

PROJECT LEAD THE WAY

PLTW.



Project Lead The Way is the nation's leading provider of science, technology, engineering, and math (STEM) curriculum for middle and high school students.

Our mission is to **prepare**
students for the **global economy.**

Why PLTW? Why now?

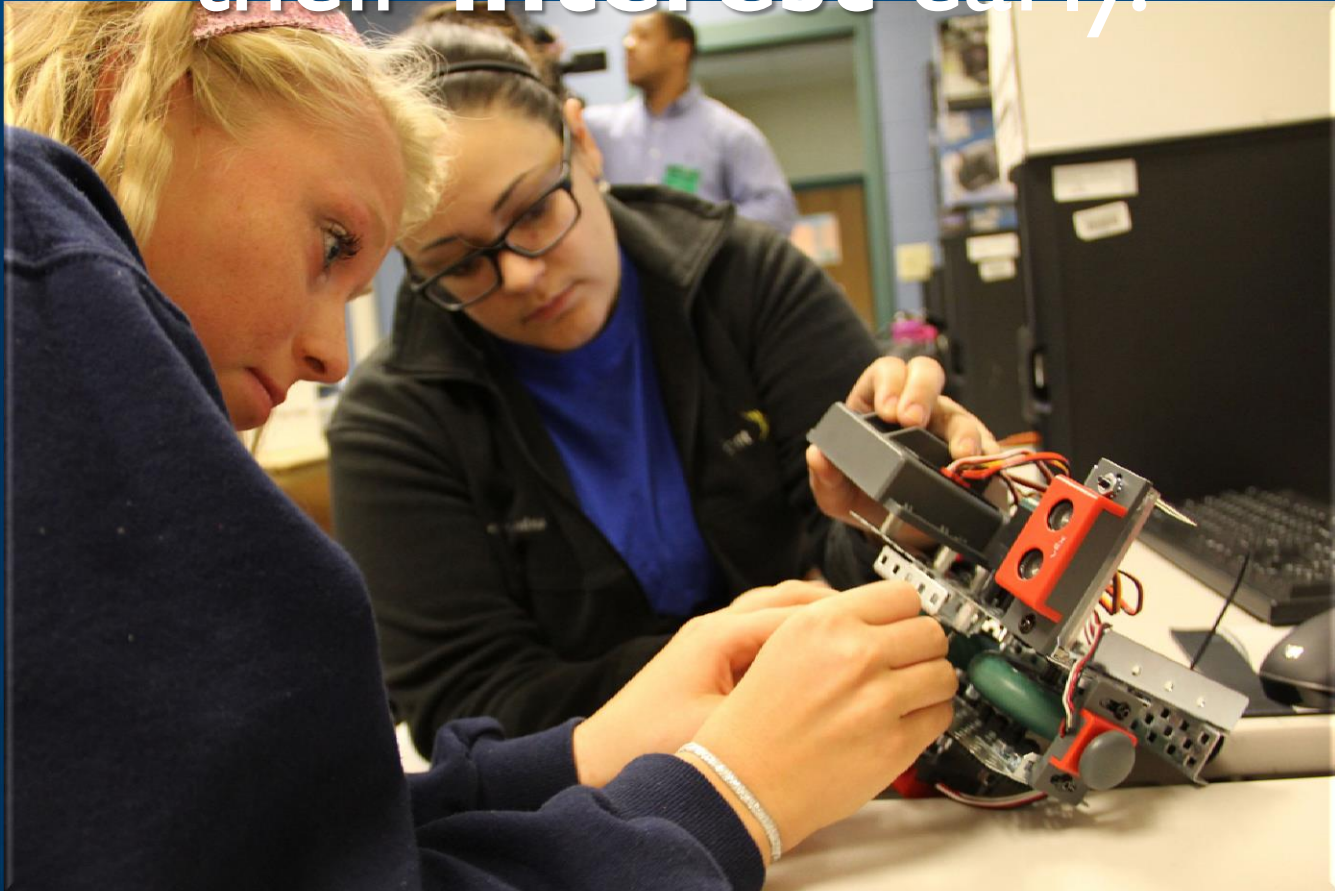
The United States ranks 17th in science achievement; 25th in math ability out of 65 countries.¹

By 2018...

- STEM jobs will grow by 17 percent²
- 1.2 million STEM jobs will go unfilled³

How do we prepare students to have the **right skills** and the **right interests** to fill those 1.2 million jobs and **close the United States' skills gap?**

Engage their minds and
their interest early.



...through rigorous, relevant learning.



