



The Business Community in Collaboration with Model Schools of Education

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ExxonMobil Foundation K-12 Education Programs

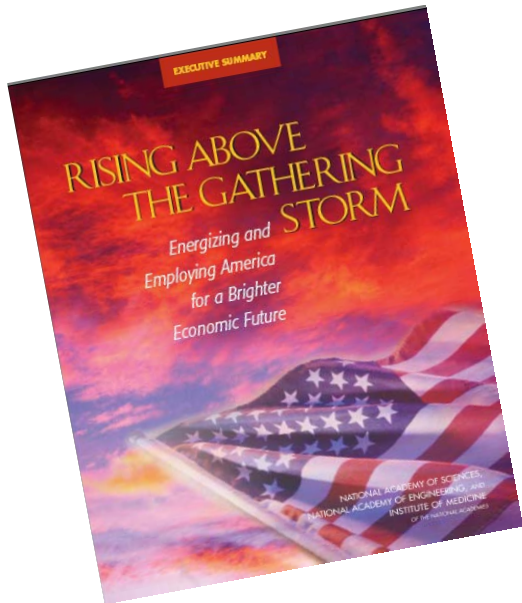
Summary

- **Annual Program Contributions:** \$12-15 million (ex: NMSI)
- **Geographic Coverage:** Mostly cities/regions where ExxonMobil operates.
- **Major Program Elements:** Teacher education, recruitment and professional development; various other programs to motivate and encourage students; support locally proven models to attract students to math and science.
- **Academic Focus:** K-12 Math and Science
- **Corporate Reputation:** Positive recognition reflecting program scope, focus on math and science, and years of continuity.

Why does ExxonMobil support the National Math and Science Initiative (NMSI)?

Addresses a Critical Need

The U.S. faces a significant challenge that threatens both our international competitiveness and national security – the erosion of our scientific and technological leadership. Future U.S. economic competitiveness rests on improving performance in math and science education.



Rising Above the Gathering Storm provides tangible recommendations to address the growing crisis

- A committee of 20 national leaders provided recommendations in the *Rising Above The Gathering Storm Report*
- Their highest priority goal: Dramatically improve K-12 math and science education nationally
- Recommended actions:
 - ✓ Produce more, and more effective, math and science teachers
 - ✓ Strengthen the skills of existing teachers through training
 - ✓ Enlarge the pipeline of students with the desire and preparation to pursue science, technology, engineering, and mathematics at the undergraduate level and beyond

NMSI Board of Directors

- **Tom Luce** – NMSI Chief Executive Officer, former Assistant Secretary, U.S. Department of Education
- **Bruce Alberts** – Former President of the National Academy of Sciences
- **Norm Augustine** – Former Chairman and Chief Executive Officer, Lockheed Martin Corporation
- **Gov. Gaston Caperton** – President, College Board
- **Steven Chu** – Director of the Lawrence Berkeley National Laboratory
- **Edward Copley** – President and CEO, O'Donnell Foundation
- **Roger A. Enrico** – Chairman of Dreamworks Animation SKG and former Chairman and Chief Executive Officer, PepsiCo
- **Peter T. Flawn** – President Emeritus, University of Texas
- **Nancy Grasmick** – Superintendent, Maryland Department of Education
- **Bernard Harris, Jr., MD** – President and Founder, The Harris Foundation, Inc.
- **Susan Hockfield** – President, Massachusetts Institute of Technology
- **Diana Natalicio** – President, University of Texas at El Paso
- **Peter O'Donnell, Jr.** – Chairman, O'Donnell Foundation
- **Sally Ride** – President and CEO Sally Ride Science, Former NASA Astronaut
- **Arthur F. Ryan** – Chairman, CEO, and President, Prudential Financial, Inc.
- **Beverly Daniel Tatum** – President, Spelman College
- **Roy Vagelos, MD** – Former Chairman and CEO, Merck & Co., Inc.
- **Charles M. Vest** – President Emeritus, Massachusetts Institute of Technology

The NMSI approach brings best practices in management to the education sector

NMSI Approach

- Set clear, strategic goals that address a significant and well-defined issue.
- Do what works – scale programs with proven results.
- Run a competitive and robust process for selecting grantees
- Operates as a strategic holding company – monitor implementation and provide ongoing support.
- Ensure long-term sustainability – require both an increasing financial match and increasing scale over the course of the grant period.
- Measure results using clear and objective criteria
- Provide partners with opportunities for participation and recognition.

Why does ExxonMobil Support the National Math & Science Initiative?

Once the decision was made to increase support of U.S. math and science education, our alternatives included expanding existing programs or to seek a new approach to scale up effort.

- NMSI, with sufficient funding, can impact millions across country
- Strong Board of Directors and management team
- National reach: 7 states and 13 universities underway in first year
- Rigorous program selection and implementation process and metrics
 - Promoting “systemic” change:
 - + Math/science teacher preparation
 - + Increasing access to AP and promoting participation culture
- Provides branding and recognition opportunities to partners

NMSI is beginning by scaling up two programs with ten years of success

Advanced Placement Training and Incentive Program (APTIP)

Goal:

More students taking and passing AP math, science, and English exams

Hallmarks:

- Rigorous formal and informal training
- More time on task
- Financial incentives
- Lead teachers
- High standards with measurement and accountability

