

Their parents protect our country.
Let's make sure military children receive the
education they deserve.



The National Math and Science Initiative will kick off the first phase of the Initiative for Military Families in fall 2010 for children in America's military families.



The goal of this much-needed initiative is to provide consistent, high-level math and science education in high schools that serve military bases in the United States. For the many children whose parents are serving in the military, this is an opportunity to receive the cutting-edge knowledge and inspiration that will help them succeed in college and in the careers of tomorrow.

Why now?

More than 160,000 young people in the U.S. have a parent currently deployed in active duty combat, and over one million children have had a parent deployed during the last eight years. In total, there are over two million children of active duty, National Guard, and reserve military personnel in public schools in the U.S.

Today's children in military families face greater challenges than ever before:

- Their parents often are deployed for longer periods of time, often a year to 15 months.
- In some military families, both parents are serving in the military.
- Repeated combat tours have resulted in an increased divorce rate in military families as well as more post-traumatic stress problems and more injuries that require hospitalization of active duty personnel. This often forces military children to grow up without one or both parents for significant portions of their childhood.
- Children often attend a series of schools in different districts and states as their parents are transferred from base to base. As a result, the quality of their schooling and access to rigorous college-level courses varies widely.

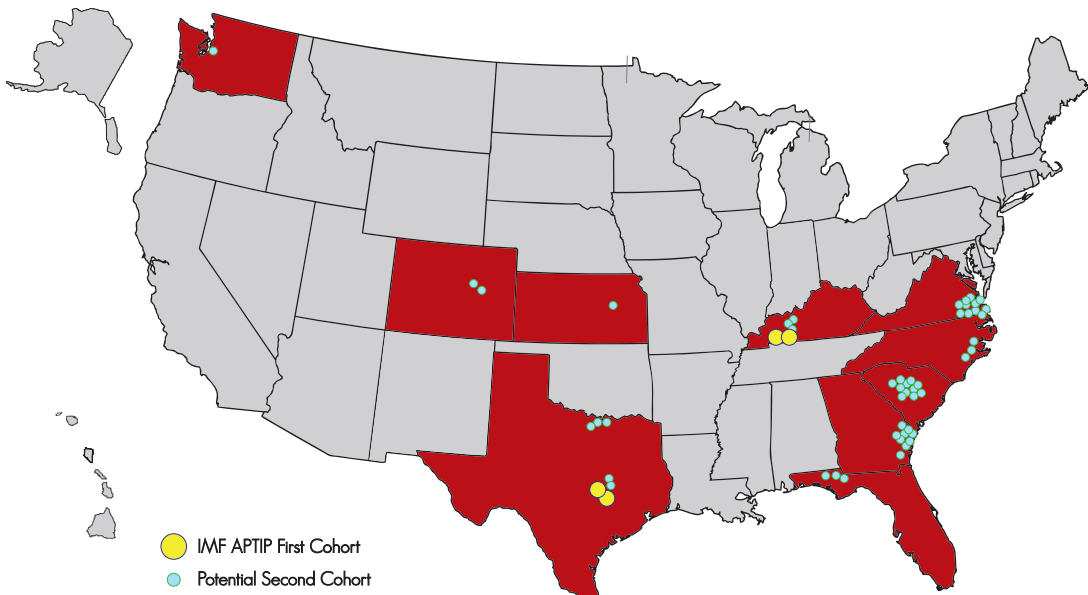
Providing a consistent, high-quality education will equip and inspire children in military families to succeed in today's high-tech world.



The Initiative for Military Families Can Help

This fall, the National Math and Science Initiative will launch the first phase of the Initiative for Military Families in four public school districts in collaboration with Lockheed Martin Corporation's *Engineers in the Classroom* program and the Military Child Education Coalition.

The first high schools to benefit from the initiative are in Fort Campbell in Kentucky and Fort Hood in Texas. It is expected that with additional future funding, the program eventually will expand to include as many as 100 public high schools on or near military bases.



“Our future success, and the future technological success of our nation, is dependent on a pipeline of highly trained, highly capable technical talent. This project will help ensure that children of service members who are guardians of our freedom have access to the best education resources possible.”

– Dr. Ray O. Johnson, Lockheed Martin Senior Vice President and Chief Technology Officer

Providing Knowledge and Skills for the Future

Through the Initiative for Military Families, NMSI's highly acclaimed "Advanced Placement Training and Incentive Program" (APTIP) will be implemented in participating high schools so that more students from military families can benefit from the high-caliber AP curriculum.

