

**Project Lead The Way (PLTW)** is the nation's leading provider of K-12 STEM programs. PLTW's world-class, activity-, project-, and problem-based curriculum and high-quality teacher professional development, combined with an engaged network of educators and corporate partners, help students develop the skills they need to be successful in post-secondary education and beyond.

### WORLD-CLASS CURRICULUM

PLTW's rigorous and relevant curriculum is collaboratively developed and consistently reviewed and improved by PLTW staff, teachers, university educators, industry experts, and school administrators. It leverages an innovative, project-based approach that fosters collaboration and builds critical-thinking skills. Over 6,500 schools in all 50 states and the District of Columbia have adopted one or more PLTW programs of study.

“*Students love this program because they put away the books and paper and get their hands on real projects. They plan, develop, test, and troubleshoot their own creations. They come away with a deeper appreciation of what they are learning.*

- Charlie Franklin, PLTW Instructor, Stratford High School, South Carolina

### HIGH-QUALITY PROFESSIONAL DEVELOPMENT

In 2014, PLTW trained more than 6,000 teachers using its rigorous approach. PLTW's three-phase professional development model focuses on preparing teachers with the professional skills necessary to get students engaged in learning the STEM disciplines and focused on seeking solutions. Training is conducted in partnership with more than 50 colleges, universities, and other institutions.

“*The PLTW Professional Development reinvigorated my career. There is nothing that comes close to the PLTW Core Training.*

- Brent Blackburn, PLTW Master Teacher, Davis School District, Utah

### ENGAGED NETWORK

Solving America's workforce skills gap takes commitment from the public and private sectors. PLTW is creating outstanding partnerships with leading corporations, philanthropic organizations, and educational institutions. These partnerships can take a variety of forms, including school sponsorship and financial support as well as employee engagement. In addition to partnerships with post-secondary institutions, PLTW has alliances with nearly 100 leading corporations like Chevron, Lockheed Martin, Autodesk, and many others.

“*PLTW has the best STEM curriculum for schools in the world. We have examined what other countries have to offer, and there is none better within the scope of my experience. PLTW would not be a partner with Toyota if its curriculum was anything less.*

- Dennis Parker, Toyota North America

# Project Lead The Way | Engaging students through five hands-on programs:



## PLTW Launch | K-5

Studies show that students decide as early as elementary school whether they like, and think they are good at, math and science. PLTW Launch™ is designed to capture students' interest in math and science and spark a lifelong passion. Students use touch technology, robotics, and everyday materials to explore topics such as energy, light and sound, motion and stability, and gravity. With PLTW Launch, students will leave elementary school with a passion for and confidence in the STEM subjects, ready to continue their learning in middle school, high school, and beyond.

## PLTW Gateway | Middle School

Middle school is the perfect time for students to explore and learn that there is more than one way to reach a solution. Through topics like robotics, flight and space, and DNA and crime scene analysis, PLTW Gateway™ students will find their natural curiosity and imagination engaged in creative problem solving. Using the same advanced software and tools as the world's leading companies, students see the application of science, technology, engineering, and math to their everyday lives. PLTW Gateway provides a strong foundation for further STEM learning in high school and beyond.



## PLTW Biomedical Science | High School

PLTW Biomedical Science™ is a rigorous and relevant four-course sequence that allows students to play the roles of biomedical professionals as they investigate and study the concepts of human medicine, physiology, genetics, microbiology, and public health. Students examine the structures and interactions of human body systems and explore the prevention, diagnosis, and treatment of disease, all while working collaboratively to understand and design solutions to the most pressing health challenges of today and the future.

## PLTW Computer Science | High School

PLTW Computer Science™ engages high school students in computational thinking and gets them excited about the possibilities in careers that use computing. As students explore topics like cybersecurity, big data, and artificial intelligence, they see how computing applies in various career fields. Students use professional programming languages to create their own apps, integrate technologies across devices and platforms, develop models and run simulations to communicate ideas in the sciences, and collaborate on software solutions to real-world problems.



## PLTW Engineering | High School

PLTW Engineering™ is more than just another high school engineering program. It is about applying science, technology, engineering, and math to solve complex, open-ended problems in a real-world context. Students focus on the process of defining and solving a problem, not on getting the “right” answer. They learn how to apply STEM knowledge, skills, and habits of mind to make the world a better place through innovation. Through hands-on projects, students explore various engineering disciplines before beginning post-secondary education or careers.

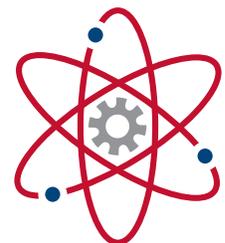
PLTW courses are aligned with Common Core State Standards for Math and English Language Arts, Next Generation Science Standards, and other national and state standards.

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Project Lead The Way

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