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Project Lead the Way (PLTW): A Gateway to STEM Education\*\*

### What is PLTW?

Project Lead the Way (PLTW) is a non-profit organization dedicated to providing K-12 students with access to rigorous and engaging STEM (Science, Technology, Engineering, and Math) curriculum.

### PLTW Curriculum

PLTW offers a variety of courses that cover topics such as:

- **Automation and Robotics:** Students learn about the design, construction, and operation of robots.
- **Computer Science for Innovators and Makers:** Students develop computational thinking skills and explore career pathways in computer technology.
- **Gateway (or Introductory) Courses:** These courses provide foundational knowledge in STEM disciplines.
- **Engineering Design Process:** Students learn the six steps of the engineering design process: define the problem, research, ideate, prototype, test, and iterate.
- **Engineering Essentials:** A comprehensive overview of engineering principles.
- **Digital Electronics:** Students explore electronic systems and digital components.

## Why is PLTW Important?

PLTW prepares students for success in the 21st-century workforce by developing their:

- STEM skills
- Problem-solving abilities
- Critical thinking capabilities
- Innovation and creativity

## PLTW in Engineering

PLTW's Engineering curriculum focuses on:

- **Innovation in Computer Technology:** Explores the latest advancements in computer science and engineering.
- **Computer Science Robotics:** Combines computer programming with robotics design and implementation.
- **Robotics and Technology:** Provides a comprehensive understanding of robotics engineering and technology.

## PLTW Gateway Courses

PLTW Gateway courses serve as an entry point to STEM education, introducing students to:

- **Robotics and Automation Technology:** Fundamental principles of robotics and automation.
- **IED (Introduction to Engineering Design):** Basic concepts of engineering design and problem-solving.
- **PoE (Principles of Engineering):** Exploration of different engineering disciplines.

## Joining PLTW

To join PLTW, students can enroll in courses angeboten through their schools or by contacting the PLTW website at [www.pltw.org](http://www.pltw.org).

## Citing PLTW

When citing PLTW, use the following format:

- PLTW (2023). [Course Title]. Project Lead the Way.

## Role of PLTW in Project-Based Learning

PLTW courses embody the principles of project-based learning, where students work on hands-on projects that integrate multiple disciplines. This approach fosters:

- Collaboration
- Inquiry-based learning
- Critical thinking
- Real-world problem-solving

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