It's what Project Lead The Way does on a regular basis.

We engage students' minds while inspiring their interest in STEM subjects through hands-on learning and real-world problem solving.

Here's how.

Preparing Students For the Global Economy

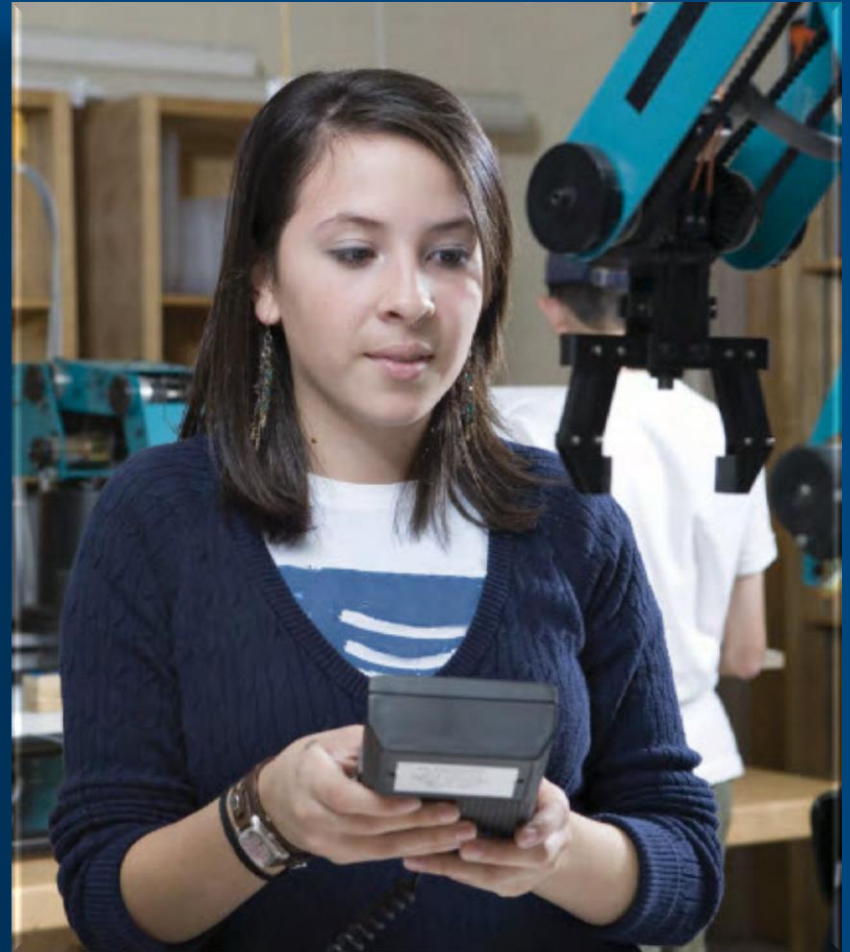


- LEADERSHIP • INNOVATION
- CONTINUOUS IMPROVEMENT
- ACCOUNTABILITY

World-Class Curriculum

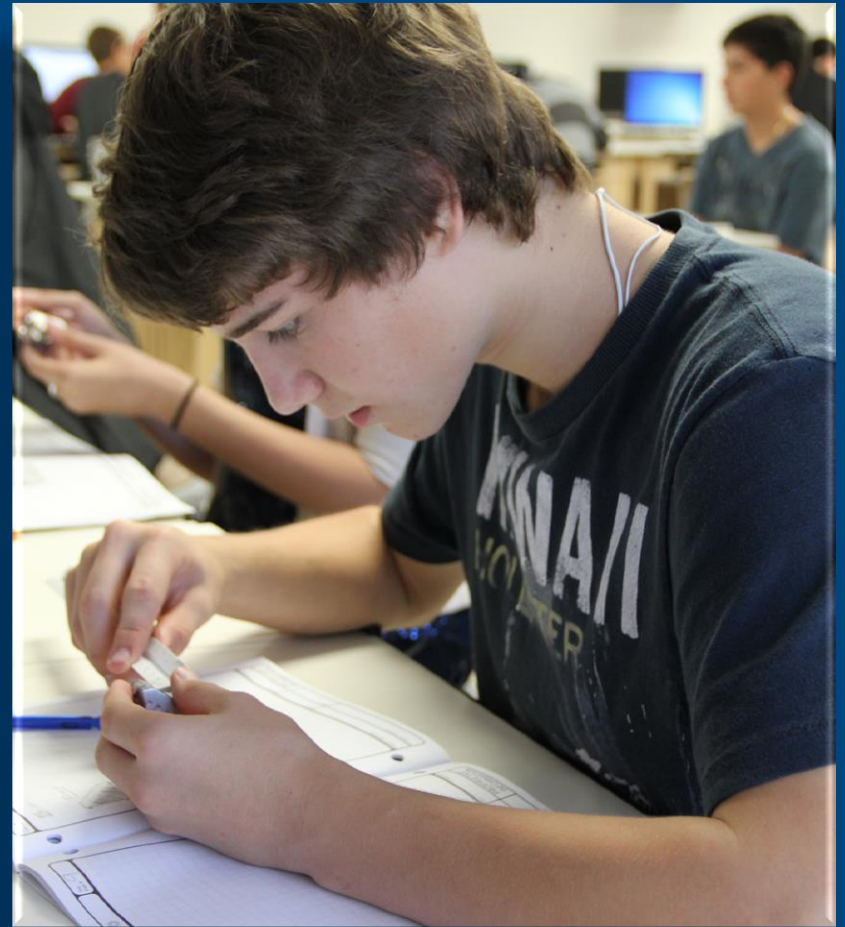
Our curriculum is designed and consistently reviewed and improved by:

