 6.25 |
| Taconic High School | 5.88 |
| Westfield High School | 5.26 |
| New Bedford High School | 3.09 |
| Nantucket High School | 2.94 |
| Pittsfield High School | 1.92 |
| Boston Green Academy | 1.26 |
| Roger L. Putnam Vocational Technical Academy | 0.82 |
| Excel High School | 0.36 |
| TechBoston Academy | 0.13 |
| Ayer Shirley Regional High School | 0.00 |
| Bartlett Junior Senior High School | 0.00 |
| Holyoke High School | 0.00 |
| Joseph Case High School | 0.00 |
| Joseph P. Keefe Regional Technical School | 0.00 |
| Melrose High School | 0.00 |
| Wareham High School | 0.00 |
| Whitman-Hanson Regional High School | 0.00 |
| Somerville High School | -0.11 |
| Barnstable High School | -0.48 |
| Jeremiah E. Burke High School | -0.61 |
| Avon Middle-High School | -1.76 |
| West Roxbury Academy | -2.50 |
| Urban Science Academy | -2.79 |
| Fitchburg High School | -3.60 |
| Charlestown High School | -3.86 |
| Auburn High School | . |
| Bay Path Regional Vocational Technical High School | . |
| Blackstone-Millville Regional High School | . |
| Bourne High School | . |
| Carver High School | . |
| David Prouty High School | . |
| Drury High School | . |
| East Bridgewater High School | . |
| Franklin County Technical School | . |
| Gardner High School | . |
| Grafton High School | . |
| Granby Junior-Senior High School | . |
| Lee Middle and High School | . |
| Leicester High School | . |
| Millbury Memorial Junior/Senior High School | . |
| Nashoba Valley Technical High School | . |
| North Brookfield High School | . |
| Oxford High School | . |
| Pathfinder Regional Vocational Technical High School | . |
| Seekonk High School | . |
| Shepherd Hill Regional High School | . |
| Sutton Memorial High School | . |
| Tantasqua High School | . |
| Tri-County Regional Vocational Technical High School | . |
| Wahconah Regional High School | . |

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| |  |  | | --- | --- | | **African American / Black Female** | | | ***School Name*** | ***Percentage point change*** | | Bartlett Junior Senior High School | 10.00 | | Avon Middle-High School | 6.57 | | Chicopee High School | 6.25 | | Melrose High School | 3.70 | | Wareham High School | 2.86 | | Nantucket High School | 2.55 | | Somerville High School | 2.13 | | Jeremiah E. Burke High School | 1.55 | | Roger L. Putnam Vocational Technical Academy | 0.82 | | TechBoston Academy | 0.79 | | Taconic High School | 0.24 | | Charlestown High School | 0.01 | | Excel High School | 0.01 | | Ayer Shirley Regional High School | 0.00 | | Barnstable High School | 0.00 | | Chicopee Comprehensive High School | 0.00 | | Holyoke High School | 0.00 | | Joseph P. Keefe Regional Technical School | 0.00 | | New Bedford High School | -1.04 | | Pittsfield High School | -2.27 | | Boston Green Academy | -3.04 | | Urban Science Academy | -3.53 | | Fitchburg High School | -3.57 | | West Roxbury Academy | -5.00 | | Whitman-Hanson Regional High School | -5.88 | | Auburn High School | . | | Bay Path Regional Vocational Technical High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | Claremont Academy | . | | David Prouty High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Gardner High School | . | | Grafton High School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | Ludlow High School | . | | Millbury Memorial Junior/Senior High School | . | | Nashoba Valley Technical High School | . | | North Brookfield High School | . | | Oxford High School | . | | Pathfinder Regional Vocational Technical High School | . | | Saugus High School | . | | Seekonk High School | . | | Shepherd Hill Regional High School | . | | Sutton Memorial High School | . | | Tantasqua High School | . | | Tri-County Regional Vocational Technical High School | . | | Wahconah Regional High School | . | | Westfield High School | . | |

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| |  |  | | --- | --- | | **Hispanic/Latino Male** | | | ***School Name*** | ***Percentage point change*** | | Nashoba Valley Technical High School | 8.00 | | Auburn High School | 7.14 | | Taconic High School | 6.90 | | Gardner High School | 5.88 | | Claremont Academy | 4.40 | | Tantasqua High School | 4.07 | | Barnstable High School | 3.45 | | Bartlett Junior Senior High School | 3.45 | | Chicopee High School | 3.41 | | Saugus High School | 3.03 | | Westfield High School | 2.56 | | David Prouty High School | 2.45 | | Holyoke High School | 1.94 | | Fitchburg High School | 1.82 | | TechBoston Academy | 1.63 | | West Roxbury Academy | 1.33 | | Charlestown High School | 0.39 | | Somerville High School | 0.39 | | Bay Path Regional Vocational Technical High School | 0.00 | | Bourne High School | 0.00 | | Chicopee Comprehensive High School | 0.00 | | Joseph P. Keefe Regional Technical School | 0.00 | | Ludlow High School | 0.00 | | Melrose High School | 0.00 | | Oxford High School | 0.00 | | Pathfinder Regional Vocational Technical High School | 0.00 | | Pittsfield High School | 0.00 | | Shepherd Hill Regional High School | 0.00 | | Tri-County Regional Vocational Technical High School | 0.00 | | Ayer Shirley Regional High School | -0.24 | | Roger L. Putnam Vocational Technical Academy | -0.73 | | Boston Green Academy | -0.78 | | Grafton High School | -1.10 | | New Bedford High School | -1.13 | | Excel High School | -1.14 | | Jeremiah E. Burke High School | -1.16 | | Urban Science Academy | -1.61 | | Nantucket High School | -2.86 | | Wareham High School | -6.67 | | Millbury Memorial Junior/Senior High School | -7.14 | | Avon Middle-High School | . | | Blackstone-Millville Regional High School | . | | Carver High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | | Whitman-Hanson Regional High School | . | |

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| |  |  | | --- | --- | | **Hispanic/Latino Female** | | | ***School Name*** | ***Percentage point change*** | | Drury High School | 50.00 | | Leicester High School | 41.67 | | Lee Middle and High School | 20.00 | | Whitman-Hanson Regional High School | 20.00 | | Tantasqua High School | 11.76 | | David Prouty High School | 8.33 | | Melrose High School | 7.69 | | Saugus High School | 7.47 | | Ludlow High School | 7.41 | | Tri-County Regional Vocational Technical High School | 4.76 | | Urban Science Academy | 4.73 | | West Roxbury Academy | 3.82 | | Shepherd Hill Regional High School | 3.70 | | Taconic High School | 3.45 | | Gardner High School | 2.94 | | Fitchburg High School | 2.72 | | Westfield High School | 2.56 | | Holyoke High School | 2.15 | | Nantucket High School | 1.96 | | Charlestown High School | 1.62 | | Somerville High School | 1.47 | | Roger L. Putnam Vocational Technical Academy | 1.33 | | Chicopee Comprehensive High School | 0.61 | | Chicopee High School | 0.56 | | Jeremiah E. Burke High School | 0.22 | | Auburn High School | 0.00 | | Bartlett Junior Senior High School | 0.00 | | Bay Path Regional Vocational Technical High School | 0.00 | | Joseph P. Keefe Regional Technical School | 0.00 | | Pathfinder Regional Vocational Technical High School | 0.00 | | Pittsfield High School | 0.00 | | Wareham High School | 0.00 | | Boston Green Academy | -0.52 | | Excel High School | -0.55 | | New Bedford High School | -0.62 | | TechBoston Academy | -1.27 | | Barnstable High School | -2.17 | | Oxford High School | -2.69 | | Nashoba Valley Technical High School | -4.76 | | Claremont Academy | -7.35 | | Grafton High School | -7.69 | | Ayer Shirley Regional High School | -10.00 | | Avon Middle-High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Millbury Memorial Junior/Senior High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | |

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**Table B.4**

*Percent Point Change in Any (ELA, Math, or Science) AP Exam Taking, Three Years After Intervention*

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| |  |  | | --- | --- | | **African American / Black Male** | | | ***School Name*** | ***Percentage point change*** | | Melrose High School | 16.22 | | Saugus High School | 15.00 | | Fitchburg High School | 13.46 | | Westfield High School | 13.04 | | Taconic High School | 11.90 | | Pittsfield High School | 9.52 | | Boston Green Academy | 9.48 | | Roger L. Putnam Vocational Technical Academy | 9.34 | | Chicopee Comprehensive High School | 8.70 | | New Bedford High School | 4.76 | | Nantucket High School | 4.00 | | Somerville High School | 3.05 | | Jeremiah E. Burke High School | 2.86 | | TechBoston Academy | 0.74 | | Gardner High School | 0.00 | | Holyoke High School | 0.00 | | Joseph P. Keefe Regional Technical School | 0.00 | | Wareham High School | 0.00 | | Whitman-Hanson Regional High School | 0.00 | | Barnstable High School | -1.13 | | Charlestown High School | -1.15 | | Excel High School | -2.42 | | West Roxbury Academy | -3.99 | | Avon Middle-High School | -5.19 | | Chicopee High School | -5.88 | | Claremont Academy | -6.11 | | Urban Science Academy | -9.14 | | Auburn High School | . | | Ayer Shirley Regional High School | . | | Bartlett Junior Senior High School | . | | Bay Path Regional Vocational Technical High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | David Prouty High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Grafton High School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | Ludlow High School | . | | Millbury Memorial Junior/Senior High School | . | | Nashoba Valley Technical High School | . | | North Brookfield High School | . | | Oxford High School | . | | Pathfinder Regional Vocational Technical High School | . | | Seekonk High School | . | | Shepherd Hill Regional High School | . | | Sutton Memorial High School | . | | Tantasqua High School | . | | Tri-County Regional Vocational Technical High School | . | | Wahconah Regional High School | . | |

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| |  |  | | --- | --- | | **African American / Black Female** | | | ***School Name*** | ***Percentage point change*** | | Ayer Shirley Regional High School | 62.50 | | Fitchburg High School | 24.23 | | Chicopee High School | 16.67 | | Joseph P. Keefe Regional Technical School | 14.29 | | Nantucket High School | 13.33 | | Holyoke High School | 10.44 | | Boston Green Academy | 10.09 | | Melrose High School | 9.81 | | Roger L. Putnam Vocational Technical Academy | 9.25 | | Jeremiah E. Burke High School | 6.74 | | Pittsfield High School | 5.09 | | Somerville High School | 3.69 | | Taconic High School | 3.47 | | Charlestown High School | 3.05 | | Avon Middle-High School | 3.01 | | New Bedford High School | 1.55 | | Wareham High School | 1.24 | | TechBoston Academy | 1.08 | | Excel High School | 0.80 | | Barnstable High School | 0.00 | | Chicopee Comprehensive High School | 0.00 | | Westfield High School | 0.00 | | West Roxbury Academy | -5.55 | | Urban Science Academy | -11.77 | | Auburn High School | . | | Bartlett Junior Senior High School | . | | Bay Path Regional Vocational Technical High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | Claremont Academy | . | | David Prouty High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Gardner High School | . | | Grafton High School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | Ludlow High School | . | | Millbury Memorial Junior/Senior High School | . | | Nashoba Valley Technical High School | . | | North Brookfield High School | . | | Oxford High School | . | | Pathfinder Regional Vocational Technical High School | . | | Saugus High School | . | | Seekonk High School | . | | Shepherd Hill Regional High School | . | | Sutton Memorial High School | . | | Tantasqua High School | . | | Tri-County Regional Vocational Technical High School | . | | Wahconah Regional High School | . | | Whitman-Hanson Regional High School | . | |

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| |  |  | | --- | --- | | **Hispanic/Latino Male** | | | ***School Name*** | ***Percentage point change*** | | Saugus High School | 16.67 | | Ayer Shirley Regional High School | 15.00 | | Shepherd Hill Regional High School | 13.89 | | Bartlett Junior Senior High School | 10.26 | | Nashoba Valley Technical High School | 8.70 | | Ludlow High School | 7.32 | | Jeremiah E. Burke High School | 6.94 | | Westfield High School | 6.35 | | Taconic High School | 6.18 | | Roger L. Putnam Vocational Technical Academy | 5.96 | | Excel High School | 5.42 | | Gardner High School | 5.41 | | Auburn High School | 5.26 | | Joseph P. Keefe Regional Technical School | 3.91 | | Fitchburg High School | 3.79 | | Tri-County Regional Vocational Technical High School | 3.70 | | Holyoke High School | 2.72 | | TechBoston Academy | 2.50 | | Nantucket High School | 2.34 | | Chicopee Comprehensive High School | 2.03 | | David Prouty High School | 1.81 | | New Bedford High School | 1.18 | | Chicopee High School | 0.57 | | Somerville High School | 0.07 | | Bay Path Regional Vocational Technical High School | 0.00 | | Blackstone-Millville Regional High School | 0.00 | | Bourne High School | 0.00 | | Pathfinder Regional Vocational Technical High School | 0.00 | | Pittsfield High School | -0.48 | | Charlestown High School | -1.62 | | Claremont Academy | -1.82 | | Wareham High School | -2.50 | | Melrose High School | -2.80 | | Barnstable High School | -2.96 | | West Roxbury Academy | -3.65 | | Boston Green Academy | -4.44 | | Oxford High School | -7.69 | | Tantasqua High School | -7.69 | | Urban Science Academy | -7.76 | | Grafton High School | -9.13 | | Millbury Memorial Junior/Senior High School | -16.67 | | Avon Middle-High School | . | | Carver High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | | Whitman-Hanson Regional High School | . | |

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| |  |  | | --- | --- | | **Hispanic/Latino Female** | | | ***School Name*** | ***Percentage point change*** | | Ayer Shirley Regional High School | 22.50 | | Melrose High School | 21.74 | | Lee Middle and High School | 20.00 | | David Prouty High School | 15.38 | | Fitchburg High School | 14.62 | | Whitman-Hanson Regional High School | 13.33 | | Bartlett Junior Senior High School | 10.54 | | Wareham High School | 10.00 | | Ludlow High School | 9.76 | | Auburn High School | 8.65 | | Jeremiah E. Burke High School | 8.33 | | Chicopee High School | 7.43 | | Taconic High School | 6.90 | | Leicester High School | 6.67 | | Holyoke High School | 6.10 | | Pittsfield High School | 5.77 | | Pathfinder Regional Vocational Technical High School | 5.56 | | Tantasqua High School | 4.62 | | Shepherd Hill Regional High School | 3.99 | | Joseph P. Keefe Regional Technical School | 3.91 | | Roger L. Putnam Vocational Technical Academy | 3.57 | | New Bedford High School | 3.12 | | Bay Path Regional Vocational Technical High School | 3.03 | | Chicopee Comprehensive High School | 2.30 | | Boston Green Academy | 2.22 | | Nashoba Valley Technical High School | -0.41 | | Gardner High School | -0.46 | | Charlestown High School | -0.78 | | Grafton High School | -1.44 | | Tri-County Regional Vocational Technical High School | -1.85 | | Somerville High School | -2.05 | | Oxford High School | -2.14 | | Urban Science Academy | -2.92 | | TechBoston Academy | -2.94 | | Excel High School | -3.63 | | Saugus High School | -3.87 | | Barnstable High School | -5.13 | | West Roxbury Academy | -8.13 | | Nantucket High School | -8.83 | | Claremont Academy | -9.18 | | Westfield High School | -20.32 | | Avon Middle-High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Millbury Memorial Junior/Senior High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | |

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| **Table B.5**  *Percent Point Change in AP Science Exam Taking, Three Years After Intervention* |

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| |  |  | | --- | --- | | **African American / Black Male** | | | ***School Name*** | ***Percentage point change*** | | Melrose High School | 10.81 | | Saugus High School | 10.00 | | Westfield High School | 8.70 | | Claremont Academy | 7.69 | | Fitchburg High School | 5.36 | | Chicopee Comprehensive High School | 4.35 | | New Bedford High School | 4.04 | | Boston Green Academy | 3.66 | | Pittsfield High School | 2.38 | | Taconic High School | 2.38 | | Somerville High School | 1.59 | | TechBoston Academy | 0.86 | | Roger L. Putnam Vocational Technical Academy | 0.85 | | Chicopee High School | 0.00 | | Gardner High School | 0.00 | | Holyoke High School | 0.00 | | Joseph P. Keefe Regional Technical School | 0.00 | | Nantucket High School | 0.00 | | Wareham High School | 0.00 | | Whitman-Hanson Regional High School | 0.00 | | Excel High School | -0.61 | | Barnstable High School | -1.13 | | Jeremiah E. Burke High School | -1.35 | | Charlestown High School | -2.67 | | West Roxbury Academy | -3.30 | | Urban Science Academy | -5.20 | | Avon Middle-High School | -7.32 | | Auburn High School | . | | Ayer Shirley Regional High School | . | | Bartlett Junior Senior High School | . | | Bay Path Regional Vocational Technical High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | David Prouty High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Grafton High School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | Ludlow High School | . | | Millbury Memorial Junior/Senior High School | . | | Nashoba Valley Technical High School | . | | North Brookfield High School | . | | Oxford High School | . | | Pathfinder Regional Vocational Technical High School | . | | Seekonk High School | . | | Shepherd Hill Regional High School | . | | Sutton Memorial High School | . | | Tantasqua High School | . | | Tri-County Regional Vocational Technical High School | . | | Wahconah Regional High School | . | |

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| |  |  | | --- | --- | | **African American / Black Female** | | | ***School Name*** | ***Percentage point change*** | | Ayer Shirley Regional High School | 25.00 | | Chicopee High School | 11.11 | | Holyoke High School | 8.00 | | Joseph P. Keefe Regional Technical School | 7.14 | | Taconic High School | 4.44 | | Melrose High School | 2.70 | | Jeremiah E. Burke High School | 1.85 | | Somerville High School | 1.72 | | TechBoston Academy | 1.31 | | Charlestown High School | 1.30 | | Fitchburg High School | 0.84 | | Nantucket High School | 0.67 | | Excel High School | 0.57 | | Pittsfield High School | 0.11 | | Barnstable High School | 0.00 | | Chicopee Comprehensive High School | 0.00 | | Roger L. Putnam Vocational Technical Academy | 0.00 | | Wareham High School | 0.00 | | Westfield High School | 0.00 | | Boston Green Academy | -0.64 | | New Bedford High School | -1.14 | | Avon Middle-High School | -5.19 | | Urban Science Academy | -5.20 | | West Roxbury Academy | -5.78 | | Auburn High School | . | | Bartlett Junior Senior High School | . | | Bay Path Regional Vocational Technical High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | Claremont Academy | . | | David Prouty High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Gardner High School | . | | Grafton High School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | Ludlow High School | . | | Millbury Memorial Junior/Senior High School | . | | Nashoba Valley Technical High School | . | | North Brookfield High School | . | | Oxford High School | . | | Pathfinder Regional Vocational Technical High School | . | | Saugus High School | . | | Seekonk High School | . | | Shepherd Hill Regional High School | . | | Sutton Memorial High School | . | | Tantasqua High School | . | | Tri-County Regional Vocational Technical High School | . | | Wahconah Regional High School | . | | Whitman-Hanson Regional High School | . | |