APTIP increases dramatically the performance of high school students in rigorous college-level courses in math, science, and English.

In the first cohort of schools participating in APTIP in six states, there was a **52 percent increase** in AP exams passed in math, science and English last year, which is more than **nine times the national average**.

In addition, there was a **72 percent increase** in AP exams passed in math, science and English by African-American and Hispanic students, compared to 13 percent nationally.

There also was a **47.6 percent increase** in AP exams passed in math and science by female students, who are traditionally under-represented in math and science. The national increase was only 4.4 percent.

This "training + incentives" approach has proven to be highly successful by:

- providing intensive content training for AP teachers
- providing compensation for teachers for extra work and producing outstanding results
- requiring more time on task for mentoring and tutoring students
- providing incentives for students to master the more rigorous AP material.



This approach offers multiple benefits:

- Achieving a passing grade on the national AP exam qualifies students for college credit and increases their chances of success in college. Experience has shown that even students who do not receive a passing score on the AP exams benefit from the exposure to college-level curriculum.
- Because the AP curriculum is standardized, the quality of the coursework from district to district is more uniform, reducing the potential of inconsistent quality between school districts where military personnel are stationed.
- Eighty percent of high-paying jobs in the future will require more math and science skills. The APTIP program will inspire students and give them the educational foundation to succeed in a career in the increasingly competitive global marketplace or in the military, where STEM (science, technology, engineering, and math) skills play a vital role.

“The Military Child Education Coalition is delighted to work with NMSI on this important effort...We know from MCEC’s research that military-connected students can experience barriers to high performance in math and science either because of gaps in skills and knowledge or because of a lack of awareness about the critical value of courses with high quality, national standards such as AP. NMSI’s program will make a difference for secondary school students with one or more parents serving our nation. We are deeply grateful.”

– Dr. Mary Keller, President and CEO of the Military Child Education Coalition

The Initiative for Military Families is supported by dedicated partners

About NMSI

The National Math and Science Initiative (NMSI) was launched in 2007 by top leaders in business, education, and science to reverse the troubling decline in American math and science education. NMSI is dedicated to dramatically impacting the U.S. public school system by bringing best practices to education and replicating programs nationally that have documented success in math and science education. Inaugural funding for NMSI was provided by the Exxon Mobil Corporation, the Bill & Melinda Gates Foundation and the Michael & Susan Dell Foundation.

About Lockheed Martin

Headquartered in Bethesda, Md., Lockheed Martin is a global security company that employs about 136,000 people worldwide and is principally engaged in the research, design, development, manufacture, integration and sustainment of advanced technology systems, products and services. The Corporation reported 2009 sales of \$45.2 billion. Lockheed's funding for the Initiative for Military Families is part of its K-12 outreach initiative, Engineers in the Classroom, which supplements school STEM curriculums with hands-on learning activities that give students and Lockheed Martin engineers a chance to work together.

About the Military Child Education Coalition

MCEC was established in 1998 to help military-connected children meet the challenges that frequent transitions pose during their educational years. The coalition provides transition services for students, parent workshops, information resources, and counseling resources to help military children and families thrive in challenging times.

More can be done

You can help by supporting the expansion of the Initiative for Military Families to additional public high schools.

By 2011, we hope to serve over 30,000 students in 46 public high schools, in 10 states. By building the program year-by-year, the Initiative for Military Families can be expanded to 100 high schools, ensuring that a high percentage of military families will be served.

The program costs only \$100,000 a year per school.

Help us multiply this success across the nation. You can get involved by providing a donation to the Initiative for Military Families. Financial support from corporations, foundations, and individuals is needed to provide quality math and science education for the children of families in the military.

Contact:
National Math and Science Initiative
325 North Saint Paul Street, Suite 2900
Dallas, Texas 75201
214 665-2500
info@nationalmathandscience.org





Equipping and Inspiring a New Generation

"This important initiative will help our country's military families by providing consistent, high-level education in the schools serving their children. This will ensure that students from military families receive the skills they will need to succeed in today's highly competitive, highly technical world."

— Tom Luce, CEO, National Math and Science Initiative

For more information, go to
www.nationalmathandscience.org/initiativemilitaryfamilies