- PLTW teachers
- University educators
- Industry experts
- School administrators



World-Class Curriculum

- All PLTW curriculum is activities-, project-, problem-based.
- PLTW curriculum aligns with Common Core and Next Generation Science Standards.



PLTW's curriculum creates a **classroom experience unlike any other.**



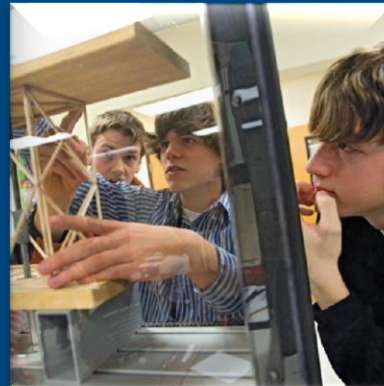
World Class-Curriculum

**Elementary
School
Program**
*Launching in
2014*

**Gateway To
Technology**

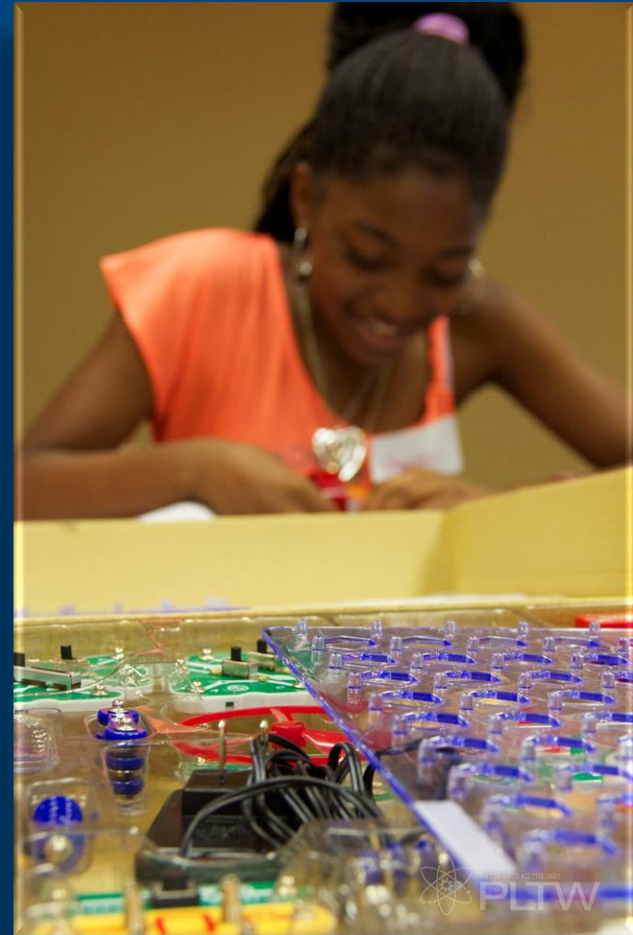
**Pathway To
Engineering &
Biomedical
Sciences**

**College,
career,
and
beyond**



Gateway To Technology

Challenging, inspiring, and flexible, GTT engages students' natural curiosity and imagination through creative problem solving.