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| |  |  | | --- | --- | | **Hispanic/Latino Male** | | | ***School Name*** | ***Percentage point change*** | | Saugus High School | 8.33 | | Ayer Shirley Regional High School | 7.50 | | Westfield High School | 6.35 | | Shepherd Hill Regional High School | 5.56 | | Gardner High School | 5.41 | | Bartlett Junior Senior High School | 5.13 | | Claremont Academy | 5.00 | | Ludlow High School | 4.88 | | Melrose High School | 4.35 | | Taconic High School | 3.45 | | Holyoke High School | 2.73 | | Fitchburg High School | 2.55 | | Joseph P. Keefe Regional Technical School | 2.23 | | Pittsfield High School | 2.08 | | Barnstable High School | 1.39 | | Somerville High School | 1.03 | | Chicopee High School | 0.57 | | Chicopee Comprehensive High School | 0.51 | | Auburn High School | 0.00 | | Bay Path Regional Vocational Technical High School | 0.00 | | Blackstone-Millville Regional High School | 0.00 | | Bourne High School | 0.00 | | Jeremiah E. Burke High School | 0.00 | | Nashoba Valley Technical High School | 0.00 | | Oxford High School | 0.00 | | Pathfinder Regional Vocational Technical High School | 0.00 | | Tri-County Regional Vocational Technical High School | 0.00 | | Excel High School | -0.04 | | Charlestown High School | -0.06 | | New Bedford High School | -0.36 | | Roger L. Putnam Vocational Technical Academy | -0.79 | | Nantucket High School | -1.56 | | West Roxbury Academy | -1.64 | | Wareham High School | -2.50 | | TechBoston Academy | -2.83 | | Boston Green Academy | -4.44 | | Urban Science Academy | -5.68 | | David Prouty High School | -5.88 | | Millbury Memorial Junior/Senior High School | -7.14 | | Tantasqua High School | -7.69 | | Grafton High School | -15.38 | | Avon Middle-High School | . | | Carver High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | | Whitman-Hanson Regional High School | . | |

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| |  |  | | --- | --- | | **Hispanic/Latino Female** | | | ***School Name*** | ***Percentage point change*** | | Melrose High School | 13.04 | | Tantasqua High School | 10.00 | | Bartlett Junior Senior High School | 7.69 | | David Prouty High School | 7.69 | | Fitchburg High School | 7.18 | | Whitman-Hanson Regional High School | 6.67 | | Shepherd Hill Regional High School | 5.56 | | Auburn High School | 5.26 | | Westfield High School | 4.76 | | Pittsfield High School | 4.17 | | Wareham High School | 4.17 | | Urban Science Academy | 2.76 | | Chicopee Comprehensive High School | 2.54 | | Holyoke High School | 2.53 | | Ayer Shirley Regional High School | 2.50 | | Ludlow High School | 2.44 | | Chicopee High School | 2.29 | | Joseph P. Keefe Regional Technical School | 2.23 | | Boston Green Academy | 2.22 | | Jeremiah E. Burke High School | 1.39 | | Roger L. Putnam Vocational Technical Academy | 0.90 | | New Bedford High School | 0.72 | | Charlestown High School | 0.18 | | Bay Path Regional Vocational Technical High School | 0.00 | | Gardner High School | 0.00 | | Lee Middle and High School | 0.00 | | Nantucket High School | 0.00 | | Pathfinder Regional Vocational Technical High School | 0.00 | | Taconic High School | 0.00 | | Tri-County Regional Vocational Technical High School | 0.00 | | Somerville High School | -0.70 | | Excel High School | -1.25 | | Grafton High School | -1.44 | | TechBoston Academy | -1.50 | | Barnstable High School | -2.17 | | West Roxbury Academy | -3.06 | | Saugus High School | -4.46 | | Nashoba Valley Technical High School | -4.76 | | Claremont Academy | -5.35 | | Oxford High School | -7.69 | | Leicester High School | -13.33 | | Avon Middle-High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Millbury Memorial Junior/Senior High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | |

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| **Table B.6**  *Percent Point Change in Any (ELA, Math, or Science) AP Exam Passing, One Year After Intervention* |

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| |  |  | | --- | --- | | **African American / Black Male** | | | ***School Name*** | ***Percentage point change*** | | Ludlow High School | 16.67 | | Chicopee Comprehensive High School | 12.50 | | Melrose High School | 7.41 | | Saugus High School | 5.00 | | Fitchburg High School | 1.89 | | New Bedford High School | 1.03 | | Excel High School | 0.90 | | Urban Science Academy | 0.74 | | Chicopee High School | 0.37 | | Jeremiah E. Burke High School | 0.06 | | Ayer Shirley Regional High School | 0.00 | | Bartlett Junior Senior High School | 0.00 | | Boston Green Academy | 0.00 | | Charlestown High School | 0.00 | | Claremont Academy | 0.00 | | Holyoke High School | 0.00 | | Joseph Case High School | 0.00 | | Joseph P. Keefe Regional Technical School | 0.00 | | Nantucket High School | 0.00 | | Pittsfield High School | 0.00 | | Roger L. Putnam Vocational Technical Academy | 0.00 | | Somerville High School | 0.00 | | Taconic High School | 0.00 | | Wareham High School | 0.00 | | West Roxbury Academy | 0.00 | | Westfield High School | 0.00 | | Whitman-Hanson Regional High School | 0.00 | | TechBoston Academy | -0.81 | | Avon Middle-High School | -2.44 | | Barnstable High School | -2.86 | | Auburn High School | . | | Bay Path Regional Vocational Technical High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | David Prouty High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Gardner High School | . | | Grafton High School | . | | Granby Junior-Senior High School | . | | Lee Middle and High School | . | | Leicester High School | . | | Millbury Memorial Junior/Senior High School | . | | Nashoba Valley Technical High School | . | | North Brookfield High School | . | | Oxford High School | . | | Pathfinder Regional Vocational Technical High School | . | | Seekonk High School | . | | Shepherd Hill Regional High School | . | | Sutton Memorial High School | . | | Tantasqua High School | . | | Tri-County Regional Vocational Technical High School | . | | Wahconah Regional High School | . | | |
| |  |  | | --- | --- | | **African American / Black Female** | | | ***School Name*** | ***Percentage point change*** | | Nantucket High School | 8.57 | | Chicopee High School | 7.69 | | Avon Middle-High School | 3.90 | | Taconic High School | 2.62 | | Melrose High School | 2.22 | | Excel High School | 2.04 | | Boston Green Academy | 1.27 | | Jeremiah E. Burke High School | 1.09 | | TechBoston Academy | 0.83 | | Somerville High School | 0.27 | | Ayer Shirley Regional High School | 0.00 | | Barnstable High School | 0.00 | | Bartlett Junior Senior High School | 0.00 | | Chicopee Comprehensive High School | 0.00 | | Joseph P. Keefe Regional Technical School | 0.00 | | West Roxbury Academy | 0.00 | | Charlestown High School | -0.61 | | Roger L. Putnam Vocational Technical Academy | -0.71 | | Urban Science Academy | -1.09 | | New Bedford High School | -1.13 | | Pittsfield High School | -1.75 | | Fitchburg High School | -2.17 | | Wareham High School | -2.78 | | Holyoke High School | -3.70 | | Whitman-Hanson Regional High School | -9.09 | | Auburn High School | . | | Bay Path Regional Vocational Technical High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | Claremont Academy | . | | David Prouty High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Gardner High School | . | | Grafton High School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | Ludlow High School | . | | Millbury Memorial Junior/Senior High School | . | | Nashoba Valley Technical High School | . | | North Brookfield High School | . | | Oxford High School | . | | Pathfinder Regional Vocational Technical High School | . | | Saugus High School | . | | Seekonk High School | . | | Shepherd Hill Regional High School | . | | Sutton Memorial High School | . | | Tantasqua High School | . | | Tri-County Regional Vocational Technical High School | . | | Wahconah Regional High School | . | | Westfield High School | . | |

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| |  |  | | --- | --- | | **Hispanic/Latino Male** | | | ***School Name*** | ***Percentage point change*** | | Tantasqua High School | 9.95 | | Auburn High School | 7.14 | | Pathfinder Regional Vocational Technical High School | 6.25 | | Nashoba Valley Technical High School | 4.00 | | Westfield High School | 3.85 | | Jeremiah E. Burke High School | 3.23 | | Saugus High School | 3.03 | | Gardner High School | 2.94 | | Taconic High School | 2.73 | | David Prouty High School | 2.45 | | Chicopee High School | 1.70 | | Holyoke High School | 0.66 | | Chicopee Comprehensive High School | 0.61 | | Charlestown High School | 0.57 | | Fitchburg High School | 0.45 | | Roger L. Putnam Vocational Technical Academy | 0.27 | | Bartlett Junior Senior High School | 0.00 | | Bay Path Regional Vocational Technical High School | 0.00 | | Boston Green Academy | 0.00 | | Bourne High School | 0.00 | | Excel High School | 0.00 | | Joseph P. Keefe Regional Technical School | 0.00 | | Ludlow High School | 0.00 | | Melrose High School | 0.00 | | Pittsfield High School | 0.00 | | Shepherd Hill Regional High School | 0.00 | | Tri-County Regional Vocational Technical High School | 0.00 | | Urban Science Academy | 0.00 | | Wareham High School | 0.00 | | West Roxbury Academy | 0.00 | | New Bedford High School | -0.27 | | Somerville High School | -0.69 | | Barnstable High School | -0.90 | | Claremont Academy | -1.47 | | TechBoston Academy | -2.72 | | Nantucket High School | -2.86 | | Millbury Memorial Junior/Senior High School | -7.62 | | Oxford High School | -7.69 | | Grafton High School | -8.24 | | Ayer Shirley Regional High School | -10.00 | | Avon Middle-High School | . | | Blackstone-Millville Regional High School | . | | Carver High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | | Whitman-Hanson Regional High School | . | |

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| |  |  | | --- | --- | | **Hispanic/Latino Female** | | | ***School Name*** | ***Percentage point change*** | | Leicester High School | 17.86 | | Whitman-Hanson Regional High School | 11.11 | | Drury High School | 9.09 | | Tri-County Regional Vocational Technical High School | 7.69 | | Tantasqua High School | 6.67 | | Gardner High School | 4.00 | | Saugus High School | 3.03 | | Ludlow High School | 3.03 | | Joseph P. Keefe Regional Technical School | 1.20 | | Somerville High School | 1.12 | | Holyoke High School | 0.96 | | Roger L. Putnam Vocational Technical Academy | 0.89 | | Barnstable High School | 0.75 | | Chicopee High School | 0.51 | | Auburn High School | 0.00 | | Bay Path Regional Vocational Technical High School | 0.00 | | Boston Green Academy | 0.00 | | David Prouty High School | 0.00 | | Excel High School | 0.00 | | Jeremiah E. Burke High School | 0.00 | | Lee Middle and High School | 0.00 | | Melrose High School | 0.00 | | Nashoba Valley Technical High School | 0.00 | | Oxford High School | 0.00 | | Pathfinder Regional Vocational Technical High School | 0.00 | | Pittsfield High School | 0.00 | | Taconic High School | 0.00 | | Urban Science Academy | 0.00 | | Wareham High School | 0.00 | | West Roxbury Academy | 0.00 | | Fitchburg High School | -0.10 | | New Bedford High School | -0.35 | | Chicopee Comprehensive High School | -0.74 | | Charlestown High School | -0.80 | | Shepherd Hill Regional High School | -1.12 | | Claremont Academy | -1.22 | | Bartlett Junior Senior High School | -3.70 | | TechBoston Academy | -4.65 | | Grafton High School | -7.69 | | Ayer Shirley Regional High School | -8.50 | | Nantucket High School | -9.96 | | Westfield High School | -26.02 | | Avon Middle-High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Millbury Memorial Junior/Senior High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | |

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| **Table B.7**  *Percent Point Change in AP Science Exam Passing, One Year After Intervention* |

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| **African American / Black Male** | |
| ***School Name*** | ***Percentage point change*** |
| Chicopee Comprehensive High School | 12.50 |
| Ludlow High School | 8.33 |
| Saugus High School | 5.00 |
| New Bedford High School | 1.03 |
| TechBoston Academy | 0.96 |
| Excel High School | 0.90 |
| Fitchburg High School | 0.03 |
| Jeremiah E. Burke High School | 0.03 |
| Ayer Shirley Regional High School | 0.00 |
| Bartlett Junior Senior High School | 0.00 |
| Boston Green Academy | 0.00 |
| Charlestown High School | 0.00 |
| Chicopee High School | 0.00 |
| Claremont Academy | 0.00 |
| Holyoke High School | 0.00 |
| Joseph Case High School | 0.00 |
| Joseph P. Keefe Regional Technical School | 0.00 |
| Melrose High School | 0.00 |
| Nantucket High School | 0.00 |
| Pittsfield High School | 0.00 |
| Roger L. Putnam Vocational Technical Academy | 0.00 |
| Somerville High School | 0.00 |
| Taconic High School | 0.00 |
| Urban Science Academy | 0.00 |
| Wareham High School | 0.00 |
| West Roxbury Academy | 0.00 |
| Westfield High School | 0.00 |
| Whitman-Hanson Regional High School | 0.00 |
| Avon Middle-High School | -2.44 |
| Barnstable High School | -2.86 |
| Auburn High School | . |
| Bay Path Regional Vocational Technical High School | . |
| Blackstone-Millville Regional High School | . |
| Bourne High School | . |
| Carver High School | . |
| David Prouty High School | . |
| Drury High School | . |
| East Bridgewater High School | . |
| Franklin County Technical School | . |
| Gardner High School | . |
| Grafton High School | . |
| Granby Junior-Senior High School | . |
| Lee Middle and High School | . |
| Leicester High School | . |
| Millbury Memorial Junior/Senior High School | . |
| Nashoba Valley Technical High School | . |
| North Brookfield High School | . |
| Oxford High School | . |
| Pathfinder Regional Vocational Technical High School | . |
| Seekonk High School | . |
| Shepherd Hill Regional High School | . |
| Sutton Memorial High School | . |
| Tantasqua High School | . |
| Tri-County Regional Vocational Technical High School | . |
| Wahconah Regional High School | . |

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| |  |  | | --- | --- | | **African American / Black Female** | | | ***School Name*** | ***Percentage point change*** | | Taconic High School | 2.50 | | Melrose High School | 2.22 | | Excel High School | 1.02 | | TechBoston Academy | 0.45 | | New Bedford High School | 0.02 | | Ayer Shirley Regional High School | 0.00 | | Barnstable High School | 0.00 | | Bartlett Junior Senior High School | 0.00 | | Boston Green Academy | 0.00 | | Chicopee Comprehensive High School | 0.00 | | Chicopee High School | 0.00 | | Holyoke High School | 0.00 | | Jeremiah E. Burke High School | 0.00 | | Joseph P. Keefe Regional Technical School | 0.00 | | Nantucket High School | 0.00 | | Roger L. Putnam Vocational Technical Academy | 0.00 | | Urban Science Academy | 0.00 | | Wareham High School | 0.00 | | West Roxbury Academy | 0.00 | | Avon Middle-High School | -0.18 | | Charlestown High School | -0.61 | | Somerville High School | -1.07 | | Pittsfield High School | -1.79 | | Fitchburg High School | -2.17 | | Whitman-Hanson Regional High School | -9.09 | | Auburn High School | . | | Bay Path Regional Vocational Technical High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | Claremont Academy | . | | David Prouty High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Gardner High School | . | | Grafton High School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | Ludlow High School | . | | Millbury Memorial Junior/Senior High School | . | | Nashoba Valley Technical High School | . | | North Brookfield High School | . | | Oxford High School | . | | Pathfinder Regional Vocational Technical High School | . | | Saugus High School | . | | Seekonk High School | . | | Shepherd Hill Regional High School | . | | Sutton Memorial High School | . | | Tantasqua High School | . | | Tri-County Regional Vocational Technical High School | . | | Wahconah Regional High School | . | | Westfield High School | . | |

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| |  |  | | --- | --- | | **Hispanic/Latino Male** | | | ***School Name*** | ***Percentage point change*** | | Auburn High School | 7.14 | | Taconic High School | 6.90 | | Tantasqua High School | 4.07 | | Barnstable High School | 3.45 | | Saugus High School | 3.03 | | Gardner High School | 2.94 | | David Prouty High School | 2.45 | | Westfield High School | 1.28 | | Fitchburg High School | 0.91 | | Charlestown High School | 0.57 | | Chicopee High School | 0.57 | | TechBoston Academy | 0.06 | | Holyoke High School | 0.01 | | Ayer Shirley Regional High School | 0.00 | | Bartlett Junior Senior High School | 0.00 | | Bay Path Regional Vocational Technical High School | 0.00 | | Boston Green Academy | 0.00 | | Bourne High School | 0.00 | | Chicopee Comprehensive High School | 0.00 | | Claremont Academy | 0.00 | | Excel High School | 0.00 | | Jeremiah E. Burke High School | 0.00 | | Joseph P. Keefe Regional Technical School | 0.00 | | Ludlow High School | 0.00 | | Melrose High School | 0.00 | | Nashoba Valley Technical High School | 0.00 | | Oxford High School | 0.00 | | Pathfinder Regional Vocational Technical High School | 0.00 | | Pittsfield High School | 0.00 | | Roger L. Putnam Vocational Technical Academy | 0.00 | | Shepherd Hill Regional High School | 0.00 | | Tri-County Regional Vocational Technical High School | 0.00 | | Urban Science Academy | 0.00 | | Wareham High School | 0.00 | | West Roxbury Academy | 0.00 | | New Bedford High School | -0.27 | | Somerville High School | -0.70 | | Nantucket High School | -2.86 | | Millbury Memorial Junior/Senior High School | -7.14 | | Grafton High School | -7.69 | | Avon Middle-High School | . | | Blackstone-Millville Regional High School | . | | Carver High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | | Whitman-Hanson Regional High School | . | |

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| |  |  | | --- | --- | | **Hispanic/Latino Female** | | | ***School Name*** | ***Percentage point change*** | | Whitman-Hanson Regional High School | 11.11 | | Leicester High School | 9.52 | | Saugus High School | 6.67 | | Tantasqua High School | 6.67 | | Ludlow High School | 3.03 | | Nantucket High School | 2.94 | | Chicopee High School | 0.53 | | Fitchburg High School | 0.46 | | Holyoke High School | 0.26 | | Roger L. Putnam Vocational Technical Academy | 0.22 | | Auburn High School | 0.00 | | Bartlett Junior Senior High School | 0.00 | | Bay Path Regional Vocational Technical High School | 0.00 | | Boston Green Academy | 0.00 | | Charlestown High School | 0.00 | | Chicopee Comprehensive High School | 0.00 | | Claremont Academy | 0.00 | | David Prouty High School | 0.00 | | Drury High School | 0.00 | | Excel High School | 0.00 | | Gardner High School | 0.00 | | Jeremiah E. Burke High School | 0.00 | | Joseph P. Keefe Regional Technical School | 0.00 | | Lee Middle and High School | 0.00 | | Melrose High School | 0.00 | | Nashoba Valley Technical High School | 0.00 | | Oxford High School | 0.00 | | Pathfinder Regional Vocational Technical High School | 0.00 | | Pittsfield High School | 0.00 | | Shepherd Hill Regional High School | 0.00 | | Taconic High School | 0.00 | | TechBoston Academy | 0.00 | | Tri-County Regional Vocational Technical High School | 0.00 | | Urban Science Academy | 0.00 | | Wareham High School | 0.00 | | West Roxbury Academy | 0.00 | | Westfield High School | 0.00 | | New Bedford High School | -0.02 | | Somerville High School | -0.03 | | Barnstable High School | -2.38 | | Grafton High School | -7.69 | | Ayer Shirley Regional High School | -8.70 | | Avon Middle-High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Millbury Memorial Junior/Senior High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | |

