



9-12 4 year-long high school courses



(9-12) 10 year-long high school courses



4 year-long high school courses





43 modules ~12-14 hours each

Focus areas:

Life Science, Physical Science, Earth & Space Science, Biomedical Science, Computer Science, Engineering



PLTW GATEWAY

6-8 10 units ~36-45 hours each

Focus areas:

Biomedical Science, Computer Science, Engineering



PLTW 000 CORRICULUM



PreK Healthy Habits
Living and Nonliving Things
Floating and Sinking
Spatial Sense and Coding

- K Structure and Function: Exploring Design Pushes and Pulls Structure and Function: Human Body Animals and Algorithms Sunlight and Weather Living Things: Needs and Impacts
- 1 Light and Sound Light: Observing Sun, Moon, and Stars Animal Adaptations Animated Storytelling Designs Inspired by Nature
- Materials Science: Properties of Matter Materials Science: Form and Function Grids and Games The Changing Earth Living Things: Diversity of Life
- 3 Stability and Motion: Science of Flight Stability and Motion: Forces and Interactions Variation of Traits Programming Patterns Weather Factors and Hazards Life Cycles and Survival Environmental Changes
- 4 Energy: Collisions
 Energy: Conversions
 Input/Output: Computer Systems
 Input/Output: Human Brain
 Waves and Properties of Light
 Organisms: Structure and Function
 Earth: Past, Present, and Future
 Earth: Human Impact and Natural Disasters
- 5 Robotics and Automation Robotics and Automation: Challenge Infection: Detection Infection: Modeling and Simulation Matter: Properties and Reactions Ecosystems: Flow of Matter and Energy Patterns in the Universe Earth's Water and Interconnected Systems



- Medical Detectives
- App Creators
- Computer Science for Innovators and Makers
- Automation and Robotics
- Design and Modeling
- Energy and the Environment
- Flight and Space
- Green Architecture
- Magic of Electrons
- Science of Technology

Focus Areas

● Computer Science ● Engineering ● Biomedical Science



Computer Science Essentials Cybersecurity Computer Science Principles Computer Science A



Engineering Essentials

Introduction to Engineering Design
Principles of Engineering
Aerospace Engineering
Civil Engineering and Architecture
Computer Integrated Manufacturing
Digital Electronics
Environmental Sustainability
Computer Science Principles
Engineering Design and Development



Principles of Biomedical Science Human Body Systems Medical Interventions Biomedical Innovation