Gateway To Technology

Independent units:

- Design and Modeling
- Automation and Robotics
- Energy and Environment
- Flight and Space
- Green Architecture
- Science of Technology
- Magic of Electrons
- Medical Detectives



Pathway To Engineering

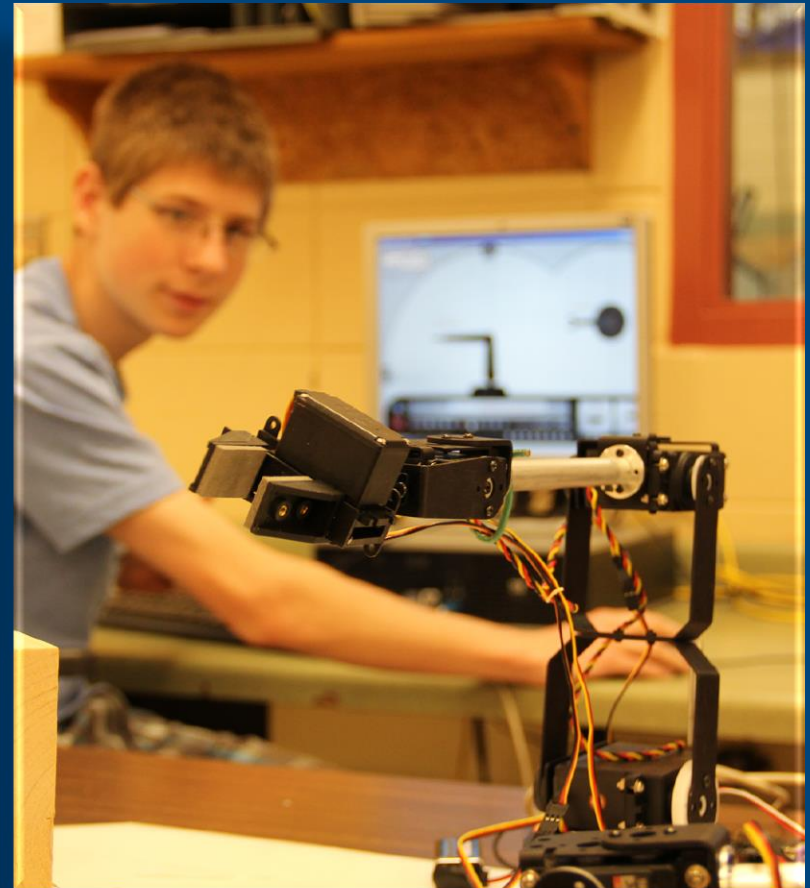
Collaborative, rigorous, and relevant, PTE students solve open-ended problems; learn and apply the engineering design process; and develop teamwork, communication, and critical thinking skills.



Pathway To Engineering

Courses:

- Introduction to Engineering Design
- Principles of Engineering
- Digital Electronics
- Aerospace Engineering
- Biotechnical Engineering
- Civil Engineering and Architecture
- Computer Integrated Manufacturing
- Engineering Design and Development
- **New in 2014: Computer Science and Software Engineering*



Biomedical Sciences

Students play the roles of biomedical professionals as they investigate and study the concepts of human medicine, physiology, genetics, microbiology, and public health.



Biomedical Sciences

Courses:

- Principles of the Biomedical Sciences
- Human Body Systems
- Medical Interventions
- Biomedical Innovations



PLTW elementary

Students decide as early as second and third grade whether they like, and think they are good at, math and science.

We need to reach them first.

PLTW elementary

Topic-based modules engage students in design problems, collaboration, analysis, problem solving, and computational thinking.