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**Table B.8**

*Percent Point Change in Any (ELA, Math, or Science) AP Exam Passing, Three Years After Intervention*

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| |  |  | | --- | --- | | **African American / Black Male** | | | ***School Name*** | ***Percentage point change*** | | Melrose High School | 10.81 | | Saugus High School | 5.00 | | Westfield High School | 4.35 | | Nantucket High School | 4.00 | | Somerville High School | 4.00 | | Claremont Academy | 3.85 | | New Bedford High School | 2.90 | | Pittsfield High School | 2.38 | | Roger L. Putnam Vocational Technical Academy | 1.71 | | Boston Green Academy | 1.16 | | Fitchburg High School | 0.88 | | Charlestown High School | 0.60 | | Chicopee Comprehensive High School | 0.00 | | Excel High School | 0.00 | | Gardner High School | 0.00 | | Holyoke High School | 0.00 | | Joseph P. Keefe Regional Technical School | 0.00 | | Taconic High School | 0.00 | | Urban Science Academy | 0.00 | | Wareham High School | 0.00 | | West Roxbury Academy | 0.00 | | Whitman-Hanson Regional High School | 0.00 | | Avon Middle-High School | -0.31 | | Jeremiah E. Burke High School | -0.35 | | TechBoston Academy | -0.63 | | Barnstable High School | -2.86 | | Chicopee High School | -5.88 | | Auburn High School | . | | Ayer Shirley Regional High School | . | | Bartlett Junior Senior High School | . | | Bay Path Regional Vocational Technical High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | David Prouty High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Grafton High School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | Ludlow High School | . | | Millbury Memorial Junior/Senior High School | . | | Nashoba Valley Technical High School | . | | North Brookfield High School | . | | Oxford High School | . | | Pathfinder Regional Vocational Technical High School | . | | Seekonk High School | . | | Shepherd Hill Regional High School | . | | Sutton Memorial High School | . | | Tantasqua High School | . | | Tri-County Regional Vocational Technical High School | . | | Wahconah Regional High School | . | |

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| |  |  | | --- | --- | | **African American / Black Female** | | | ***School Name*** | ***Percentage point change*** | | Ayer Shirley Regional High School | 21.43 | | Chicopee High School | 10.53 | | Fitchburg High School | 8.08 | | Nantucket High School | 7.32 | | Melrose High School | 5.00 | | Taconic High School | 4.60 | | Somerville High School | 3.23 | | Excel High School | 2.56 | | Wareham High School | 2.22 | | Boston Green Academy | 1.30 | | Holyoke High School | 1.06 | | Jeremiah E. Burke High School | 0.57 | | Pittsfield High School | 0.35 | | Avon Middle-High School | 0.34 | | Charlestown High School | 0.29 | | Barnstable High School | 0.00 | | Chicopee Comprehensive High School | 0.00 | | Joseph P. Keefe Regional Technical School | 0.00 | | West Roxbury Academy | 0.00 | | Westfield High School | 0.00 | | Roger L. Putnam Vocational Technical Academy | -0.10 | | TechBoston Academy | -0.34 | | Urban Science Academy | -1.09 | | New Bedford High School | -2.34 | | Auburn High School | . | | Bartlett Junior Senior High School | . | | Bay Path Regional Vocational Technical High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | Claremont Academy | . | | David Prouty High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Gardner High School | . | | Grafton High School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | Ludlow High School | . | | Millbury Memorial Junior/Senior High School | . | | Nashoba Valley Technical High School | . | | North Brookfield High School | . | | Oxford High School | . | | Pathfinder Regional Vocational Technical High School | . | | Saugus High School | . | | Seekonk High School | . | | Shepherd Hill Regional High School | . | | Sutton Memorial High School | . | | Tantasqua High School | . | | Tri-County Regional Vocational Technical High School | . | | Wahconah Regional High School | . | | Whitman-Hanson Regional High School | . | |

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| |  |  | | --- | --- | | **Hispanic/Latino Male** | | | ***School Name*** | ***Percentage point change*** | | Ayer Shirley Regional High School | 15.00 | | Shepherd Hill Regional High School | 8.33 | | Saugus High School | 6.25 | | Auburn High School | 5.26 | | Melrose High School | 4.35 | | Nashoba Valley Technical High School | 4.35 | | Gardner High School | 2.70 | | Bartlett Junior Senior High School | 2.56 | | Ludlow High School | 2.44 | | Excel High School | 2.20 | | Joseph P. Keefe Regional Technical School | 1.68 | | Westfield High School | 1.59 | | Fitchburg High School | 1.36 | | Chicopee High School | 1.14 | | Somerville High School | 0.74 | | Roger L. Putnam Vocational Technical Academy | 0.68 | | Chicopee Comprehensive High School | 0.51 | | Charlestown High School | 0.42 | | New Bedford High School | 0.13 | | Bay Path Regional Vocational Technical High School | 0.00 | | Blackstone-Millville Regional High School | 0.00 | | Boston Green Academy | 0.00 | | Bourne High School | 0.00 | | Jeremiah E. Burke High School | 0.00 | | Pathfinder Regional Vocational Technical High School | 0.00 | | Pittsfield High School | 0.00 | | Tri-County Regional Vocational Technical High School | 0.00 | | Urban Science Academy | 0.00 | | Wareham High School | 0.00 | | West Roxbury Academy | 0.00 | | Holyoke High School | -0.01 | | Claremont Academy | -1.47 | | TechBoston Academy | -1.50 | | Nantucket High School | -1.56 | | Taconic High School | -4.17 | | Barnstable High School | -4.35 | | David Prouty High School | -5.88 | | Oxford High School | -7.69 | | Tantasqua High School | -7.69 | | Grafton High School | -9.13 | | Millbury Memorial Junior/Senior High School | -14.29 | | Avon Middle-High School | . | | Carver High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | | Whitman-Hanson Regional High School | . | |

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| |  |  | | --- | --- | | **Hispanic/Latino Female** | | | ***School Name*** | ***Percentage point change*** | | Melrose High School | 13.64 | | Auburn High School | 10.53 | | Gardner High School | 10.53 | | Lee Middle and High School | 9.09 | | Whitman-Hanson Regional High School | 9.09 | | David Prouty High School | 7.69 | | Ludlow High School | 7.69 | | Wareham High School | 5.26 | | Chicopee High School | 3.83 | | Holyoke High School | 3.05 | | Fitchburg High School | 2.36 | | Saugus High School | 2.25 | | Jeremiah E. Burke High School | 1.89 | | Roger L. Putnam Vocational Technical Academy | 0.96 | | New Bedford High School | 0.76 | | Ayer Shirley Regional High School | 0.59 | | Bay Path Regional Vocational Technical High School | 0.00 | | Boston Green Academy | 0.00 | | Excel High School | 0.00 | | Grafton High School | 0.00 | | Joseph P. Keefe Regional Technical School | 0.00 | | Nashoba Valley Technical High School | 0.00 | | Oxford High School | 0.00 | | Pathfinder Regional Vocational Technical High School | 0.00 | | Pittsfield High School | 0.00 | | Taconic High School | 0.00 | | Tantasqua High School | 0.00 | | Urban Science Academy | 0.00 | | West Roxbury Academy | 0.00 | | Charlestown High School | -0.14 | | Chicopee Comprehensive High School | -0.19 | | Somerville High School | -0.28 | | Bartlett Junior Senior High School | -0.48 | | Claremont Academy | -1.22 | | Leicester High School | -1.26 | | Shepherd Hill Regional High School | -2.18 | | Tri-County Regional Vocational Technical High School | -3.85 | | TechBoston Academy | -4.65 | | Barnstable High School | -5.45 | | Nantucket High School | -12.90 | | Westfield High School | -27.27 | | Avon Middle-High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Millbury Memorial Junior/Senior High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | |

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| **Table B.9**  *Percent Point Change in AP Science Exam Passing, Three Years After Intervention* |

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| |  |  | | --- | --- | | **African American / Black Male** | | | ***School Name*** | ***Percentage point change*** | | Melrose High School | 5.41 | | Saugus High School | 5.00 | | Westfield High School | 4.35 | | New Bedford High School | 1.45 | | Somerville High School | 1.33 | | Fitchburg High School | 0.88 | | TechBoston Academy | 0.52 | | Boston Green Academy | 0.00 | | Charlestown High School | 0.00 | | Chicopee Comprehensive High School | 0.00 | | Chicopee High School | 0.00 | | Claremont Academy | 0.00 | | Excel High School | 0.00 | | Gardner High School | 0.00 | | Holyoke High School | 0.00 | | Joseph P. Keefe Regional Technical School | 0.00 | | Nantucket High School | 0.00 | | Pittsfield High School | 0.00 | | Roger L. Putnam Vocational Technical Academy | 0.00 | | Taconic High School | 0.00 | | Urban Science Academy | 0.00 | | Wareham High School | 0.00 | | West Roxbury Academy | 0.00 | | Whitman-Hanson Regional High School | 0.00 | | Jeremiah E. Burke High School | -0.42 | | Avon Middle-High School | -2.44 | | Barnstable High School | -2.86 | | Auburn High School | . | | Ayer Shirley Regional High School | . | | Bartlett Junior Senior High School | . | | Bay Path Regional Vocational Technical High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | David Prouty High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Grafton High School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | Ludlow High School | . | | Millbury Memorial Junior/Senior High School | . | | Nashoba Valley Technical High School | . | | North Brookfield High School | . | | Oxford High School | . | | Pathfinder Regional Vocational Technical High School | . | | Seekonk High School | . | | Shepherd Hill Regional High School | . | | Sutton Memorial High School | . | | Tantasqua High School | . | | Tri-County Regional Vocational Technical High School | . | | Wahconah Regional High School | . | |

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| |  |  | | --- | --- | | **African American / Black Female** | | | ***School Name*** | ***Percentage point change*** | | Chicopee High School | 10.53 | | Ayer Shirley Regional High School | 7.14 | | Taconic High School | 4.65 | | Fitchburg High School | 2.95 | | Melrose High School | 2.50 | | Nantucket High School | 2.44 | | Boston Green Academy | 1.30 | | Excel High School | 1.28 | | TechBoston Academy | 0.04 | | Barnstable High School | 0.00 | | Chicopee Comprehensive High School | 0.00 | | Holyoke High School | 0.00 | | Jeremiah E. Burke High School | 0.00 | | Joseph P. Keefe Regional Technical School | 0.00 | | Roger L. Putnam Vocational Technical Academy | 0.00 | | Urban Science Academy | 0.00 | | Wareham High School | 0.00 | | West Roxbury Academy | 0.00 | | Westfield High School | 0.00 | | New Bedford High School | -0.58 | | Charlestown High School | -0.61 | | Somerville High School | -1.16 | | Pittsfield High School | -1.79 | | Avon Middle-High School | -2.22 | | Auburn High School | . | | Bartlett Junior Senior High School | . | | Bay Path Regional Vocational Technical High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | Claremont Academy | . | | David Prouty High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Gardner High School | . | | Grafton High School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | Ludlow High School | . | | Millbury Memorial Junior/Senior High School | . | | Nashoba Valley Technical High School | . | | North Brookfield High School | . | | Oxford High School | . | | Pathfinder Regional Vocational Technical High School | . | | Saugus High School | . | | Seekonk High School | . | | Shepherd Hill Regional High School | . | | Sutton Memorial High School | . | | Tantasqua High School | . | | Tri-County Regional Vocational Technical High School | . | | Wahconah Regional High School | . | | Whitman-Hanson Regional High School | . | |

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| |  |  | | --- | --- | | **Hispanic/Latino Male** | | | ***School Name*** | ***Percentage point change*** | | Ayer Shirley Regional High School | 6.25 | | Shepherd Hill Regional High School | 5.56 | | Melrose High School | 4.35 | | Saugus High School | 4.17 | | Gardner High School | 2.70 | | Ludlow High School | 2.44 | | Westfield High School | 1.59 | | Fitchburg High School | 1.09 | | Chicopee High School | 0.57 | | Joseph P. Keefe Regional Technical School | 0.56 | | Chicopee Comprehensive High School | 0.51 | | Charlestown High School | 0.42 | | Roger L. Putnam Vocational Technical Academy | 0.23 | | New Bedford High School | 0.13 | | Auburn High School | 0.00 | | Barnstable High School | 0.00 | | Bartlett Junior Senior High School | 0.00 | | Bay Path Regional Vocational Technical High School | 0.00 | | Blackstone-Millville Regional High School | 0.00 | | Boston Green Academy | 0.00 | | Bourne High School | 0.00 | | Claremont Academy | 0.00 | | Excel High School | 0.00 | | Jeremiah E. Burke High School | 0.00 | | Nashoba Valley Technical High School | 0.00 | | Oxford High School | 0.00 | | Pathfinder Regional Vocational Technical High School | 0.00 | | Pittsfield High School | 0.00 | | Taconic High School | 0.00 | | Tri-County Regional Vocational Technical High School | 0.00 | | Urban Science Academy | 0.00 | | Wareham High School | 0.00 | | West Roxbury Academy | 0.00 | | Holyoke High School | -0.22 | | Somerville High School | -0.77 | | TechBoston Academy | -1.39 | | Nantucket High School | -1.56 | | David Prouty High School | -5.88 | | Millbury Memorial Junior/Senior High School | -7.14 | | Grafton High School | -7.69 | | Tantasqua High School | -7.69 | | Avon Middle-High School | . | | Carver High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Lee Middle and High School | . | | Leicester High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | | Whitman-Hanson Regional High School | . | |

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| |  |  | | --- | --- | | **Hispanic/Latino Female** | | | ***School Name*** | ***Percentage point change*** | | Melrose High School | 9.09 | | David Prouty High School | 7.69 | | Tantasqua High School | 6.67 | | Ludlow High School | 3.85 | | Bartlett Junior Senior High School | 3.23 | | Fitchburg High School | 1.88 | | Chicopee High School | 1.46 | | Charlestown High School | 0.66 | | Chicopee Comprehensive High School | 0.55 | | Holyoke High School | 0.54 | | Somerville High School | 0.06 | | Auburn High School | 0.00 | | Bay Path Regional Vocational Technical High School | 0.00 | | Boston Green Academy | 0.00 | | Claremont Academy | 0.00 | | Excel High School | 0.00 | | Gardner High School | 0.00 | | Grafton High School | 0.00 | | Jeremiah E. Burke High School | 0.00 | | Joseph P. Keefe Regional Technical School | 0.00 | | Lee Middle and High School | 0.00 | | Nantucket High School | 0.00 | | Nashoba Valley Technical High School | 0.00 | | Oxford High School | 0.00 | | Pathfinder Regional Vocational Technical High School | 0.00 | | Pittsfield High School | 0.00 | | Roger L. Putnam Vocational Technical Academy | 0.00 | | Saugus High School | 0.00 | | Shepherd Hill Regional High School | 0.00 | | Taconic High School | 0.00 | | TechBoston Academy | 0.00 | | Tri-County Regional Vocational Technical High School | 0.00 | | Urban Science Academy | 0.00 | | Wareham High School | 0.00 | | West Roxbury Academy | 0.00 | | Westfield High School | 0.00 | | Whitman-Hanson Regional High School | 0.00 | | New Bedford High School | -0.32 | | Leicester High School | -1.26 | | Barnstable High School | -2.38 | | Ayer Shirley Regional High School | -8.70 | | Avon Middle-High School | . | | Blackstone-Millville Regional High School | . | | Bourne High School | . | | Carver High School | . | | Drury High School | . | | East Bridgewater High School | . | | Franklin County Technical School | . | | Granby Junior-Senior High School | . | | Joseph Case High School | . | | Millbury Memorial Junior/Senior High School | . | | North Brookfield High School | . | | Seekonk High School | . | | Sutton Memorial High School | . | | Wahconah Regional High School | . | |

## Appendix C: Assessing changes in Any (ELA, math, or science) AP course or AP science course taking or passing and Any (ELA, math, or science) AP exam or AP science exam taking or passing for priority student groups—Scatterplots

Appendix C contains scatterplots to assess changes in AP course taking and passing and AP exam taking and passing for Any (ELA, math, or science) AP course/exam and AP science course/exam for priority student groups.

There is one figure for each of AP course taking, AP course passing, AP exam taking, AP exam passing by each student group of interest (African American / Black males, African American / Black females, Hispanic/Latino males, Hispanic/Latino Females) and for six characteristics (school size; urban, suburban, or rural; percent takers/passers before intervention,; percent of teachers who attended at least one APSI; percent of teachers who attended at least one APSI and were retained; and, percent of AP teachers who are teachers of color. Each figure contains panels for outcomes in for Any (ELA, math, or science) and AP science, one year (for some characteristics) and three years after intervention.

