





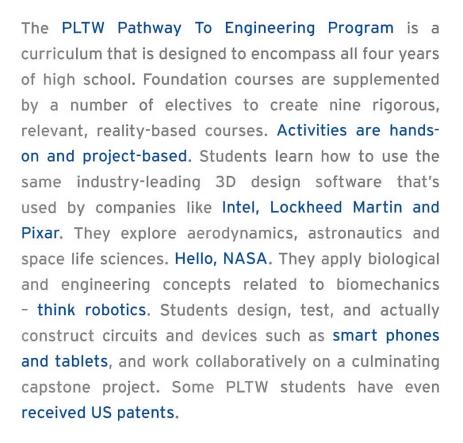
# Igniting Innovation through imagination and learning.

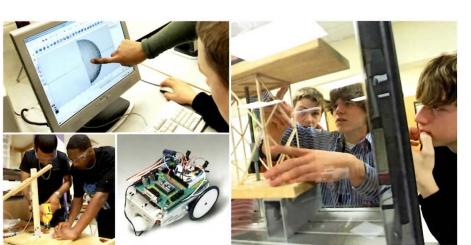
Project Lead The Way (PLTW) prepares students to be the most innovative and productive leaders in science, technology, engineering, and mathematics (STEM) and to make meaningful, pioneering contributions to our world. PLTW partners with middle schools and high schools to provide a rigorous, relevant STEM education. Through an engaging, hands-on curriculum, PLTW encourages the development of problem-solving skills, critical thinking, creative and innovative reasoning, and a love for learning. The PLTW middle and high school STEM education programs give students a brighter future by providing them with a foundation and proven path to college and career success in STEM-related fields. STEM education is at the heart of today's high-tech, high-skill global economy.

## www.pltw.org

For more information contact your school counselor and don't forget to ask about PLTW's Biomedical Sciences Program, tool







## Global Challenges

A new offering that introduces students to STEM fields while they design their own solutions for challenges like clean water and resource sustainability.

### Introduction to Engineering Design

3D computer modeling software; study of the design process.

### Principles Of Engineering

Exploration of technology systems and engineering processes.

### Digital Electronics

Use of computer simulation to learn the logic of electronics.

### Aerospace Engineering

Aerodynamics, astronautics, space-life sciences, and systems engineering.

### Biotechnical Engineering

Biomechanics, genetic engineering, and forensics.

### Civil Engineering & Architecture

Students collaborate on the development of community-based building projects.

### Computer Integrated Manufacturing

Robotics and automated manufacturing; production of 3-D designs.

### Engineering Design & Development

Teams of students, guided by community mentors, research, design, and construct solutions to engineering problems.