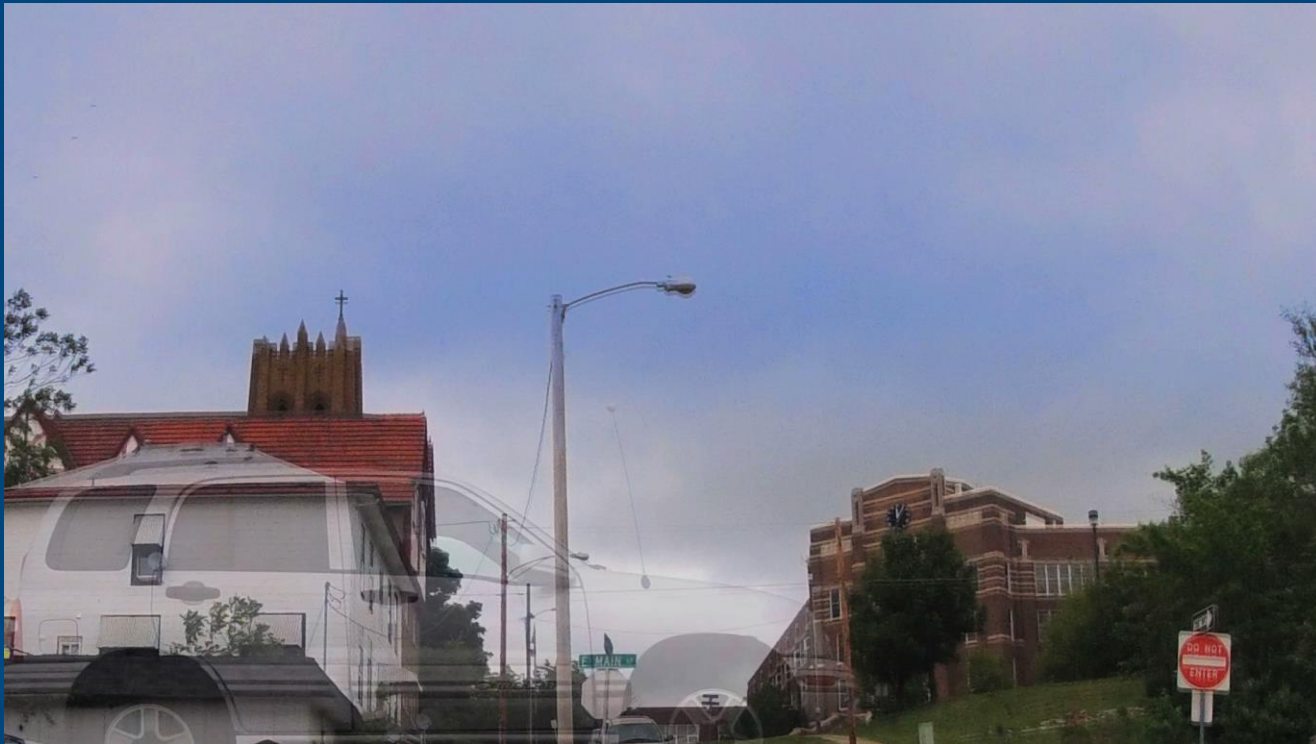
High-quality professional development prepares teachers to get students engaged in STEM.



High-quality professional development for teachers

- Three phases:
 - Readiness training
 - Core training
 - Ongoing training
- Conducted in partnership with more than 51 colleges and universities across the country.
- More than 3,500 teachers trained in summer 2013.

PLTW partners with leading corporation, philanthropic organizations, and educational institutions.



An engaged network of partners



So, does it work?

YES.

PLTW students achieve **significantly higher scores** in reading, mathematics, and science, and in some cases, have the opportunity to **receive college credit.**

So, does it work?

PLTW alumni study engineering and technology in **greater numbers than the national average**, with a **higher retention rate** in college engineering, science, and related programs than non-PLTW students.



So, does it work?

“We need to cultivate, nurture that (STEM) interest early, and that’s what Project Lead The Way does...It does it with the nuts and bolts of teaching.”

-William Bennett, U.S. Secretary of Education, 1985-1988

“We’ve been very, **very impressed** by both the **quality of the materials and the training** they’re able to provide to educators.”

—Tim Fliss, Vice President of Human Resources, Bemis Company

“If I had to say what **got our name out there** as a school, it would be Project Lead The Way. I don’t understand why schools would not use Project Lead The Way. The **curriculum** is there. The **training** is there. It’s **extensive** It’s **detailed**. The **success** we’ve had here at Toppenish is in large part due to **our relationship with Project Lead The Way**.”

-Trevor Greene, principal, Toppenish High School, Washington

We continue to improve. Every day.

PLTW follows a **continuous improvement model**.

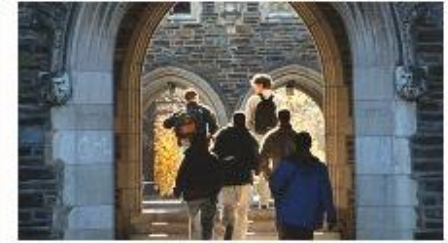
Teachers can **expect** to see **improvements** in course material **each year**.

New, **future-reaching** programs and delivery models are constantly in development.

America's STEM Solution

Over **6,500** programs

More than **5,500** schools



more than **13,000** teachers trained

100s of partners

Be a part of the solution.

Bring PLTW to your school or community.

Mentor PLTW students.

Join a school partnership team.

Financially **support** PLTW program implementation.

Voice your endorsement of PLTW.

Let's continue the conversation.

For more information visit pltw.org or contact school support at SchoolSupport@pltw.org.



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TeamPLTW



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Way