[Table C.1. School key](#TableC1)

Figures C.2 African American / Black Males—AP Course Taking

1. School Size

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

2. Urban, Suburban, or Rural

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

3. Percent Takers Before Intervention

1. Any (ELA, math, or science)—1 year
2. AP science—1 year
3. Any (ELA, math, or science)—3 years
4. AP science—3 years

4. Percent of Teachers Attending One or More APSI

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

5. Percent of Teachers Attending One or More APSI and Retained

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

6. Percent of Teachers Who Are Teachers of Color

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

Figures C.3. African American / Black Males—AP Course Passing

1. School Size

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

2. Urban, Suburban, or Rural

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

3. Percent Passers Before Intervention

1. Any (ELA, math, or science)—1 year
2. AP science—1 year
3. Any (ELA, math, or science)—3 years
4. AP science—3 years

4. Percent of Teachers Attending One or More APSI

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

5. Percent of Teachers Attending One or More APSI and Retained

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

6. Percent of Teachers Who Are Teachers of Color

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

Figures C.4. African American / Black Females—AP Course Taking

1. School Size

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

2. Urban, Suburban, or Rural

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

3. Percent Takers Before Intervention

1. Any (ELA, math, or science)—1 year
2. AP science—1 year
3. Any (ELA, math, or science)—3 years
4. AP science—3 years

4. Percent of Teachers Attending One or More APSI

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

5. Percent of Teachers Attending One or More APSI and Retained

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

6. Percent of Teachers Who Are Teachers of Color

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

Figures C.5. African American / Black Females—AP Course Passing

1. School Size

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

2. Urban, Suburban, or Rural

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

3. Percent Passers Before Intervention

1. Any (ELA, math, or science)—1 year
2. AP science—1 year
3. Any (ELA, math, or science)—3 years
4. AP science—3 years

4. Percent of Teachers Attending One or More APSI

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

5. Percent of Teachers Attending One or More APSI and Retained

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

6. Percent of Teachers Who Are Teachers of Color

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

Figures C.6. Hispanic/Latino Males—AP Course Taking

1. School Size

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

2. Urban, Suburban, or Rural

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

3. Percent Takers Before Intervention

1. Any (ELA, math, or science)—1 year
2. AP science—1 year
3. Any (ELA, math, or science)—3 years
4. AP science—3 years

4. Percent of Teachers Attending One or More APSI

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

5. Percent of Teachers Attending One or More APSI and Retained

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

6. Percent of Teachers Who Are Teachers of Color

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

Figures C.7. Hispanic/Latino Males—AP Course Passing

1. School Size

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

2. Urban, Suburban, or Rural

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

3. Percent Passers Before Intervention

1. Any (ELA, math, or science)—1 year
2. AP science—1 year
3. Any (ELA, math, or science)—3 years
4. AP science—3 years

4. Percent of Teachers Attending One or More APSI

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

5. Percent of Teachers Attending One or More APSI and Retained

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

6. Percent of Teachers Who Are Teachers of Color

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

Figures C.8. Hispanic/Latino Females—AP Course Taking

1. School Size

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

2. Urban, Suburban, or Rural

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

3. Percent Takers Before Intervention

1. Any (ELA, math, or science)—1 year
2. AP science—1 year
3. Any (ELA, math, or science)—3 years
4. AP science—3 years

4. Percent of Teachers Attending One or More APSI

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

5. Percent of Teachers Attending One or More APSI and Retained

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

6. Percent of Teachers Who Are Teachers of Color

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

Figures C.9. Hispanic/Latino Females—AP Course Passing

1. School Size

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

2. Urban, Suburban, or Rural

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

3. Percent Passers Before Intervention

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

4. Percent of Teachers Attending One or More APSI

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

5. Percent of Teachers Attending One or More APSI and Retained

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

6. Percent of Teachers Who Are Teachers of Color

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

Figures C.10. African American / Black Males—AP Exam Taking

1. School Size

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

2. Urban, Suburban, or Rural

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

3. Percent Takers Before Intervention

1. Any (ELA, math, or science)—1 year
2. AP science—1 year
3. Any (ELA, math, or science)—3 years
4. AP science—3 years

4. Percent of Teachers Attending One or More APSI

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

5. Percent of Teachers Attending One or More APSI and Retained

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

6. Percent of Teachers Who Are Teachers of Color

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

Figures C.11. African American / Black Males—AP Exam Passing

1. School Size

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

2. Urban, Suburban, or Rural

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

3. Percent Passers Before Intervention

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

4. Percent of Teachers Attending One or More APSI

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

5. Percent of Teachers Attending One or More APSI and Retained

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

6. Percent of Teachers Who Are Teachers of Color

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

Figures C.12. African American / Black Females—AP Exam Taking

1. School Size

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

2. Urban, Suburban, or Rural

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

3. Percent Takers Before Intervention

1. Any (ELA, math, or science)—1 year
2. AP science—1 year
3. Any (ELA, math, or science)—3 years
4. AP science—3 years

4. Percent of Teachers Attending One or More APSI

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

5. Percent of Teachers Attending One or More APSI and Retained

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

6. Percent of Teachers Who Are Teachers of Color

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

Figures C.13. African American / Black Females—AP Exam Passing

1. School Size

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

2. Urban, Suburban, or Rural

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

3. Percent Passers Before Intervention

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

4. Percent of Teachers Attending One or More APSI

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

5. Percent of Teachers Attending One or More APSI and Retained

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

6. Percent of Teachers Who Are Teachers of Color

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

Figures C.14. Hispanic/Latino males—AP Exam Taking

1. School Size

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

2. Urban, Suburban, or Rural

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

3. Percent Takers Before Intervention

1. Any (ELA, math, or science)—1 year
2. AP science—1 year
3. Any (ELA, math, or science)—3 years
4. AP science—3 years

4. Percent of Teachers Attending One or More APSI

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

5. Percent of Teachers Attending One or More APSI and Retained

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

6. Percent of Teachers Who Are Teachers of Color

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

Figures C.15. Hispanic/Latino Males—AP Exam Passing

1. School Size

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

2. Urban, Suburban, or Rural

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

3. Percent Passers Before Intervention

1. Any (ELA, math, or science)—1 year
2. AP science—1 year
3. Any (ELA, math, or science)—3 years
4. AP science—3 years

4. Percent of Teachers Attending One or More APSI

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

5. Percent of Teachers Attending One or More APSI and Retained

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

6. Percent of Teachers Who Are Teachers of Color

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

Figures C.16. Hispanic/Latino Females—AP Exam Taking

1. School Size

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

2. Urban, Suburban, or Rural

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

3. Percent Takers Before Intervention

1. Any (ELA, math, or science)—1 year
2. AP science—1 year
3. Any (ELA, math, or science)—3 years
4. AP science—3 years

4. Percent of Teachers Attending One or More APSI

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

5. Percent of Teachers Attending One or More APSI and Retained

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

6. Percent of Teachers Who Are Teachers of Color

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

Figures C.17. Hispanic/Latino Females—AP Exam Passing

1. School Size

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

2. Urban, Suburban, or Rural

A. Any (ELA, math, or science)—1 year

B. AP science—1 year

C. Any (ELA, math, or science)—3 years

D. AP science—3 years

3. Percent Passers Before Intervention

1. Any (ELA, math, or science)—1 year
2. AP science—1 year
3. Any (ELA, math, or science)—3 years
4. AP science—3 years

4. Percent of Teachers Attending One or More APSI

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

5. Percent of Teachers Attending One or More APSI and Retained

1. Any (ELA, math, or science)—3 years
2. AP science—3 years

6. Percent of Teachers Who Are Teachers of Color

A. Any (ELA, math, or science)—3 years

**Table C.1**

*School Key*

| **School Name** | **Number ID** | **School Code** |
| --- | --- | --- |
| Auburn High School | 1 | 00170505 |
| Avon Middle-High School | 2 | 00180510 |
| Ayer Shirley Regional High School | 3 | 06160505 |
| Barnstable High School | 4 | 00200505 |
| Bartlett Junior Senior High School | 5 | 03160505 |
| Bay Path Regional Vocational Technical High School | 6 | 08760605 |
| Blackstone-Millville Regional High School | 7 | 06220505 |
| Boston Green Academy | 8 | 04110305 |
| Bourne High School | 9 | 00360505 |
| Carver High School | 10 | 00520405 |
| Charlestown High School | 11 | 00350515 |
| Chicopee Comprehensive High School | 12 | 00610510 |
| Chicopee High School | 13 | 00610505 |
| Claremont Academy | 14 | 03480350 |
| David Prouty High School | 15 | 07670505 |
| Drury High School | 16 | 02090505 |
| East Bridgewater High School | 17 | 00830505 |
| Excel High School | 18 | 00350522 |
| Fitchburg High School | 19 | 00970505 |
| Franklin County Technical School | 20 | 08180605 |
| Gardner High School | 21 | 01030505 |
| Grafton High School | 22 | 01100505 |
| Granby Junior-Senior High School | 23 | 01110505 |
| Holyoke High School | 24 | 01370505 |
| Jeremiah E. Burke High School | 25 | 00350525 |
| Joseph Case High School | 26 | 02920505 |
| Joseph P. Keefe Regional Technical School | 27 | 08290605 |
| Lee Middle and High School | 28 | 01500505 |
| Leicester High School | 29 | 01510505 |
| Ludlow High School | 30 | 01610505 |
| Melrose High School | 31 | 01780505 |
| Millbury Memorial Junior/Senior High School | 32 | 01860505 |
| Nantucket High School | 33 | 01970505 |
| Nashoba Valley Technical High School | 34 | 08520605 |
| New Bedford High School | 35 | 02010505 |
| North Brookfield High School | 36 | 02150505 |
| Oxford High School | 37 | 02260505 |
| Pathfinder Regional Vocational Technical High School | 38 | 08600605 |
| Pittsfield High School | 39 | 02360505 |
| Roger L. Putnam Vocational Technical Academy | 40 | 02810620 |
| Saugus High School | 41 | 02620505 |
| Seekonk High School | 42 | 02650505 |
| Shepherd Hill Regional High School | 43 | 06580505 |
| Somerville High School | 44 | 02740505 |
| Sutton Memorial High School | 45 | 02900510 |
| Taconic High School | 46 | 02360510 |
| Tantasqua High School | 47 | 07700505 |
| TechBoston Academy | 48 | 00350657 |
| Tri-County Regional Vocational Technical High School | 49 | 08780605 |
| Urban Science Academy | 50 | 00350579 |
| Wahconah Regional High School | 51 | 06350505 |
| Wareham High School | 52 | 03100505 |
| West Roxbury Academy | 53 | 00350658 |
| Westfield High School | 54 | 03250505 |
| Whitman-Hanson Regional High School | 55 | 07800505 |

**Figure C.****2.1**

*African American / Black Male AP Course Taking by School Size*―*One Year After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Course Taking―One Year After Intervention―African American / Black Male, by School Size | B - Change in Percent of AP Science Course Takings―One Year After Intervention―African American / Black Male, by School Size |
| Scatterplot showing percentage point change of any AP course takers on y-axis for African American/Black males and number of students  on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science course takers on y-axis for African American/Black males and number of students  on the x-axis, one year after intervention. |

**Figure C.****2.1**

*African American / Black Male AP Course Taking by School Size*―*Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Course Taking―Three Years After Intervention―African American / Black Male, by School Size | D - Change in Percent of AP Science Course Taking―Three Years After Intervention―African American / Black Male, by School Size |
| Scatterplot showing percentage point change of any AP course takers  on y-axis for African American/Black males and number of students  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course takers  on y-axis for African American/Black males and number of students  on the x-axis, three years after intervention. |

**Figure C****.2.2**

*African American / Black Male AP Course Taking* *by* *Urban, Suburban, or Rural*―*One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Course Taking―One Year After Intervention―African American / Black Male, by Urban, Suburban, or Rural | B – Change in Percent of AP Science Course Taking―One Year After Intervention―African American / Black Male, by Urban, Suburban, or Rural |
| Scatterplot showing percentage point change of any AP course takers  on y-axis for African American/Black males and urban, suburban, or rural  on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science course takers  on y-axis for African American/Black males and urban, suburban, or rural  on the x-axis, one year after intervention. |

**Figure C.****2.2**

*African American / Black Male AP Course Taking by Urban, Suburban, or Rural―Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Course Taking―Three Years After Intervention―African American / Black Male, by Urban, Suburban, or Rural | D – Change in Percent of AP Science Course Taking―Three Years After Intervention―African American / Black Male, by Urban, Suburban, or Rural |
| Scatterplot showing percentage point change of any AP course takers  on y-axis for African American/Black males and urban, suburban, or rural  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course takers  on y-axis for African American/Black males and urban, suburban, or rural  on the x-axis, three years after intervention. |

**Figure C.****2.3**

*African American / Black Male AP Course Taking by Percent Takers Before Intervention*―*One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Course Taking―One Year After Intervention―African American / Black Male, by Percent Takers Before Intervention | B – Change in Percent of AP Science Course Taking―One Year After Intervention―African American / Black Male, by Percent Takers Before Intervention |
| Scatterplot showing percentage point change of any AP course takers  on y-axis for African American/Black males and percent takers before intervention  on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science course takers  on y-axis for African American/Black males and percent takers before intervention  on the x-axis, one year after intervention. |

**Figure C.****2.3**

*African American / Black Male AP Course Taking by* *Percent Takers Before Intervention―Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Course Taking―Three Years After Intervention―African American / Black Male, by Percent Takers Before Intervention | D – Change in Percent of AP Science Course Taking―Three Years After Intervention―African American / Black Male, by Percent Takers Before Intervention |
| Scatterplot showing percentage point change of any AP course takers  on y-axis for African American/Black males and percent takers before intervention  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course takers  on y-axis for African American/Black males and percent takers before intervention  on the x-axis, three years after intervention. |

**Figure C.****2.4**

*African American / Black Male AP Course Taking by* *Percent of Teachers Attending One or More APSI―Three Years After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Course Taking―Three Years After Intervention―African American / Black Male, by Percent of Teachers Attending One or More APSI | B – Change in Percent of AP Science Course Taking―Three Years After Intervention―African American / Black Male, by Percent of Teachers Attending One or More APSI |
| Scatterplot showing percentage point change of any AP course takers  on y-axis for African American/Black males and percent of teachers attending one or more APSI  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course takers  on y-axis for African American/Black males and percent of teachers attending one or more APSI  on the x-axis, three years after intervention. |

**Figure C.****2.5**

*African American / Black Male AP Course Taking* *by Percent of Teachers Attending One or More APSI and Retained*―*Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Course Taking―Three Years After Intervention―African American / Black Male, by Percent of Teachers Attending One or More APSI and Retained | B - Change in Percent of AP Science Course Taking―Three Years After Intervention―African American / Black Male, by Percent of Teachers Attending One or More APSI and Retained |
| Scatterplot showing percentage point change of any AP course takers on Y-axis for African American/Black males and percent of teachers attending one or more APSI and retained on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course takers on Y-axis for African American/Black males and percent of teachers attending one or more APSI and retained on the X-axis, three years after intervention. |

**Figure C.****2.6**

*African American / Black Male AP Course* *Taking by Percent of Teachers Who Are Teachers of Color*―*Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Course Taking―Three Years After Intervention―African American / Black Male, by Percent of Teachers Who Are Teachers of Color | B - Change in Percent of AP Science Course Taking―Three Years After Intervention―African American / Black Male, by Percent of Teachers Who Are Teachers of Color |
| Scatterplot showing percentage point change of any AP course takers on Y-axis for African American/Black males and percent of teachers who are teachers of color on the X-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course takers on Y-axis for African American/Black males and percent of teachers who are teachers of color on the X-axis, three years after intervention. |

**Figure** **C.3.1**

*African American / Black Male AP Course Passing by School Size*―*One Year After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Course Passing―One Year After Intervention―African American / Black Male, by School Size | B - Change in Percent of AP Science Course Passing―One Year After Intervention―African American / Black Male, by School Size |
| Scatterplot showing percentage point change of any AP course passers on y-axis for African American/Black males and number of students  on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science course passers on y-axis for African American/Black males and number of students  on the x-axis, one year after intervention. |

**Figure C.3.1**

*African American / Black Male AP Course Passing by School Size―Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Course Passing―Three Years After Intervention―African American / Black Male, by School Size | D – Change in Percent of AP Science Course Passing―Three Years After Intervention―African American / Black Male, by School Size |
| Scatterplot showing percentage point change of any AP course passers  on y-axis for African American/Black males and number of students  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course passers  on y-axis for African American/Black males and number of students  on the x-axis, three years after intervention. |

**Figure C.3.2**

*African American / Black Male AP Course Passing by Urban, Suburban, or Rural*―*One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Course Passing―One Year After Intervention―African American / Black Male, by Urban, Suburban, or Rural | B – Change in Percent of AP Science Course Passing―One Year After Intervention―African American / Black Male, by Urban, Suburban, or Rural |
| Scatterplot showing percentage point change of any AP course passers  on y-axis for African American/Black males and urban, suburban, or rural  on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science course passers  on y-axis for African American/Black males and urban, suburban, or rural  on the x-axis, one year after intervention. |

**Figure C.3.2**

*African American / Black Male AP Course Passing by Urban, Suburban, or Rural―Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Course Passing―Three Years After Intervention―African American / Black Male, by Urban, Suburban, or Rural | D – Change in Percent of AP Science Course Passing―Three Years After Intervention―African American / Black Male, by Urban, Suburban, or Rural |
| Scatterplot showing percentage point change of any AP course passers  on y-axis for African American/Black males and urban, suburban, or rural  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course passers  on y-axis for African American/Black males and urban, suburban, or rural  on the x-axis, three years after intervention. |

**Figure C.3.3**

*African American / Black Male AP Course Passing by Percent Passers Before Intervention*―*One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Course Passing―One Years After Intervention―African American / Black Male, by Percent Passers Before Intervention | B – Change in Percent of AP Science Course Passing―One Year After Intervention―African American / Black Male, by Percent Passers Before Intervention |
| Scatterplot showing percentage point change of any AP course passers  on y-axis for African American/Black males and percent takers before intervention  on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science course passers  on y-axis for African American/Black males and percent takers before intervention  on the x-axis, one year after intervention. |

**Figure C.****3.3**

*African American / Black Male AP Course Passing by Percent Passers Before Intervention―Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Course Passing―Three Years After Intervention―African American / Black Male, by Percent Passers Before Intervention | D – Change in Percent of AP Science Course Passing―Three Years After Intervention―African American / Black Male, by Percent Passers Before Intervention |
| Scatterplot showing percentage point change of any AP course passers  on y-axis for African American/Black males and percent takers before intervention  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course passers  on y-axis for African American/Black males and percent takers before intervention  on the x-axis, three years after intervention. |

**Figure C.3.4**

*African American / Black Male AP Course Passing by Percent of Teachers Attending One or More APSI―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Course Passing―Three Years After Intervention―African American / Black Male, by Percent of Teachers Attending One or More APSI | B - Change in Percent of AP Science Course Passing―Three Years After Intervention―African American / Black Male, by Percent of Teachers Attending One or More APSI |
| Scatterplot showing percentage point change of any AP course passers  on y-axis for African American/Black males and percent of teachers attending one or more APSI  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course passers  on y-axis for African American/Black males and percent of teachers attending one or more APSI  on the x-axis, three years after intervention. |

**Figure C.3.5**

*African American / Black Male AP Course Passing by Percent of Teachers Attending One or More APSI and Retained―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Course Passing―Three Years After Intervention―African American / Black Male, by Percent of Teachers Attending One or More APSI and Retained | B - Change in Percent of AP Science Course Passing―Three Years After Intervention―African American / Black Male, by Percent of Teachers Attending One or More APSI and Retained |
| Scatterplot showing percentage point change of any AP course passers on Y-axis for African American/Black males and percent of teachers attending one or  more APSI and retained on the X-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course passers on Y-axis for African American/Black males and percent of teachers attending one or more APSI and retained on the X-axis, three years after intervention. |

**Figure C.3.6**

*African American / Black Male AP Course Passing by Percent of Teachers Who Are Teachers of Color―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Course Passing―Three Years After Intervention―African American / Black Male, by Percent of Teachers Who Are Teachers of Color | B - Change in Percent of AP Science Course Passing―Three Years After Intervention―African American / Black Male, by Percent of Teachers Who Are Teachers of Color |
| Scatterplot showing percentage point change of any AP course passers on Y-axis for African American/Black males and percent of teachers who are teachers of color on the X-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course passers on Y-axis for African American/Black males and percent of teachers who are teachers of color on the X-axis, three years after intervention. |

**Figure C.4.1**

*African American / Black Female AP Course Taking by School Size*―*One Year After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Course Taking―One Year After Intervention―African American / Black Female, by School Size | B - Change in Percent of AP Science Course Taking―One Year After Intervention―African American / Black Female, by School Size |
| Scatterplot showing percentage point change of any AP course takers on y-axis for African American/Black females and number of students on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science course takers  on y-axis for African American/Black females and number of students on the x-axis, one year after intervention. |

**Figure C.4.1**

*African American / Black Female AP Course Taking by School Size*―*Three Year After Intervention*

|  |  |
| --- | --- |
| C - Change in Percent of Any (ELA, Math, or Science) AP Course Taking―Three Years After Intervention―African American / Black Female, by School Size | D - Change in Percent of AP Science Course Taking―Three Years After Intervention―African American / Black Female, by School Size |
| Scatterplot showing percentage point change of any AP course takers  on y-axis for African American/Black females and number of students  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course takers  on y-axis for African American/Black females and number of students  on the x-axis, three years after intervention. |

