

National Math and Science AP Program



Leaders in American business, education and science joined forces in 2007 to create the National Math and Science Initiative (NMSI), a non-profit organization dedicated to transforming education in the United States so that we can be a world leader in STEM.

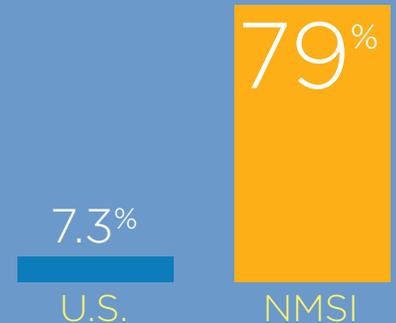
The NMSI Difference for High Schools

- Administrator focus – goals that set a high bar
- Teacher training and support – grades 3-12 to ensure increased rigor that is aligned to Common Core and college readiness
- Accountability – ensuring every dollar invested improves student outcomes
- More time on task for students – after school and Saturday study sessions
- Rewards for success – incentives for both teachers and students
- Vertical Teams – align instruction from 6th grade to 12th grade AP for student success

Student success comes from great teaching of rigorous content which builds student confidence and proves that they can handle college preparatory courses.

Impact

IMMEDIATE:



INCREASE IN THE FIRST YEAR
11X TIMES THE NATIONAL AVERAGE

PROVEN:



INCREASE OVER 3 YEARS
6X TIMES THE NATIONAL AVERAGE

COST EFFECTIVE:



PER STUDENT PER YEAR

“Many people often overlook students such as myself since I come from a lower socioeconomic background/single parent household. Through this program I saw my standardized test scores improve from 68th percentile to 97th percentile. And my math and science score rose to the 99th percentile.... The AP curriculum has more than prepared me for my current college course work. I gained credit hours, the work ethic needed to do well, confidence in my intellect, and as a result, have made the Dean’s list in college.”

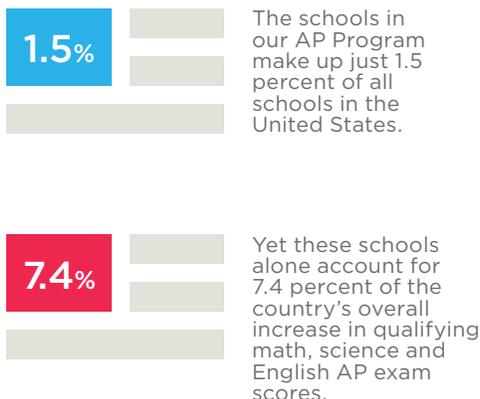
- **Rudy Davis, former AP student at Minor High School in Alabama** (Davis was offered more than two million dollars in college scholarships and is majoring in biomedical sciences at Auburn University.)

In 2012

Over 450 high schools in 18 states participated in the NMSI AP program.

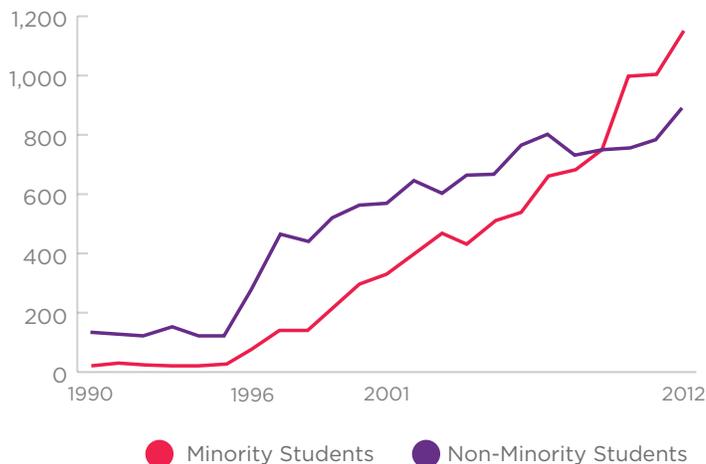
More than 10,000 teachers received NMSI's 3-12 teacher training focused on college readiness and common core preparation.

NMSI's program to help students from military families expanded to over 50 schools nationwide.



Closing the Gap

NMSI is increasing the performance of all students and closing the achievement gap for underrepresented groups. This chart shows the increases in qualifying scores for African American and Hispanic students along with non-minority students at the original ten DISD AP schools.



Maximum Impact - Minimal Cost

Partnering with the National Math and Science Initiative's AP program will increase college readiness, decrease remediation and associated costs, increase STEM graduates and provide a workforce to improve America's economy.

Advanced Placement and AP are registered trademarks of the College Board.

"The NMSI program has had a profound effect on my students' scores and enrollment as well. Just in one year of participating in the program, my students' number of qualifying scores on the AP exam more than doubled. Following this achievement, enrollment for this year doubled. Additionally, I found that my students seemed more connected and more excited about chemistry while participating in the NMSI program."

- Lauren Meyer, AP Chemistry Teacher, Woodbridge High School in Virginia

America's STEM Workforce Issues

Only 57% of African-American students who enter 9th grade graduate in four years and only 42% of those entering college graduate within six years.

Only 10% of the degrees earned in the U.S. are in STEM fields.

52% of students entering two-year colleges enroll in remediation and less than 10% of those graduate in three years.

20% of students entering four-year colleges enroll in remediation and less than a third of those graduate in six years.

Why AP?

Only 28% of students who take just one AP class need remediation compared to over 68% remediation rates for students with no AP.

There is a 31% difference in earning a degree between those who pass at least one AP exam and those who do not.

The earnings differential for those attaining a degree means that investing in NMSI's AP program provides a substantial return on investment.