

ENG DESIGN/DEV PLTW

Course Description

As members of an engineering team, students apply science, technology, and mathematical concepts and skills to solve engineering design problems or to significantly innovate existing products. Students research, develop, test, and analyze designs using criteria such as cost, effectiveness, safety, human factors, and ethics. Long term project development by student teams and regular interaction with and presentations to members of industry are essential components to the success of this course.

Strands

1. Students will follow safety practices.
2. Students will describe a formal engineering design process to address a specific design problem.
3. Functioning as part of a team, students will design a solution to an engineering problem.
4. Students will develop a marketing plan.
5. Students will develop a production plan.

