CCPS

“We’ve got you covered!”
Science, Technology, Engineering, and Mathematics (STEM) in Calvert County Public School

**What is STEM Education?** An approach to teaching and learning that integrates the content and skills of science, technology, engineering, and mathematics.

**Vision:** All students will become critical thinkers and creative, innovative problem solvers.

**Mission:** All students, PreK-12, will engage in foundational STEM education experiences which will enable them to make informed decisions about STEM classes, careers, and the use of STEM in everyday life.
**Elementary School**
- *STEM units in Science grades K-5
- LEGO instructional units in Grade 5
- Engineering is Elementary (EiE) in Grade 5
- After School Activities
  - Math, Engineering, Science and Achievement (MESA)
  - LEGO Robotics
  - Destination Imagination
  - Math Challenge

**Middle School**
- *Computer Literacy
- *Gateway to Technology (GTT)
  - Design and Modeling
  - Energy and the Environment
  - Robotics and Automation
- After School Activities
  - Math, Engineering, Science and Achievement (MESA)
  - LEGO Robotics
  - Math Counts

**High School**
- Foundations of Technology
- Project Lead the Way (PLTW) Engineering
  - Introduction to Engineering (IED)
  - Principals of Engineering (POE)
  - Aerospace Engineering (AE) & Digital Electronics (DE)
  - Capstone – Engineering Design and Development (EDD)
- Project Lead the Way (PTLW) Biomedical
  - Principals of Biomedical Science
  - Human Body Systems
  - Medical Interventions
  - Capstone -Biomedical Innovation
- Project Lead the Way Computer Science (HHS Pilot)
  - Introduction to Computer Science (ICS)
- After School Activities
  - Math, Engineering, Science and Achievement (MESA)
  - VEX Robotics
  - FIRST Robotics
  - Computer Bowl

An asteroid (*) represents courses in which all students enroll.