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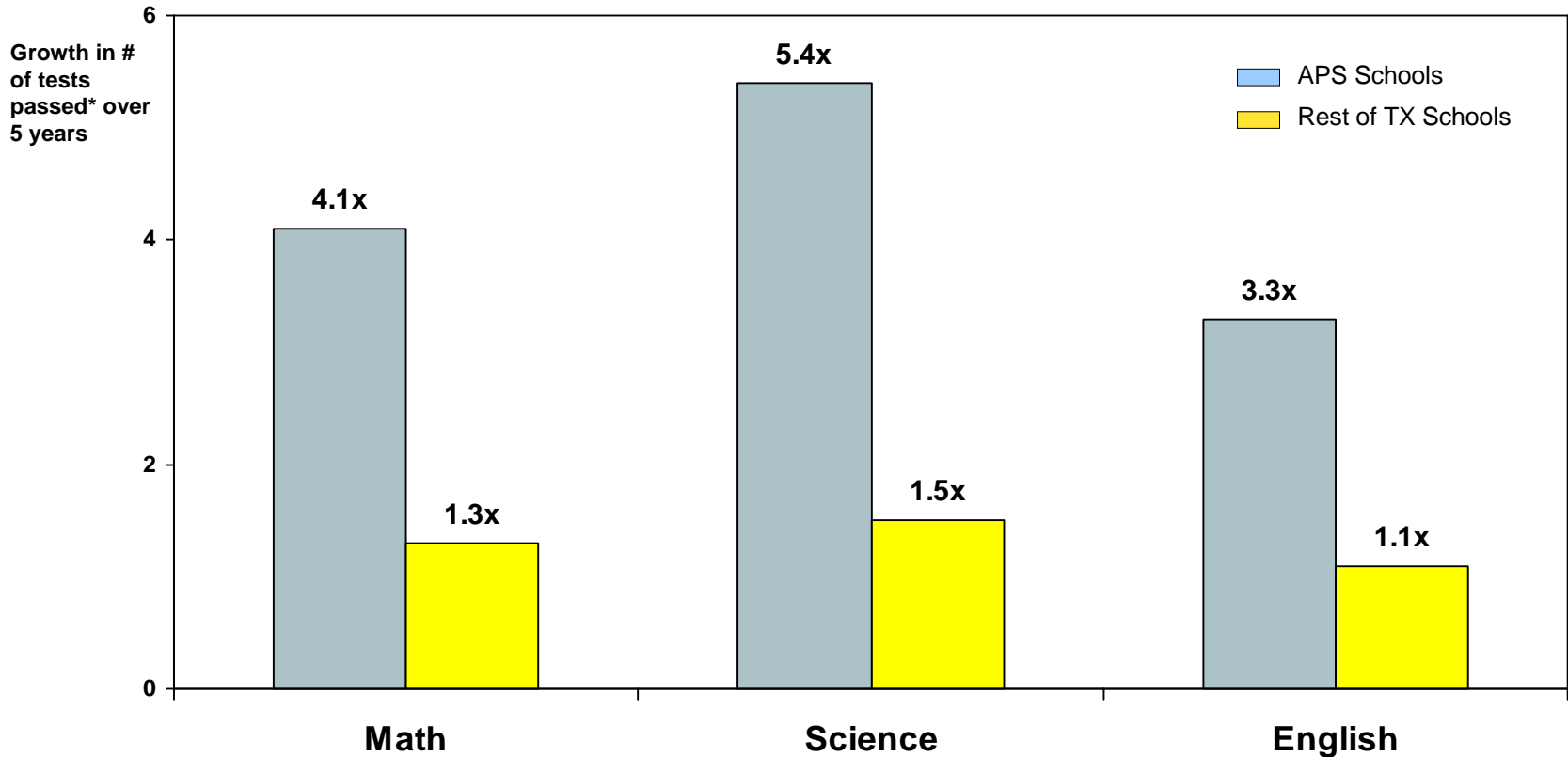
Goal:

Recruit and prepare talented undergraduates for a first choice career as an effective Secondary math or science teacher

Hallmarks:

- A four-year degree plan
- Content requirements equal to at least a major in math or science
- Pedagogy courses taught in the context of math and science
- Early and intensive field experiences
- Support provided by master and mentor teachers

AP Strategies has greatly increased the number of AP passing scores in the schools it serves



Note: *Passing is a score of 3 or higher on the exam.

Source: College Board; APS internal historical data; BCG assumptions and analysis

Applicant interest was high and proposals were carefully evaluated to select grantees

AP Training and Incentive Program

Non-profits in 28 states submitted preliminary proposals



Non-profits in 21 states were invited to submit full proposals



Non-profits in 15 states received site visits for final consideration



Non-profits in 7 states are grantees

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52 universities submitted preliminary proposals



29 universities were invited to submit full proposals



26 universities received phone interviews for final consideration



13 universities in 9 states are grantees

The 7 APTIP and 13 UTeach grantees

AP Training and Incentive Program

- Alabama
 - A+ College Ready
- Arkansas
 - Arkansas Advanced Initiative for Math and Science
- Connecticut
 - Project Opening Doors
- Kentucky
 - Advance Kentucky
- Massachusetts
 - Mass Insight Education
- Virginia
 - Virginia Advanced Studies Strategies
- Washington
 - Mentoring Advanced Programs for Students

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- Arizona
 - Northern Arizona University
- California
 - California, University of @ Berkeley
 - California, University of @ Irvine
- Colorado
 - Colorado, University of @ Boulder
- Florida
 - Florida State University
 - Florida, University of
- Kansas
 - Kansas, University of
- Kentucky
 - Western Kentucky University
- Louisiana
 - Louisiana State University
- Pennsylvania
 - Temple University
- Texas
 - Houston, University of
 - North Texas, University of
 - Texas, University of at Dallas