**Figure C.4.2**

*African American / Black Female AP Course Taking by Urban, Suburban, or Rural*―*One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Course Taking―One Year After Intervention―African American / Black Female, by Urban, Suburban, or Rural | B – Change in Percent of AP Science Course Taking―One Year After Intervention―African American / Black Female, by Urban, Suburban, or Rural |
| Scatterplot showing percentage point change of any AP course takers  on y-axis for African American/Black females and urban, suburban, or rural  on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science course takers  on y-axis for African American/Black females and urban, suburban, or rural  on the x-axis, one year after intervention. |

**Figure C.4.2**

*African American / Black Female AP Course Taking by Urban, Suburban, or Rural*―*Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Course Taking―Three Years After Intervention―African American / Black Female, by Urban, Suburban, or Rural | D – Change in Percent of AP Science Course Taking―Three Years After Intervention―African American / Black Female, by Urban, Suburban, or Rural |
| Scatterplot showing percentage point change of any AP course takers  on y-axis for African American/Black females and urban, suburban, or rural  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course takers  on y-axis for African American/Black females and urban, suburban, or rural  on the x-axis, three years after intervention. |

**Figure C.4.3**

*African American / Black Female AP Course Taking by Percent Takers Before Intervention*―*One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Course Taking―One Year After Intervention―African American / Black Female, by Percent Takers Before Intervention | B – Change in Percent of AP Science Course Taking―One Year After Intervention―African American / Black Female, by Percent Takers Before Intervention |
| Scatterplot showing percentage point change of any AP course takers  on y-axis for African American/Black females and percent takers before intervention  on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science course takers  on y-axis for African American/Black females and percent takers before intervention  on the x-axis, one year after intervention. |

**Figure C.4.3**

*African American / Black Female AP Course Taking by Percent Takers Before Intervention*―*Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Course Taking―Three Years After Intervention―African American / Black Female, by Percent Takers Before Intervention | D – Change in Percent of AP Science Course Taking―Three Years After Intervention―African American / Black Female, by Percent Takers Before Intervention |
| Scatterplot showing percentage point change of any AP course takers  on y-axis for African American/Black females and percent takers before intervention  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course takers  on y-axis for African American/Black females and percent takers before intervention  on the x-axis, three years after intervention. |

**Figure C.4.4**

*African American / Black Female AP Course Taking by Percent of Teachers Attending One or More APSI*―*Three Years After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Course Taking―Three Years After Intervention―African American / Black Female, by Percent of Teachers Attending One or More APSI | B – Change in Percent of AP Science Course Taking―Three Years After Intervention―African American / Black Female, by Percent of Teachers Attending One or More APSI |
| Scatterplot showing percentage point change of any AP course takers  on y-axis for African American/Black females and percent of teachers attending one or more APSI and retained  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course takers  on y-axis for African American/Black females and percent of teachers attending one or more APSI and retained  on the x-axis, three years after intervention. |

**Figure C.4.5**

*African American / Black Female AP Course Taking by Percent of Teachers Attending One or More APSI and Retained*―*Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Course Taking―Three Years After Intervention―African American / Black Female, by Percent of Teachers Attending One or More APSI and Retained | B - Change in Percent of AP Science Course Taking―Three Years After Intervention―African American / Black Female, by Percent of Teachers Attending One or More APSI and Retained |
| Scatterplot showing percentage point change of any AP course takers on Y-axis for African American/Black females and percent of teachers attending one or more APSI and retained on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course takers on Y-axis for African American/Black females and percent of teachers attending one or more APSI and retained on the x-axis, three years after intervention. |

**Figure C.4.6**

*African American / Black Female AP Course Taking by Percent of Teachers Who Are Teachers of Color*―*Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Course Taking―Three Years After Intervention―African American / Black Female, by Percent of Teachers Who Are Teachers of Color | B - Change in Percent of AP Science Course Taking―Three Years After Intervention―African American / Black Female, by Percent of Teachers Who Are Teachers of Color |
| Scatterplot showing percentage point change of any AP course takers on Y-axis for African American/Black females and percent of teachers who are teachers of color on the X-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course takers on Y-axis for African American/Black females and percent of teachers who are teachers of color on the X-axis, three years after intervention. |

**Figure C.5.1**

*African American / Black Female AP Course Passing by School Size*―*One Year After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Course Passing―One Year After Intervention―African American / Black Female, by School Size | B -Change in Percent of AP Science Course Passing―One Year After Intervention―African American / Black Female, by School Size |
| Scatterplot showing percentage point change of any AP course passers on y-axis for African American/Black females and number of students on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science course passers on y-axis for African American/Black females and number of students on the x-axis, one year after intervention. |

**Figure C.5.1**

*African American / Black Female AP Course Passing by School Size*―*Three Years After Intervention*

|  |  |
| --- | --- |
| C - Change in Percent of Any (ELA, Math, or Science) AP Course Passing―Three Years After Intervention―African American / Black Female, by School Size | D - Change in Percent of AP Science Course Passing―Three Years After Intervention―African American / Black Female, by School Size |
| Scatterplot showing percentage point change of any AP course passers  on y-axis for African American/Black females and number of students  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course passers  on y-axis for African American/Black females and number of students  on the x-axis, three years after intervention. |

**Figure C.5.2**

*African American / Black Female AP Course Passing by Urban, Suburban, or Rural*―*One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Course Passing―One Year After Intervention―African American / Black Female, by Urban, Suburban, or Rural | B – Change in Percent of AP Science Course Passing―One Year After Intervention―African American / Black Female, by Urban, Suburban, or Rural |
| Scatterplot showing percentage point change of any AP course passers  on y-axis for African American/Black females and urban, suburban, or rural  on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science course passers  on y-axis for African American/Black females and urban, suburban, or rural  on the x-axis, one year after intervention. |

**Figure C.5.2**

*African American / Black Female AP Course Passing by Urban, Suburban, or Rural*―*Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Course Passing―Three Years After Intervention―African American / Black Female, by Urban, Suburban, or Rural | D – Change in Percent of AP Science Course Passing―Three Years After Intervention―African American / Black Female, by Urban, Suburban, or Rural |
| Scatterplot showing percentage point change of any AP course passers  on y-axis for African American/Black females and urban, suburban, or rural  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course passers  on y-axis for African American/Black females and urban, suburban, or rural  on the x-axis, three years after intervention. |

**Figure C.5.3**

*African American / Black Female AP Course Passing by Percent Takers Before Intervention*―*One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Course Passing―One Year After Intervention―African American / Black Female, by Percent Passers Before Intervention | B – Change in Percent of AP Science Course Passing―One Year After Intervention―African American / Black Female, by Percent Passers Before Intervention |
| Scatterplot showing percentage point change of any AP course passers  on y-axis for African American/Black females and percent takers before intervention  on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science course passers  on y-axis for African American/Black females and percent takers before intervention  on the x-axis, one year after intervention. |

**Figure C.5.3**

*African American / Black Female AP Course Passing by Percent Takers Before Intervention*―*Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Course Passing―Three Years After Intervention―African American / Black Female, by Percent Passers Before Intervention | D – Change in Percent of AP Science Course Passing―Three Years After Intervention―African American / Black Female, by Percent Passers Before Intervention |
| Scatterplot showing percentage point change of any AP course passers  on y-axis for African American/Black females and percent takers before intervention  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course passers  on y-axis for African American/Black females and percent takers before intervention  on the x-axis, three years after intervention. |

**Figure C.5.4**

*African American / Black Female AP Course Passing by Percent of Teachers Attending One or More APSI*―*Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Course Passing―Three Years After Intervention―African American / Black Female, by Percent of Teachers Attending One or More APSI | B - Change in Percent of AP Science Course Passing―Three Years After Intervention―African American / Black Female, by Percent of Teachers Attending One or More APSI |
| Scatterplot showing percentage point change of any AP course passers  on y-axis for African American/Black females and percent of teachers attending one or more APSI  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course passers  on y-axis for African American/Black females and percent of teachers attending one or more APSI  on the x-axis, three years after intervention. |

**Figure C.5.5**

*African American / Black Female AP Course Passing by Percent of Teachers Attending One or More APSI and Retained*―*Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Course Passing―Three Years After Intervention―African American / Black Female, by Percent of Teachers Attending One or More APSI and Retained | B - Change in Percent of AP Science Course Passing―Three Years After Intervention―African American / Black Female, by Percent of Teachers Attending One or More APSI and Retained |
| Scatterplot showing percentage point change of any AP course passers on Y-axis for African American/Black females and percent of teachers attending one or more APSI and retained on the X-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course passers on Y-axis for African American/Black females and percent of teachers attending one or more APSI and retained on the X-axis, three years after intervention. |

**Figure C.5.6**

*African American / Black Female AP Course Passing by Percent of Teachers Who Are Teachers of Color*―*Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Course Passing―Three Years After Intervention―African American / Black Female, by Percent of Teachers Who Are Teachers of Color | B - Change in Percent of AP Science Course Passing―Three Years After Intervention―African American / Black Female, by Percent of Teachers Who Are Teachers of Color |
| Scatterplot showing percentage point change of any AP course passers on Y-axis for African American/Black females and percent of teachers who are teachers of color on the X-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course passers on Y-axis for African American/Black females and percent of teachers who are teachers of color on the X-axis, three years after intervention. |

**Figure C.6.1**

*Hispanic/Latino Male AP Course Taking by School Size―One Year After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Course Taking―One Year After Intervention―Hispanic/Latino Male, by School Size | B - Change in Percent of AP Science Course Taking―One Year After Intervention―Hispanic/Latino Male, by School Size |
| Scatterplot showing percentage point change of any AP course takers on y-axis for Hispanic/Latino males and number of students on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science course takers  on y-axis for Hispanic/Latino males and number of students on the x-axis, one year after intervention. |

**Figure C.6.1**

*Hispanic/Latino Male AP Course Taking by School Size―Three Years After Intervention*

|  |  |
| --- | --- |
| C - Change in Percent of Any (ELA, Math, or Science) AP Course Taking―Three Years After Intervention―Hispanic/Latino Male, by School Size | D - Change in Percent of AP Science Course Taking―Three Years After Intervention―Hispanic/Latino Male, by School Size |
| Scatterplot showing percentage point change of any AP course takers  on y-axis for Hispanic/Latino males and number of students  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course takers  on y-axis for Hispanic/Latino males and number of students  on the x-axis, three years after intervention. |

**Figure C.6.2**

*Hispanic/Latino Male AP Course Taking by Urban, Suburban, or Rural―One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Course Taking―One Year After Intervention―Hispanic/Latino Male, by Urban, Suburban, or Rural | B – Change in Percent of AP Science Course Taking―One Year After Intervention―Hispanic/Latino Male, by Urban, Suburban, or Rural |
| Scatterplot showing percentage point change of any AP course takers  on y-axis for Hispanic/Latino males and urban, suburban, or rural  on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science course takers  on y-axis for Hispanic/Latino males and urban, suburban, or rural  on the x-axis, one year after intervention. |

**Figure C.6.2**

*Hispanic/Latino Male AP Course Taking by Urban, Suburban, or Rural―Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Course Taking―Three Years After Intervention―Hispanic/Latino Male, by Urban, Suburban, or Rural | D – Change in Percent of AP Science Course Taking―Three Years After Intervention―Hispanic/Latino Male, by Urban, Suburban, or Rural |
| Scatterplot showing percentage point change of any AP course takers  on y-axis for Hispanic/Latino males and urban, suburban, or rural  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course takers  on y-axis for Hispanic/Latino males and urban, suburban, or rural  on the x-axis, three years after intervention. |

**Figure C.6.3**

*Hispanic/Latino Male AP Course Taking by Percent Takers Before Intervention―One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Course Taking―One Year After Intervention―Hispanic/Latino Male, by Percent Takers Before Intervention | B – Change in Percent of AP Science Course Taking―One Year After Intervention―Hispanic/Latino Male, by Percent Takers Before Intervention |
| Scatterplot showing percentage point change of any AP course takers  on y-axis for Hispanic/Latino males and percent takers before intervention  on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science course takers  on y-axis for Hispanic/Latino males and percent takers before intervention  on the x-axis, one year after intervention. |

**Figure C.6.3**

*Hispanic/Latino Male AP Course Taking by Percent Takers Before Intervention―Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Course Taking―Three Years After Intervention―Hispanic/Latino Male, by Percent Takers Before Intervention | D – Change in Percent of AP Science Course Taking―Three Years After Intervention―Hispanic/Latino Male, by Percent Takers Before Intervention |
| Scatterplot showing percentage point change of any AP course takers  on y-axis for Hispanic/Latino males and percent takers before intervention  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course takers  on y-axis for Hispanic/Latino males and percent takers before intervention  on the x-axis, three years after intervention. |

**Figure C.6.4**

*Hispanic/Latino Male AP Course Taking by Percent of Teachers Attending One or More APSI―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Course Taking―Three Years After Intervention―Hispanic/Latino Male, by Percent of Teachers Attending One or More APSI | B - Change in Percent of AP Science Course Taking―Three Years After Intervention―Hispanic/Latino Male, by Percent of Teachers Attending One or More APSI |
| Scatterplot showing percentage point change of any AP course takers  on y-axis for Hispanic/Latino males and percent of teachers attending one or more APSI  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course takers  on y-axis for Hispanic/Latino males and percent of teachers attending one or more APSI  on the x-axis, three years after intervention. |

**Figure C.6.5**

*Hispanic/Latino Male AP Course Taking by Percent of Teachers Attending One or More APSI and Retained―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Course Taking―Three Years After Intervention―Hispanic/Latino Male, by Percent of Teachers Attending One or More APSI and Retained | B - Change in Percent of AP Science Course Taking―Three Years After Intervention―Hispanic/Latino Male, by Percent of Teachers Attending One or More APSI and Retained |
| Scatterplot showing percentage point change of any AP course takers on Y-axis for Hispanic/Latino males and percent of teachers attending one or more APSI and retained on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course takers on Y-axis for Hispanic/Latino males and percent of teachers attending one or  more APSI and retained on the X-axis, three years after intervention. |

**Figure C.6.6**

*Hispanic/Latino Male AP Course Taking by Percent of Teachers Who Are Teachers of Color―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Course Taking―Three Years After Intervention―Hispanic/Latino Male, by Percent of Teachers Who Are Teachers of Color | B - Change in Percent of AP Science Course Taking―Three Years After Intervention―Hispanic/Latino Male, by Percent of Teachers Who Are Teachers of Color |
| Scatterplot showing percentage point change of any AP course takers on Y-axis for Hispanic/Latino males and percent of teachers who are teachers of color on the X-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course takers on Y-axis for Hispanic/Latino males and percent of teachers who are teachers of color on the X-axis, three years after intervention. |

**Figure C.7.1**

*Hispanic/Latino Male AP Course Passing by School Size―One Year After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Course Passing―One Year After Intervention―Hispanic/Latino Male, by School Size | B - Change in Percent of AP Science Course Passing―One Year After Intervention―Hispanic/Latino Male, by School Size |
| Scatterplot showing percentage point change of any AP course passers on y-axis for Hispanic/Latino males and number of students on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science course passers on y-axis for Hispanic/Latino males and number of students on the x-axis, one year after intervention. |

**Figure C.7.1**

*Hispanic/Latino Male AP Course Passing by School Size―Three Years After Intervention*

|  |  |
| --- | --- |
| C - Change in Percent of Any (ELA, Math, or Science) AP Course Passing―Three Years After Intervention―Hispanic/Latino Male, by School Size | D - Change in Percent of AP Science Course Passing―Three Years After Intervention―Hispanic/Latino Male, by School Size |
| Scatterplot showing percentage point change of any AP course passers  on y-axis for Hispanic/Latino males and number of students  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course passers  on y-axis for Hispanic/Latino males and number of students  on the x-axis, three years after intervention. |

**Figure C.7.2**

*Hispanic/Latino Male AP Course Passing by Urban, Suburban, or Rural―One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Course Passers―One Year After Intervention―Hispanic/Latino Male, by Urban, Suburban, or Rural | B – Change in Percent of AP Science Course Passers―One Year After Intervention―Hispanic/Latino Male, by Urban, Suburban, or Rural |
| Scatterplot showing percentage point change of any AP course passers  on y-axis for Hispanic/Latino males and urban, suburban, or rural  on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science course passers  on y-axis for Hispanic/Latino males and urban, suburban, or rural  on the x-axis, one year after intervention. |

**Figure C.7.2**

*Hispanic/Latino Male AP Course Passing by Urban, Suburban, or Rural―Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Course Passing―Three Years After Intervention―Hispanic/Latino Male, by Urban, Suburban, or Rural | D – Change in Percent of AP Science Course Passing―Three Years After Intervention―Hispanic/Latino Male, by Urban, Suburban, or Rural |
| Scatterplot showing percentage point change of any AP course passers  on y-axis for Hispanic/Latino males and urban, suburban, or rural  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course passers  on y-axis for Hispanic/Latino males and urban, suburban, or rural  on the x-axis, three years after intervention. |

**Figure C.7.3**

*Hispanic/Latino Male AP Course Passing by Percent Takers Before Intervention―One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Course Passers―One Year After Intervention―Hispanic/Latino Male, by Percent Passers Before Intervention | B – Change in Percent of AP Science Course Passers―One Years After Intervention―Hispanic/Latino Male, by Percent Passers Before Intervention |
| Scatterplot showing percentage point change of any AP course passers  on y-axis for Hispanic/Latino males and percent takers before intervention  on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science course passers  on y-axis for Hispanic/Latino males and percent takers before intervention  on the x-axis, one year after intervention. |

**Figure C.7.3**

*Hispanic/Latino Male AP Course Passing by Percent Takers Before Intervention―Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Course Passing―Three Years After Intervention―Hispanic/Latino Male, by Percent Passers Before Intervention | D – Change in Percent of AP Science Course Passing―Three Years After Intervention―Hispanic/Latino Male, by Percent Passers Before Intervention |
| Scatterplot showing percentage point change of any AP course passers  on y-axis for Hispanic/Latino males and percent takers before intervention  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course passers  on y-axis for Hispanic/Latino males and percent takers before intervention  on the x-axis, three years after intervention. |

**Figure C.7.4**

*Hispanic/Latino Male AP Course Passing by Percent of Teachers Attending One or More APSI―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Course Passing―Three Years After Intervention―Hispanic/Latino Male, by Percent of Teachers Attending One or More APSI | B - Change in Percent of AP Science Course Passing―Three Years After Intervention―Hispanic/Latino Male, by Percent of Teachers Attending One or More APSI |
| Scatterplot showing percentage point change of any AP course passers  on y-axis for Hispanic/Latino males and percent of teachers attending one or more APSI  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course passers  on y-axis for Hispanic/Latino males and percent of teachers attending one or more APSI  on the x-axis, three years after intervention. |

**Figure C.7.5**

*Hispanic/Latino Male AP Course Passing by Percent of Teachers Attending One or More APSI and Retained―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Course Passers―Three Years After Intervention―Hispanic/Latino Male, by Percent of Teachers Attending One or More APSI and Retained | B - Change in Percent of AP Science Course Passers―Three Years After Intervention―Hispanic/Latino Male, by Percent of Teachers Attending One or More APSI and Retained |
| Scatterplot showing percentage point change of any AP course passers on Y-axis for Hispanic/Latino males and percent of teachers attending one or more APSI and retained on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course passers on Y-axis for Hispanic/Latino males and percent of teachers attending one or more APSI and retained on the X-axis, three years after intervention. |

**Figure C.7.6**

*Hispanic/Latino Male AP Course Passing by Percent of Teachers Who Are Teachers of Color―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Course Passing―Three Years After Intervention―Hispanic/Latino Male, by Percent of Teachers Who Are Teachers of Color | B - Change in Percent of AP Science Course Passing―Three Years After Intervention―Hispanic/Latino Male, by Percent of Teachers Who Are Teachers of Color |
| Scatterplot showing percentage point change of any AP course passers on Y-axis for Hispanic/Latino males and percent of teachers who are teachers of color on the X-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course passers on Y-axis for Hispanic/Latino males and percent of teachers who are teachers of color on the X-axis, three years after intervention. |

**Figure C.8.1**

*Hispanic/Latino Female AP Course Taking by School Size―One Year After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Course Taking―One Year After Intervention―Hispanic/Latino Female, by School Size | B - Change in Percent of AP Science Course Taking―One Year After Intervention―Hispanic/Latino Female, by School Size |
| Scatterplot showing percentage point change of any AP course takers on y-axis for Hispanic/Latino females and number of students on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science course takers  on y-axis for Hispanic/Latino females and number of students on the x-axis, one year after intervention. |

**Figure C.8.1**

*Hispanic/Latino Female AP Course Taking by School Size―Three Years After Intervention*

|  |  |
| --- | --- |
| C - Change in Percent of Any (ELA, Math, or Science) AP Course Taking―Three Years After Intervention―Hispanic/Latino Female, by School Size | D - Change in Percent of AP Science Course Taking―Three Years After Intervention―Hispanic/Latino Female, by School Size |
| Scatterplot showing percentage point change of any AP course takers on y-axis for Hispanic/Latino females and number of students on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course takers  on y-axis for Hispanic/Latino females and number of students on the x-axis, three years after intervention. |

**Figure C.8.2**

*Hispanic/Latino Female AP Course Taking by Urban, Suburban, or Rural―One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Course Taking―One Year After Intervention―Hispanic/Latino Female, by Urban, Suburban, or Rural | B – Change in Percent of AP Science Course Taking―One Year After Intervention―Hispanic/Latino Female, by Urban, Suburban, or Rural |
| Scatterplot showing percentage point change of any AP course takers  on y-axis for Hispanic/Latino females and urban, suburban, or rural  on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science course takers  on y-axis for Hispanic/Latino females and urban, suburban, or rural  on the x-axis, one year after intervention. |

**Figure C.8.2**

*Hispanic/Latino Female AP Course Taking by Urban, Suburban, or Rural―Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Course Taking―Three Years After Intervention―Hispanic/Latino Female, by Urban, Suburban, or Rural | D – Change in Percent of AP Science Course Taking―Three Years After Intervention―Hispanic/Latino Female, by Urban, Suburban, or Rural |
| Scatterplot showing percentage point change of any AP course takers  on y-axis for Hispanic/Latino females and urban, suburban, or rural  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course takers  on y-axis for Hispanic/Latino females and urban, suburban, or rural  on the x-axis, three years after intervention. |

**Figure C.8.3**

*Hispanic/Latino Female AP Course Taking by Percent Takers Before Intervention―One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Course Taking―One Years After Intervention―Hispanic/Latino Female, by Percent Takers Before Intervention | B –Change in Percent of AP Science Course Taking―One Year After Intervention―Hispanic/Latino Female, by Percent Takers Before Intervention |
| Scatterplot showing percentage point change of any AP course takers  on y-axis for Hispanic/Latino females and percent takers before intervention  on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science course takers  on y-axis for Hispanic/Latino females and percent takers before intervention  on the x-axis, one year after intervention. |

**Figure C.8.3**

*Hispanic/Latino Female AP Course Taking by Percent Takers Before Intervention―Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Course Taking―Three Years After Intervention―Hispanic/Latino Female, by Percent Takers Before Intervention | D – Change in Percent of AP Science Course Taking―Three Years After Intervention―Hispanic/Latino Female, by Percent Takers Before Intervention |
| Scatterplot showing percentage point change of any AP course takers  on y-axis for Hispanic/Latino females and percent takers before intervention  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course takers  on y-axis for Hispanic/Latino females and percent takers before intervention  on the x-axis, three years after intervention. |

**Figure C.8.4**

*Hispanic/Latino Female AP Course Taking by Percent of Teachers Attending One or More APSI―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Course Takers―Three Years After Intervention―Hispanic/Latino Female, by Percent of Teachers Attending One or More APSI | B - Change in Percent of AP Science Course Takers―Three Years After Intervention―Hispanic/Latino Female, by Percent of Teachers Attending One or More APSI |
| Scatterplot showing percentage point change of any AP course takers  on y-axis for Hispanic/Latino females and percent of teachers attending one or more APSI  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course takers  on y-axis for Hispanic/Latino females and percent of teachers attending one or more APSI  on the x-axis, three years after intervention. |

**Figure C.8.5**

*Hispanic/Latino Female AP Course Taking by Percent of Teachers Attending One or More APSI and Retained―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Course Taking―Three Years After Intervention―Hispanic/Latino Female, by Percent of Teachers Attending One or More APSI and Retained | B - Change in Percent of AP Science Course Taking―Three Years After Intervention―Hispanic/Latino Female, by Percent of Teachers Attending One or More APSI and Retained |
| Scatterplot showing percentage point change of any AP course takers on Y-axis for Hispanic/Latino females and percent of teachers attending one or  more APSI and retained on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course takers on Y-axis for Hispanic/Latino females and percent of teachers attending one or more APSI and retained on the X-axis, three years after intervention. |

**Figure C.8.6**

*Hispanic/Latino Female AP Course Taking by Percent of Teachers Who Are Teachers of Color―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Course Taking―Three Years After Intervention―Hispanic/Latino Female, by Percent of Teachers Who Are Teachers of Color | B - Change in Percent of AP Science Course Taking―Three Years After Intervention―Hispanic/Latino Female, by Percent of Teachers Who Are Teachers of Color |
| Scatterplot showing percentage point change of any AP course takers on Y-axis for Hispanic/Latino females and percent of teachers who are teachers of color on the X-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course takers on Y-axis for Hispanic/Latino females and percent of teachers who are teachers of color on the X-axis, three years after intervention. |

**Figure C.9.1**

*Hispanic/Latino Female AP Course Passing by School Size―One Year After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Course Passing―One Year After Intervention―Hispanic/Latino Female, by School Size | B - Change in Percent of AP Science Course Passing―One Year After Intervention―Hispanic/Latino Female, by School Size |
| Scatterplot showing percentage point change of any AP course passers  on y-axis for Hispanic/Latino females and number of students on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science course passers  on y-axis for Hispanic/Latino females and number of students on the x-axis, one year after intervention. |

**Figure C.9.1**

*Hispanic/Latino Female AP Course Passing by School Size―Three Years After Intervention*

|  |  |
| --- | --- |
| C - Change in Percent of Any (ELA, Math, or Science) AP Course Passing―Three Years After Intervention―Hispanic/Latino Female, by School Size | D - Change in Percent of AP Science Course Passing―Three Years After Intervention―Hispanic/Latino Female, by School Size |
| Scatterplot showing percentage point change of any AP course passers  on y-axis for Hispanic/Latino females and number of students  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course passers  on y-axis for Hispanic/Latino females and number of students  on the x-axis, three years after intervention. |

**Figure C.9.2**

*Hispanic/Latino Female AP Course Passing by Urban, Suburban, or Rural―One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Course Passing―One Year After Intervention―Hispanic/Latino Female, by Urban, Suburban, or Rural | B – Change in Percent of AP Science Course Passing―One Year After Intervention―Hispanic/Latino Female, by Urban, Suburban, or Rural |
| Scatterplot showing percentage point change of any AP course passers  on y-axis for Hispanic/Latino females and urban, suburban, or rural  on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science course passers  on y-axis for Hispanic/Latino females and urban, suburban, or rural  on the x-axis, one year after intervention. |

**Figure C.9.2**

*Hispanic/Latino Female AP Course Passing by Urban, Suburban, or Rural―Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Course Passing―Three Years After Intervention―Hispanic/Latino Female, by Urban, Suburban, or Rural | D – Change in Percent of AP Science Course Passing―Three Years After Intervention―Hispanic/Latino Female, by Urban, Suburban, or Rural |
| Scatterplot showing percentage point change of any AP course passers  on y-axis for Hispanic/Latino females and urban, suburban, or rural  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course passers  on y-axis for Hispanic/Latino females and urban, suburban, or rural  on the x-axis, three years after intervention. |

**Figure C.9.3**

*Hispanic/Latino Female AP Course Passing by Percent Takers Before Intervention―One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Course Passing―One Year After Intervention―Hispanic/Latino Female, by Percent Passers Before Intervention | B – Change in Percent of AP Science Course Passing―One Year After Intervention―Hispanic/Latino Female, by Percent Passers Before Intervention |
| Scatterplot showing percentage point change of any AP course passers  on y-axis for Hispanic/Latino females and percent takers before intervention  on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science course passers  on y-axis for Hispanic/Latino females and percent takers before intervention  on the x-axis, one year after intervention. |

**Figure C.9.3**

*Hispanic/Latino Female AP Course Passing by Percent Takers Before Intervention―Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Course Passing―Three Years After Intervention―Hispanic/Latino Female, by Percent Passers Before Intervention | D – Change in Percent of AP Science Course Passing―Three Years After Intervention―Hispanic/Latino Female, by Percent Passers Before Intervention |
| Scatterplot showing percentage point change of any AP course passers  on y-axis for Hispanic/Latino females and percent takers before intervention  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course passers  on y-axis for Hispanic/Latino females and percent takers before intervention  on the x-axis, three years after intervention. |

**Figure C.9.4**

*Hispanic/Latino Female AP Course Passing by Percent of Teachers Attending One or More APSI―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Course Passing―Three Years After Intervention―Hispanic/Latino Female, by Percent of Teachers Attending One or More APSI | B - Change in Percent of AP Science Course Passing―Three Years After Intervention―Hispanic/Latino Female, by Percent of Teachers Attending One or More APSI |
| Scatterplot showing percentage point change of any AP course passers  on y-axis for Hispanic/Latino females and percent of teachers attending one or more APSI  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course passers  on y-axis for Hispanic/Latino females and percent of teachers attending one or more APSI  on the x-axis, three years after intervention. |

**Figure C.9.5**

*Hispanic/Latino Female AP Course Passing by Percent of Teachers Attending One or More APSI and Retained―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Course Passing―Three Years After Intervention―Hispanic/Latino Female, by Percent of Teachers Attending One or More APSI and Retained | B - Change in Percent of AP Science Course Passing―Three Years After Intervention―Hispanic/Latino Female, by Percent of Teachers Attending One or More APSI and Retained |
| Scatterplot showing percentage point change of any AP course passers on Y-axis for Hispanic/Latino females and percent of teachers attending one or more APSI and retained on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course passers on Y-axis for Hispanic/Latino females and percent of teachers attending one or more APSI and retained on the X-axis, three years after intervention. |

**Figure C.9.6**

*Hispanic/Latino Female AP Course Passing by Percent of Teachers Who Are Teachers of Color―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Course Passing―Three Years After Intervention―Hispanic/Latino Female, by Percent of Teachers Who Are Teachers of Color | B - Change in Percent of AP Science Course Passing―Three Years After Intervention―Hispanic/Latino Female, by Percent of Teachers Who Are Teachers of Color |
| Scatterplot showing percentage point change of any AP course passers on Y-axis for Hispanic/Latino females and percent of teachers who are teachers of color on the X-axis, three years after intervention. | Scatterplot showing percentage point change of AP science course passers on Y-axis for Hispanic/Latino females and percent of teachers who are teachers of color on the X-axis, three years after intervention. |

**Figure C.10.1**

*African American / Black Male AP Exam Taking by School Size―One Year After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―One Year After Intervention― African American / Black Male, by School Size | B - Change in Percent of AP Science Exam Taking―One Year After Intervention―African American / Black Male, by School Size |
| Scatterplot showing percentage point change of any AP exam takers on y-axis for African American/Black males and number of students on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science exam takers  on y-axis for African American/Black males and number of students  on the x-axis, one year after intervention. |

**Figure C.10.1**

*African American / Black Male AP Exam Taking by School Size―Three Years After Intervention*

|  |  |
| --- | --- |
| C - Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―Three Years After Intervention―African American / Black Male, by School Size | D - Change in Percent of AP Science Exam Taking―Three Years After Intervention―African American / Black Male, by School Size |
| Scatterplot showing percentage point change of any AP exam takers  on y-axis for African American/Black males and number of students  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam takers  on y-axis for African American/Black males and number of students  on the x-axis, three years after intervention. |

**Figure C.10.2**

*African American / Black Male AP Exam Taking by Urban, Suburban, or Rural―One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―One Year After Intervention―African American / Black Male, by Urban, Suburban, or Rural | B – Change in Percent of AP Science Exam Taking―One Year After Intervention―African American / Black Male, by Urban, Suburban, or Rural |
| Scatterplot showing percentage point change of any AP exam takers  on y-axis for African American/Black males and urban, suburban, or rural  on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science exam takers  on y-axis for African American/Black males and urban, suburban, or rural  on the x-axis, one year after intervention. |

**Figure C.10.2**

*African American / Black Male AP Exam Taking by Urban, Suburban, or Rural―Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―Three Years After Intervention―African American / Black Male, by Urban, Suburban, or Rural | D – Change in Percent of AP Science Exam Taking―Three Years After Intervention―African American / Black Male, by Urban, Suburban, or Rural |
| Scatterplot showing percentage point change of any AP exam takers  on y-axis for African American/Black males and urban, suburban, or rural  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam takers  on y-axis for African American/Black males and urban, suburban, or rural  on the x-axis, three years after intervention. |

**Figure C.10.3**

*African American / Black Male AP Exam Taking by Percent Takers Before Intervention―One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―One Year After Intervention―African American / Black Male, by Percent Takers Before Intervention | B – Change in Percent of AP Science Exam Taking―One Year After Intervention―African American / Black Male, by Percent Takers Before Intervention |
| Scatterplot showing percentage point change of any AP exam takers  on y-axis for African American/Black males and percent takers before intervention  on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science exam takers  on y-axis for African American/Black males and percent takers before intervention  on the x-axis, one year after intervention. |

**Figure C.10.3**

*African American / Black Male AP Exam Taking by Percent Takers Before Intervention―Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―Three Years After Intervention―African American / Black Male, by Percent Takers Before Intervention | D – Change in Percent of AP Science Exam Taking―Three Years After Intervention―African American / Black Male, by Percent Takers Before Intervention |
| Scatterplot showing percentage point change of any AP exam takers  on y-axis for African American/Black males and percent takers before intervention  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam takers  on y-axis for African American/Black males and percent takers before intervention  on the x-axis, three years after intervention. |

**Figure C.10.4**

*African American / Black Male AP Exam Taking by Percent of Teachers Attending One or More APSI―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―Three Years After Intervention―African American / Black Male, by Percent of Teachers Attending One or More APSI | B - Change in Percent of AP Science Exam Taking―Three Years After Intervention―African American / Black Male, by Percent of Teachers Attending One or More APSI |
| Scatterplot showing percentage point change of any AP exam takers  on y-axis for African American/Black males and percent of teachers attending one or more APSI  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam takers  on y-axis for African American/Black males and percent of teachers attending one or more APSI  on the x-axis, three years after intervention. |

**Figure C.10.5**

*African American / Black Male AP Exam Taking by Percent of Teachers Attending One or More APSI and Retained―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―Three Years After Intervention―African American / Black Male, by Percent of Teachers Attending One or More APSI and Retained | B - Change in Percent of AP Science Exam Taking―Three Years After Intervention―African American / Black Male, by Percent of Teachers Attending One or More APSI and Retained |
| Scatterplot showing percentage point change of any AP exam takers on Y-axis for African American/Black males and percent of teachers attending one or more APSI and retained on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP Science exam takers on Y-axis for African American/Black males and percent of teachers attending one or more APSI and retained on the X-axis, three years after intervention. |

**Figure C.10.6**

*African American / Black Male AP Exam Taking by Percent of Teachers Who Are Teachers of Color―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―Three Years After Intervention―African American / Black Male, by Percent of Teachers Who Are Teachers of Color | B - Change in Percent of AP Science Exam Taking―Three Years After Intervention―African American / Black Male, by Percent of Teachers Who Are Teachers of Color |
| Scatterplot showing percentage point change of any AP exam takers on Y-axis for African American/Black males and percent of teachers who are teachers of color on the X-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam takers on Y-axis for African American/Black males and percent of teachers who are teachers of color on the X-axis, three years after intervention. |

**Figure C.11.1**

*African American / Black Male AP Exam Passing by School Size―One Year After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―One Year After Intervention―African American / Black Male, by School Size | B - Change in Percent of AP Science Exam Passing―One Year After Intervention―African American / Black Male, by School Size |
| Scatterplot showing percentage point change of any AP exam passers on y-axis for African American/Black males and number of students on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science exam passers  on y-axis for African American/Black males and number of students on the x-axis, one year after intervention. |

**Figure C.11.1**

*African American / Black Male AP Exam Passing by School Size―Three Years After Intervention*

|  |  |
| --- | --- |
| C - Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―Three Years After Intervention―African American / Black Male, by School Size | D - Change in Percent of AP Science Exam Passing―Three Years After Intervention―African American / Black Male, by School Size |
| Scatterplot showing percentage point change of any AP exam passers  on y-axis for African American/Black males and number of students  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam passers  on y-axis for African American/Black males and number of students  on the x-axis, three years after intervention. |

**Figure C.11.2**

*African American / Black Male AP Exam Taking by Urban, Suburban, or Rural―One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―One Year After Intervention―African American / Black Male, by Urban, Suburban, or Rural | B – Change in Percent of AP Science Exam Passing―One Year After Intervention―African American / Black Male, by Urban, Suburban, or Rural |
| Scatterplot showing percentage point change of any AP exam passers  on y-axis for African American/Black males and urban, suburban, or rural  on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science exam passers  on y-axis for African American/Black males and urban, suburban, or rural  on the x-axis, one year after intervention. |

**Figure C.11.2**

*African American / Black Male AP Exam Taking by Urban, Suburban, or Rural―Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―Three Years After Intervention―African American / Black Male, by Urban, Suburban, or Rural | D – Change in Percent of AP Science Exam Passing―Three Years After Intervention―African American / Black Male, by Urban, Suburban, or Rural |
| Scatterplot showing percentage point change of any AP exam passers  on y-axis for African American/Black males and urban, suburban, or rural  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam passers  on y-axis for African American/Black males and urban, suburban, or rural  on the x-axis, three years after intervention. |

**Figure C.11.3**

*African American / Black Male AP Exam Passing by Percent Takers Before Intervention―One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―One Year After Intervention―African American / Black Male, by Percent Passers Before Intervention | B – Change in Percent of AP Science Exam Passing―One Year After Intervention―African American / Black Male, by Percent Passers Before Intervention |
| Scatterplot showing percentage point change of any AP exam passers  on y-axis for African American/Black males and percent takers before intervention  on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science exam passers  on y-axis for African American/Black males and percent takers before intervention  on the x-axis, one year after intervention. |

**Figure C.11.3**

*African American / Black Male AP Exam Passing by Percent Takers Before Intervention―Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―Three Years After Intervention―African American / Black Male, by Percent Passers Before Intervention | D – Change in Percent of AP Science Exam Passing―Three Years After Intervention―African American / Black Male, by Percent Passers Before Intervention |
| Scatterplot showing percentage point change of any AP exam passers  on y-axis for African American/Black males and percent takers before intervention  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam passers  on y-axis for African American/Black males and percent takers before intervention  on the x-axis, three years after intervention. |

**Figure C.11.4**

*African American / Black Male AP Exam Passing by Percent of Teachers Attending One or More APSI―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―Three Years After Intervention―African American / Black Male, by Percent of Teachers Attending One or More APSI | B - Change in Percent of AP Science Exam Passing―Three Years After Intervention―African American / Black Male, by Percent of Teachers Attending One or More APSI |
| Scatterplot showing percentage point change of any AP exam passers  on y-axis for African American/Black males and percent of teachers attending one or more APSI  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam passers  on y-axis for African American/Black males and percent of teachers attending one or more APSI  on the x-axis, three years after intervention. |

**Figure C.11.5**

*African American / Black Male AP Exam Passing by Percent of Teachers Attending One or More APSI and Retained―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―Three Years After Intervention―African American / Black Male, by Percent of Teachers Attending One or More APSI and Retained | B - Change in Percent of AP Science Exam Passing―Three Years After Intervention―African American / Black Male, by Percent of Teachers Attending One or More APSI and Retained |
| Scatterplot showing percentage point change of any AP exam passers on Y-axis for African American/Black males and percent of teachers attending one or more APSI and retained on the X-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam passers on Y-axis for African American/Black males and percent of teachers attending one or more APSI and retained on the X-axis, three years after intervention. |

**Figure C.11.6**

*African American / Black Male AP Exam Passing by Percent of Teachers Who Are Teachers of Color―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―Three Years After Intervention―African American / Black Male, by Percent of Teachers Who Are Teachers of Color | B - Change in Percent of AP Science Exam Passing―Three Years After Intervention―African American / Black Male, by Percent of Teachers Who Are Teachers of Color |
| Scatterplot showing percentage point change of any AP exam passers on Y-axis for African American/Black males and percent of teachers who are teachers of color on the X-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam passers on Y-axis for African American/Black males and percent of teachers who are teachers of color on the X-axis, three years after intervention. |

**Figure C.12.1**

*African American / Black Female AP Exam Taking by School Size―One Year After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―One Year After Intervention― African American / Black Female, by School Size | B - Change in Percent of AP Science Exam Taking―One Year After Intervention―African American / Black Female, by School Size |
| Scatterplot showing percentage point change of any AP exam takers on y-axis for African American/Black females and number of students on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science exam takers on y-axis for African American/Black females and number of students on the x-axis, one year after intervention. |

**Figure C.12.1**

*African American / Black Female AP Exam Taking by School Size―Three Years After Intervention*

|  |  |
| --- | --- |
| C - Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―Three Years After Intervention―African American / Black Female, by School Size | D - Change in Percent of AP Science Exam Taking―Three Years After Intervention―African American / Black Female, by School Size |
| Scatterplot showing percentage point change of any AP exam takers  on y-axis for African American/Black females and number of students  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam takers  on y-axis for African American/Black females and number of students  on the x-axis, three years after intervention. |

**Figure C.12.2**

*African American / Black Female AP Exam Taking by Urban, Suburban, or Rural―One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―One Year After Intervention―African American / Black Female, by Urban, Suburban, or Rural | B – Change in Percent of AP Science Exam Taking―One Year After Intervention―African American / Black Female, by Urban, Suburban, or Rural |
| Scatterplot showing percentage point change of any AP exam takers on y-axis for African American/Black males and urban, suburban, or rural  on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science exam takers on y-axis for African American/Black males and urban, suburban, or rural  on the x-axis, one year after intervention. |

**Figure C.12.2**

*African American / Black Female AP Exam Taking by Urban, Suburban, or Rural―Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―Three Years After Intervention―African American / Black Female, by Urban, Suburban, or Rural | D – Change in Percent of AP Science Exam Taking―Three Years After Intervention―African American / Black Female, by Percent of Teachers Attending One or More APSI and Retained |
| Scatterplot showing percentage point change of any AP exam takers  on y-axis for African American/Black females and urban, suburban, or rural  on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science exam takers  on y-axis for African American/Black females and urban, suburban, or rural  on the x-axis, one year after intervention. |

**Figure C.12.3**

*African American / Black Female AP Exam Taking by Percent Takers Before Intervention―One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―One Year After Intervention―African American / Black Female, by Percent Takers Before Intervention | B – Change in Percent of AP Science Exam Taking―One Year After Intervention―African American / Black Female, by Percent Takers Before Intervention |
| Scatterplot showing percentage point change of any AP exam takers  on y-axis for African American/Black females and urban, suburban, or rural  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam takers  on y-axis for African American/Black females and urban, suburban, or rural  on the x-axis, three years after intervention. |

**Figure C.12.3**

*African American / Black Female AP Exam Taking by Percent Takers Before Intervention―Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―Three Years After Intervention―African American / Black Female, by Percent Takers Before Intervention | D – Change in Percent of AP Science Exam Taking―Three Years After Intervention―African American / Black Female, by Percent Takers Before Intervention |
| Scatterplot showing percentage point change of any AP exam takers  on y-axis for African American/Black females and percent takers before intervention  on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science exam takers  on y-axis for African American/Black females and percent takers before intervention  on the x-axis, one year after intervention. |

**Figure C.12.4**

*African American / Black Female AP Exam Taking by Percent of Teachers Attending One or More APSI―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―Three Years After Intervention―African American / Black Female, by Percent of Teachers Attending One or More APSI | B - Change in Percent of AP Science Exam Taking―Three Years After Intervention―African American / Black Female, by Percent of Teachers Attending One or More APSI |
| Scatterplot showing percentage point change of any AP exam takers  on y-axis for African American/Black females and percent of teachers attending one or more APSI  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam takers  on y-axis for African American/Black females and percent of teachers attending one or more APSI  on the x-axis, three years after intervention. |

**Figure C.12.5**

*African American / Black Female AP Exam Taking by Percent of Teachers Attending One or More APSI and Retained―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―Three Years After Intervention―African American / Black Female, by Percent of Teachers Attending One or More APSI and Retained | B - Change in Percent of AP Science Exam Taking―Three Years After Intervention―African American / Black Female, by Percent of Teachers Attending One or More APSI and Retained |
| Scatterplot showing percentage point change of any AP exam takers on Y-axis for African American/Black females and percent of teachers attending one or more APSI and retained on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP Science exam takers on Y-axis for African American/Black females and percent of teachers attending one or more APSI and retained on the X-axis, three years after intervention. |

**Figure C.12.6**

*African American / Black Female AP Exam Taking by Percent of Teachers Who Are Teachers of Color―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―Three Years After Intervention―African American / Black Female, by Percent of Teachers Who Are Teachers of Color― | B - Change in Percent of AP Science Exam Taking―Three Years After Intervention―African American / Black Female, by Percent of Teachers Who Are Teachers of Color |
| Scatterplot showing percentage point change of any AP exam takers on Y-axis for African American/Black females and percent of teachers who are teachers of color on the X-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam takers on Y-axis for African American/Black females and percent of teachers who are teachers of color on the X-axis, three years after intervention. |

**Figure C.13.1**

*African American / Black Female AP Exam Passing by School Size―One Year After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―One Year After Intervention―African American / Black Female, by School Size | B - Change in Percent of AP Science Exam Passing―One Year After Intervention―African American / Black Female, by School Size |
| Scatterplot showing percentage point change of any AP exam passers on y-axis for African American/Black females and number of students on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science exam passers  on y-axis for African American/Black females and number of students on the x-axis, one year after intervention. |

**Figure C.13.1**

*African American / Black Female AP Exam Passing by School Size―Three Years After Intervention*

|  |  |
| --- | --- |
| C - Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―Three Years After Intervention―African American / Black Female, by School Size | D - Change in Percent of AP Science Exam Passing―Three Years After Intervention―African American / Black Female, by School Size |
| Scatterplot showing percentage point change of any AP exam passers  on y-axis for African American/Black females and number of students  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam passers  on y-axis for African American/Black females and number of students  on the x-axis, three years after intervention. |

**Figure C.13.2**

*African American / Black Female AP Exam Passing by Urban, Suburban, or Rural―One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―One Year After Intervention―African American / Black Female, by Urban, Suburban, or Rural | B – Change in Percent of AP Science Exam Passing―One Year After Intervention―African American / Black Female, by Urban, Suburban, or Rural |
| Scatterplot showing percentage point change of any AP exam passers  on y-axis for African American/Black females and urban, suburban, or rural  on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science exam passers  on y-axis for African American/Black females and urban, suburban, or rural  on the x-axis, one year after intervention. |

**Figure C.13.2**

*African American / Black Female AP Exam Passing by Urban, Suburban, or Rural―Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―Three Years After Intervention―African American / Black Female, by Urban, Suburban, or Rural | D – Change in Percent of AP Science Exam Passing―Three Years After Intervention―African American / Black Female, by Urban, Suburban, or Rural |
| Scatterplot showing percentage point change of any AP exam passers  on y-axis for African American/Black females and urban, suburban, or rural  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam passers  on y-axis for African American/Black females and urban, suburban, or rural  on the x-axis, three years after intervention. |

**Figure C.13.3**

*African American / Black Female AP Exam Passing by Percent Takers Before Intervention―One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―One Year After Intervention―African American / Black Female, by Percent Passers Before Intervention | B – Change in Percent of AP Science Exam Passing―One Year After Intervention―African American / Black Female, by Percent Passers Before Intervention |
| Scatterplot showing percentage point change of any AP exam passers  on y-axis for African American/Black females and percent takers before intervention  on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science exam passers  on y-axis for African American/Black females and percent takers before intervention  on the x-axis, one year after intervention. |

**Figure C.13.3**

*African American / Black Female AP Exam Passing by Percent Takers Before Intervention―Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―Three Years After Intervention―African American / Black Female, by Percent Passers Before Intervention | D – Change in Percent of AP Science Exam Passing―Three Years After Intervention―African American / Black Female, by Percent Passers Before Intervention |
| Scatterplot showing percentage point change of any AP exam passers  on y-axis for African American/Black females and percent takers before intervention  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam passers  on y-axis for African American/Black females and percent takers before intervention  on the x-axis, three years after intervention. |

**Figure C.13.4**

*African American / Black Female AP Exam Passing by Percent of Teachers Attending One or More APSI―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―Three Years After Intervention―African American / Black Female, by Percent of Teachers Attending One or More APSI | B - Change in Percent of AP Science Exam Passing―Three Years After Intervention―African American / Black Female, by Percent of Teachers Attending One or More APSI |
| Scatterplot showing percentage point change of any AP exam passers  on y-axis for African American/Black females and percent of teachers attending one or more APSI  on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam passers  on y-axis for African American/Black females and percent of teachers attending one or more APSI  on the x-axis, three years after intervention. |

**Figure C.13.5**

*African American / Black Female AP Exam Passing by Percent of Teachers Attending One or More APSI and Retained―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―Three Years After Intervention―African American / Black Female, by Percent of Teachers Attending One or More APSI and Retained | B - Change in Percent of AP Science Exam Passing―Three Years After Intervention―African American / Black Female, by Percent of Teachers Attending One or More APSI and Retained |
| Scatterplot showing percentage point change of any AP exam passers on Y-axis for African American/Black females and percent of teachers attending one or more APSI and retained on the X-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam passers on Y-axis for African American/Black females and percent of teachers attending one or more APSI and retained on the X-axis, three years after intervention. |

**Figure C.13.6**

*African American / Black Female AP Exam Passing by Percent of Teachers Who Are Teachers of Color―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―Three Years After Intervention―African American / Black Female, by Percent of Teachers Who Are Teachers of Color | B - Change in Percent of AP Science Course Passing―Three Years After Intervention―African American / Black Female, by Percent of Teachers Who Are Teachers of Color |
| Scatterplot showing percentage point change of any AP exam passers on Y-axis for African American/Black females and percent of teachers who are teachers of color on the X-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam passers on Y-axis for African American/Black females and percent of teachers who are teachers of color on the X-axis, three years after intervention. |

**Figure C.14.1**

*Hispanic/Latino Male AP Exam Taking by School Size―One Year After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―One Year After Intervention― Hispanic/Latino Male, by School Size | B - Change in Percent of AP Science Exam Taking―One Year After Intervention―Hispanic/Latino Male, by School Size |
| Scatterplot showing percentage point change of any AP exam takers on y-axis for Hispanic/Latino males and number of students on the x-axis, one year after intervention. | Scatterplot showing percentage point change of any AP exam takers on y-axis for Hispanic/Latino males and number of students on the x-axis, one year after intervention. |

**Figure C.14.1**

*Hispanic/Latino Male AP Exam Taking by School Size―Three Years After Intervention*

|  |  |
| --- | --- |
| C - Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―Three Years After Intervention―Hispanic/Latino Male, by School Size | D - Change in Percent of AP Science Exam Taking―Three Years After Intervention―Hispanic/Latino Male, by School Size |
| Scatterplot showing percentage point change of any AP exam takers  on y-axis for Hispanic/Latino males and number of students on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam takers  on y-axis for Hispanic/Latino males and number of students on the x-axis, three years after intervention. |

**Figure C.14.2**

*Hispanic/Latino Male AP Exam Taking by Urban, Suburban, or Rural―One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―One Year After Intervention―Hispanic/Latino Male, by Urban, Suburban, or Rural | B – Change in Percent of AP Science Exam Taking―One Year After Intervention―Hispanic/Latino Male, by Urban, Suburban, or Rural |
| Scatterplot showing percentage point change of any AP exam takers  on y-axis for Hispanic/Latino males and urban, suburban, or rural on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science exam takers  on y-axis for Hispanic/Latino males and urban, suburban, or rural on the x-axis, one year after intervention. |

**Figure C.14.2**

*Hispanic/Latino Male AP Exam Taking by Urban, Suburban, or Rural―Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―Three Years After Intervention―Hispanic/Latino Male, by Urban, Suburban, or Rural | D – Change in Percent of AP Science Exam Taking―Three Years After Intervention―Hispanic/Latino Male, by Urban, Suburban, or Rural |
| Scatterplot showing percentage point change of any AP exam takers  on y-axis for Hispanic/Latino males and urban, suburban, or rural on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam takers  on y-axis for Hispanic/Latino males and urban, suburban, or rural on the x-axis, three years after intervention. |

**Figure C.14.3**

*Hispanic/Latino Male AP Exam Taking by Percent Takers Before Intervention―One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―One Year After Intervention―Hispanic/Latino Male, by Percent Takers Before Intervention | B – Change in Percent of AP Science Exam Taking―One Year After Intervention―Hispanic/Latino Male, by Percent Takers Before Intervention |
| Scatterplot showing percentage point change of any AP exam takers  on y-axis for Hispanic/Latino males and percent takers before intervention on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science exam takers  on y-axis for Hispanic/Latino males and percent takers before intervention on the x-axis, one year after intervention. |

**Figure C.14.3**

*Hispanic/Latino Male AP Exam Taking by Percent Takers Before Intervention―Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―Three Years After Intervention―Hispanic/Latino Male, by Percent Takers Before Intervention | D – Change in Percent of AP Science Exam Taking―Three Years After Intervention―Hispanic/Latino Male, by Percent Takers Before Intervention |
| Scatterplot showing percentage point change of any AP exam takers  on y-axis for Hispanic/Latino males and percent takers before intervention on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam takers  on y-axis for Hispanic/Latino males and percent takers before intervention on the x-axis, three years after intervention. |

**Figure C.14.4**

*Hispanic/Latino Mal AP Exam Taking by Percent of Teachers Attending One or More APSI―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―Three Years After Intervention―Hispanic/Latino Male, by Percent of Teachers Attending One or More APSI | B - Change in Percent of AP Science Exam Taking―Three Years After Intervention―Hispanic/Latino Male, by Percent of Teachers Attending One or More APSI |
| Scatterplot showing percentage point change of any AP exam takers  on Y-axis for Hispanic/Latino males and percent of teachers attending one or more APSI on the X-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam takers  on Y-axis for Hispanic/Latino males and percent of teachers attending one or more APSI on the X-axis, three years after intervention. |

**Figure C.14.5**

*Hispanic/Latino Male AP Exam Taking by Percent of Teachers Attending One or More APSI and Retained―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―Three Years After Intervention―Hispanic/Latino Male, by Percent of Teachers Attending One or More APSI and Retained | B - Change in Percent of AP Science Exam Taking―Three Years After Intervention―Hispanic/Latino Male, by Percent of Teachers Attending One or More APSI and Retained |
| Scatterplot showing percentage point change of any AP exam takers on Y-axis for Hispanic/Latino males and percent of teachers attending one or more APSI and retained on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam takers on Y-axis for Hispanic/Latino males and percent of teachers attending one or more APSI and retained on the X-axis, three years after intervention. |

**Figure C.14.6**

*Hispanic/Latino Male AP Exam Taking by Percent of Teachers Who Are Teachers of Color―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―Three Years After Intervention―Hispanic/Latino Male, by Percent of Teachers Who Are Teachers of Color ― | B - Change in Percent of AP Science Exam Taking―Three Years After Intervention―Hispanic/Latino Male, by Percent of Teachers Who Are Teachers of Color |
| Scatterplot showing percentage point change of any AP exam takers on Y-axis for Hispanic/Latino males and percent of teachers who are teachers of color on the X-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam takers on Y-axis for Hispanic/Latino males and percent of teachers who are teachers of color on the X-axis, three years after intervention. |

**Figure C.15.1**

*Hispanic/Latino Male AP Exam Passing by School Size―One Year After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―One Year After Intervention―Hispanic/Latino Male, by School Size | B - Change in Percent of AP Science Exam Passing―One Year After Intervention―Hispanic/Latino Male, by School Size |
| Scatterplot showing percentage point change of any AP exam passers on y-axis for Hispanic/Latino males and number of students on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science exam passers on y-axis for Hispanic/Latino males and number of students on the x-axis, one year after intervention. |

**Figure C.15.1**

*Hispanic/Latino Male AP Exam Passing by School Size―Three Years After Intervention*

|  |  |
| --- | --- |
| C - Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―Three Years After Intervention―Hispanic/Latino Male, by School Size | D - Change in Percent of AP Science Exam Passing―Three Years After Intervention―Hispanic/Latino Male, by School Size |
| Scatterplot showing percentage point change of any AP exam passers  on y-axis for Hispanic/Latino males and number of students on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam passers  on y-axis for Hispanic/Latino males and number of students on the x-axis, three years after intervention. |

**Figure C.15.2**

*Hispanic/Latino Male AP Exam Passing by Urban, Suburban, or Rural―One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―One Year After Intervention―Hispanic/Latino Male, by Urban, Suburban, or Rural | B – Change in Percent of AP Science Exam Passing―One Year After Intervention―Hispanic/Latino Male, by Urban, Suburban, or Rural |
| Scatterplot showing percentage point change of any AP exam passers  on y-axis for Hispanic/Latino males and urban, suburban, or rural on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science exam passers  on y-axis for Hispanic/Latino males and urban, suburban, or rural on the x-axis, one year after intervention. |

**Figure C.15.2**

*Hispanic/Latino Male AP Exam Passing by Urban, Suburban, or Rural―Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―Three Years After Intervention―Hispanic/Latino Male, by Urban, Suburban, or Rural | D – Change in Percent of AP Science Exam Passing―Three Years After Intervention―Hispanic/Latino Male, by Urban, Suburban, or Rural |
| Scatterplot showing percentage point change of any AP exam passers  on y-axis for Hispanic/Latino males and urban, suburban, or rural on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam passers  on y-axis for Hispanic/Latino males and urban, suburban, or rural on the x-axis, three years after intervention. |

**Figure C.15.3**

*Hispanic/Latino Male AP Exam Passing by Percent Takers Before Intervention―One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―One Year After Intervention―Hispanic/Latino Male, by Percent Passers Before Intervention | B – Change in Percent of AP Science Exam Passing―One Year After Intervention―Hispanic/Latino Male, by Percent Passers Before Intervention |
| Scatterplot showing percentage point change of any AP exam passers  on y-axis for Hispanic/Latino males and percent takers before intervention on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science exam passers  on y-axis for Hispanic/Latino males and percent takers before intervention on the x-axis, one year after intervention. |

**Figure C.15.3**

*Hispanic/Latino Male AP Exam Passing by Percent Takers Before Intervention―Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―Three Years After Intervention―Hispanic/Latino Male, by Percent Passers Before Intervention | D – Change in Percent of AP Science Exam Passing―Three Years After Intervention―Hispanic/Latino Male, by Percent Passers Before Intervention |
| Scatterplot showing percentage point change of any AP exam passers  on y-axis for Hispanic/Latino males and percent takers before intervention on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam passers  on y-axis for Hispanic/Latino males and percent takers before intervention on the x-axis, three years after intervention. |

**Figure C.15.4**

*Hispanic/Latino Male AP Exam Passing by Percent of Teachers Attending One or More APSI―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―Three Years After Intervention―Hispanic/Latino Male, by Percent of Teachers Attending One or More APSI | B - Change in Percent of AP Science Exam Passing―Three Years After Intervention―Hispanic/Latino Male, by Percent of Teachers Attending One or More APSI |
| Scatterplot showing percentage point change of any AP exam passers  on y-axis for Hispanic/Latino males and percent of teachers attending one or more APSI on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam passers  on y-axis for Hispanic/Latino males and percent of teachers attending one or more APSI on the x-axis, three years after intervention. |

**Figure C.15.5**

*Hispanic/Latino Male AP Exam Passing by Percent of Teachers Attending One or More APSI and Retained―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―Three Years After Intervention―Hispanic/Latino Male, by Percent of Teachers Attending One or More APSI and Retained | B - Change in Percent of AP Science Exam Passing―Three Years After Intervention―Hispanic/Latino Male, by Percent of Teachers Attending One or More APSI and Retained |
| Scatterplot showing percentage point change of any AP exam passers on Y-axis for Hispanic/Latino males and percent of teachers attending one or more APSI and retained on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam passers on Y-axis for Hispanic/Latino males and percent of teachers attending one or more APSI and retained on the X-axis, three years after intervention. |

**Figure C.15.6**

*Hispanic/Latino Male AP Exam Passing by Percent of Teachers Who Are Teachers of Color―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―Three Years After Intervention―Hispanic/Latino Male, by Percent of Teachers Who Are Teachers of Color | B - Change in Percent of AP Science Exam Passing―Three Years After Intervention―Hispanic/Latino Male, by Percent of Teachers Who Are Teachers of Color |
| Scatterplot showing percentage point change of any AP exam passers on Y-axis for Hispanic/Latino males and percent of teachers who are teachers of color on the X-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam passers on Y-axis for Hispanic/Latino males and percent of teachers who are teachers of color on the X-axis, three years after intervention. |

**Figure C.16.1**

*Hispanic/Latino Female AP Exam Taking by School Size―One Year After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―One Year After Intervention― Hispanic/Latino Female, by School Size | B - Change in Percent of AP Science Exam Taking―One Year After Intervention―Hispanic/Latino Female, by School Size |
| Scatterplot showing percentage point change of any AP exam takers on y-axis for Hispanic/Latino females and number of students on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science exam takers on y-axis for Hispanic/Latino females and number of students on the x-axis, one year after intervention. |

**Figure C.16.1**

*Hispanic/Latino Female AP Exam Taking by School Size―Three Years After Intervention*

|  |  |
| --- | --- |
| C - Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―Three Years After Intervention―Hispanic/Latino Female, by School Size | D - Change in Percent of AP Science Exam Taking―Three Years After Intervention―Hispanic/Latino Female, by School Size |
| Scatterplot showing percentage point change of any AP exam takers  on y-axis for Hispanic/Latino females and number of students on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam takers  on y-axis for Hispanic/Latino females and number of students on the x-axis, three years after intervention. |

**Figure C.16.2**

*Hispanic/Latino Female AP Exam Taking by Urban, Suburban, or Rural―One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―One Year After Intervention―Hispanic/Latino Female, by Urban, Suburban, or Rural | B – Change in Percent of AP Science Exam Taking―One Year After Intervention―Hispanic/Latino Female, by Urban, Suburban, or Rural |
| Scatterplot showing percentage point change of any AP exam takers  on y-axis for Hispanic/Latino females and urban, suburban, or rural on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science exam takers  on y-axis for Hispanic/Latino females and urban, suburban, or rural on the x-axis, one year after intervention. |

**Figure C.16.2**

*Hispanic/Latino Female AP Exam Taking by Urban, Suburban, or Rural―Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―Three Years After Intervention―Hispanic/Latino Female, by Urban, Suburban, or Rural | D – Change in Percent of AP Science Exam Taking―Three Years After Intervention―Hispanic/Latino Female, by Urban, Suburban, or Rural |
| Scatterplot showing percentage point change of any AP exam takers  on y-axis for Hispanic/Latino females and urban, suburban, or rural on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam takers  on y-axis for Hispanic/Latino females and urban, suburban, or rural on the x-axis, three years after intervention. |

**Figure C.16.3**

*Hispanic/Latino Female AP Exam Taking by Percent Takers Before Intervention―One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Exam Takers―One Year After Intervention―Hispanic/Latino Female, by Percent Takers Before Intervention | B – Change in Percent of AP Science Exam Takers―One Year After Intervention―Hispanic/Latino Female, by Percent Takers Before Intervention |
| Scatterplot showing percentage point change of any AP exam takers  on y-axis for Hispanic/Latino females and percent takers before intervention on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science exam takers  on y-axis for Hispanic/Latino females and percent takers before intervention on the x-axis, one year after intervention. |

**Figure C.16.3**

*Hispanic/Latino Female AP Exam Taking by Percent Takers Before Intervention―Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―Three Years After Intervention―Hispanic/Latino Female, by Percent Takers Before Intervention | D – Change in Percent of AP Science Exam Taking―Three Years After Intervention―Hispanic/Latino Female, by Percent Takers Before Intervention |
| Scatterplot showing percentage point change of any AP exam takers  on y-axis for Hispanic/Latino females and percent takers before intervention on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam takers  on y-axis for Hispanic/Latino females and percent takers before intervention on the x-axis, three years after intervention. |

**Figure C.16.4**

*Hispanic/Latino Female AP Exam Taking by Percent of Teachers Attending One or More APSI―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―Three Years After Intervention―Hispanic/Latino Female, by Percent of Teachers Attending One or More APSI | B - Change in Percent of AP Science Exam Taking―Three Years After Intervention―Hispanic/Latino Female, by Percent of Teachers Attending One or More APSI |
| Scatterplot showing percentage point change of any AP exam takers  on y-axis for Hispanic/Latino females and percent of teachers attending one or more APSI on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam takers  on y-axis for Hispanic/Latino females and percent of teachers attending one or more APSI on the x-axis, three years after intervention. |

**Figure C.16.5**

*Hispanic/Latino Female AP Exam Taking by Percent of Teachers Attending One or More APSI and Retained―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―Three Years After Intervention―Hispanic/Latino Female, by Percent of Teachers Attending One or More APSI and Retained | B - Change in Percent of AP Science Exam Taking―Three Years After Intervention―Hispanic/Latino Female, by Percent of Teachers Attending One or More APSI and Retained |
| Scatterplot showing percentage point change of any AP exam takers on Y-axis for Hispanic/Latino females and percent of teachers attending one or more APSI and retained on the X-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam takers on Y-axis for Hispanic/Latino females and percent of teachers attending one or more APSI and retained on the X-axis, three years after intervention. |

**Figure C.16.6**

*Hispanic/Latino Female AP Exam Taking by Percent of Teachers Who Are Teachers of Color―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Taking―Three Years After Intervention―Hispanic/Latino Female, by Percent of Teachers Who Are Teachers of Color | B - Change in Percent of AP Science Exam Taking―Three Years After Intervention―Hispanic/Latino Female, by Percent of Teachers Who Are Teachers of Color |
| Scatterplot showing percentage point change of any AP exam takers on Y-axis for Hispanic/Latino females and percent of teachers who are teachers of color on the X-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam takers on Y-axis for Hispanic/Latino females and percent of teachers who are teachers of color on the X-axis, three years after intervention. |

**Figure C.17.1**

*Hispanic/Latino Female AP Exam Passing by School Size―One Year After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―One Year After Intervention―Hispanic/Latino Female, by School Size | B - Change in Percent of AP Science Exam Passing―One Year After Intervention―Hispanic/Latino Female, by School Size |
| Scatterplot showing percentage point change of any AP exam passers on y-axis for Hispanic/Latino females and number of students on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science exam passers on y-axis for Hispanic/Latino females and number of students on the x-axis, one year after intervention. |

**Figure C.17.1**

*Hispanic/Latino Female AP Exam Passing by School Size―Three Years After Intervention*

|  |  |
| --- | --- |
| C - Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―Three Years After Intervention―Hispanic/Latino Female, by School Size | D - Change in Percent of AP Science Exam Passing―Three Years After Intervention―Hispanic/Latino Female, by School Size |
| Scatterplot showing percentage point change of any AP exam passers  on y-axis for Hispanic/Latino females and number of students on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam passers  on y-axis for Hispanic/Latino females and number of students on the x-axis, three years after intervention. |

**Figure C.17.2**

*Hispanic/Latino Female AP Exam Passing by Urban, Suburban, or Rural―One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―One Year After Intervention―Hispanic/Latino Female, by Urban, Suburban, or Rural | B – Change in Percent of AP Science Exam Passing―One Year After Intervention―Hispanic/Latino Female, by Urban, Suburban, or Rural |
| Scatterplot showing percentage point change of any AP exam passers  on y-axis for Hispanic/Latino females and urban, suburban, or rural on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science exam passers  on y-axis for Hispanic/Latino females and urban, suburban, or rural on the x-axis, one year after intervention. |

**Figure C.17.2**

*Hispanic/Latino Female AP Exam Passing by Urban, Suburban, or Rural―Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―Three Years After Intervention―Hispanic/Latino Female, by Urban, Suburban, or Rural | D – Change in Percent of AP Science Exam Passing―Three Years After Intervention―Hispanic/Latino Female, by Urban, Suburban, or Rural |
| Scatterplot showing percentage point change of any AP exam passers  on y-axis for Hispanic/Latino females and urban, suburban, or rural on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam passers  on y-axis for Hispanic/Latino females and urban, suburban, or rural on the x-axis, three years after intervention. |

**Figure C.17.3**

*Hispanic/Latino Female AP Exam Passing by Percent Takers Before Intervention―One Year After Intervention*

|  |  |
| --- | --- |
| A – Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―One Year After Intervention―Hispanic/Latino Female, by Percent Passers Before Intervention | B – Change in Percent of AP Science Exam Passing―One Year After Intervention―Hispanic/Latino Female, by Percent Passers Before Intervention |
| Scatterplot showing percentage point change of any AP exam passers  on y-axis for Hispanic/Latino females and percent takers before intervention on the x-axis, one year after intervention. | Scatterplot showing percentage point change of AP science exam passers  on y-axis for Hispanic/Latino females and percent takers before intervention on the x-axis, one year after intervention. |

**Figure C.17.3**

*Hispanic/Latino Female AP Exam Passing by Percent Takers Before Intervention―Three Years After Intervention*

|  |  |
| --- | --- |
| C – Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―Three Years After Intervention―Hispanic/Latino Female, by Percent Passers Before Intervention | D – Change in Percent of AP Science Exam Passing―Three Years After Intervention―Hispanic/Latino Female, by Percent Passers Before Intervention |
| Scatterplot showing percentage point change of any AP exam passers  on y-axis for Hispanic/Latino females and percent takers before intervention on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam passers  on y-axis for Hispanic/Latino females and percent takers before intervention on the x-axis, three years after intervention. |

**Figure C.17.4**

*Hispanic/Latino Female AP Exam Passing by, Percent of Teachers Attending One or More APSI―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―Three Years After Intervention―Hispanic/Latino Female, by Percent of Teachers Attending One or More APSI | B - Change in Percent of AP Science Exam Passing―Three Years After Intervention―Hispanic/Latino Female, by Percent of Teachers Attending One or More APSI |
| Scatterplot showing percentage point change of any AP exam passers  on y-axis for Hispanic/Latino females and percent of teachers attending one or more APSI on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam passers  on y-axis for Hispanic/Latino females and percent of teachers attending one or more APSI on the x-axis, three years after intervention. |

**Figure C.17.5**

*Hispanic/Latino Female AP Exam Passing by Percent of Teachers Attending One or More APSI and Retained―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―Three Years After Intervention―Hispanic/Latino Female, by Percent of Teachers Attending One or More APSI and Retained | B - Change in Percent of AP Science Exam Passing―Three Years After Intervention―Hispanic/Latino Female, by Percent of Teachers Attending One or More APSI and Retained |
| Scatterplot showing percentage point change of any AP exam passers on Y-axis for Hispanic/Latino females and percent of teachers attending one or more APSI and retained on the x-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam passers on Y-axis for Hispanic/Latino females and percent of teachers attending one or more APSI and retained on the X-axis, three years after intervention. |

**Figure C.17.6**

*Hispanic/Latino Female AP Exam Passing by Percent of Teachers Who Are Teachers of Color―Three Years After Intervention*

|  |  |
| --- | --- |
| A - Change in Percent of Any (ELA, Math, or Science) AP Exam Passing―Three Years After Intervention―Hispanic/Latino Female, by Percent of Teachers Who Are Teachers of Color | B - Change in Percent of AP Science Exam Passing―Three Years After Intervention―Hispanic/Latino Female, by Percent of Teachers Who Are Teachers of Color |
| Scatterplot showing percentage point change of any AP exam passers on Y-axis for Hispanic/Latino females and percent of teachers who are teachers of color on the X-axis, three years after intervention. | Scatterplot showing percentage point change of AP science exam passers on Y-axis for Hispanic/Latino females and percent of teachers who are teachers of color on the X-axis, three years after intervention. |

1. Analyses summarized in the Year 8 report were subject to limitations, and results should be interpreted with caution. Please see the Year 8 report for further details. [↑](#footnote-ref-2)
2. Year 8 key findings have been reordered to prioritize those most relevant to the current research questions, with a focus on students from historically marginalized communities. [↑](#footnote-ref-3)
3. Taking (or passing) one ELA, math, or science AP course was counted as taking (or passing) one AP course. [↑](#footnote-ref-4)
4. Year 8 key findings have been reordered to prioritize those most relevant to the current research questions, with a focus on students from historically marginalized communities. [↑](#footnote-ref-5)
5. Increasing participation and performance in English Language Arts (ELA) AP courses and AP exams is not a stated goal of the project. However, increasing participation and performance in ELA AP courses and exams is frequently reflected as a goal of the program in practice. [↑](#footnote-ref-6)
6. The Year 8 evaluation resulted in a total of five reports addressing AP course availability, AP course taking and passing (descriptive and analysis), and AP exam taking and passing (descriptive and analysis). [↑](#footnote-ref-7)
7. The AP Summer Institute (APSI) is a five-day training program provided by Mass Insight. This comprehensive, content-focused professional development is offered to all AP teachers to attend twice during the three years the school is in core status. Each training focuses on an AP course, to help teachers develop instructional approaches that align with the goals of AP and to identify the tasks and materials for which students might need more preparation. Instructors also share best practices and model lessons (see also the Year 7 report). [↑](#footnote-ref-8)
8. Data from the 2019–20, 2020–21, and 2021–22 school years were not included for two reasons: (1) Year 11 analysis is intended to be an extension of the Year 9 and Year 10 analyses, which were restricted to SY11 to SY19, and (2) school years more current than SY19 overlapped with COVID and resulting alternate class delivery and learning solutions. As such, the data may not be comparable for this evaluation’s purposes. [↑](#footnote-ref-9)
9. To be considered a course taker, a student must have enrolled in one or more ELA, math, or science AP courses. As the AP STEM and English program aims to increase the proportion of students enrolling in AP courses, the percentage of AP STEM and English course takers was calculated using the total number of students enrolled in 9th–12th grade at the school as the denominator—as opposed to using the total number of students enrolled in AP courses. [↑](#footnote-ref-10)
10. To be considered a course passer, a student must have (1) completed the course, (2) earned credit, and (3) received a passing letter or numeric grade within the course. [↑](#footnote-ref-11)
11. AP course passing rates are calculated based on the number of students enrolled in the school rather than the number of students enrolled in the AP course, since the objective of the quasi-experimental analysis (Year 8) was to determine if the *overall rate of AP course passing* had changed more at participating schools than at similar non-participating schools, and not to determine if the *rate of passing among course takers* had changed more at participating schools than at similar non-participating schools. Similarly, AP exam passing rates are calculated based on the number of students enrolled in the school rather than the number of students taking the AP exam. [↑](#footnote-ref-12)
12. To be considered an exam passer, a student must have scored a three or better on at least one of their AP ELA, math, or science exams. [↑](#footnote-ref-13)
13. Percent teachers who attended at least one APSI training was calculated by taking the total number of teachers who attended at least one APSI training in a given AP content area during the school’s three years of core status, and then dividing that by the total number of teachers in a given AP content area during the third year of the school’s core status. [↑](#footnote-ref-14)
14. Percent teachers who attended at least one APSI training and were retained was calculated by taking the total number of teachers who attended at least one APSI training in a given AP content area *and* who were retained three years after the last year of the school’s core status, and then dividing that by the total number of teachers who had attended at least one APSI training in a given content area. [↑](#footnote-ref-15)
15. Percent AP teachers who are teachers of color was calculated by taking the total number of AP teachers who are teachers of color in a given AP content area during the school’s third year of core status, and then dividing that by the total number of all AP teachers in a given AP content area during the school’s third year of core status. [↑](#footnote-ref-16)
16. <https://nces.ed.gov/programs/maped/LocaleLookup/> [↑](#footnote-ref-17)
17. For reporting student information, a minimum *n* of 10 is required by DESE. See DESE (2022, November). *Researcher’s guide to Massachusetts state education data*, Office of Planning and Research, <https://www.doe.mass.edu/research/researchers-guide.docx>, p. 9. [↑](#footnote-ref-18)
18. Range refers to the range of the box-and-whiskers plots specifically and does not include the outliers. [↑](#footnote-ref-19)
19. Data has not been examined for the concurrence of non-urban schools, students who are white, and low percentages of AP teachers who are teachers of color. [↑](#footnote-ref-20)