

PLTW Intro to Engineering Design

Mr. English

**Technology Education
Nottingham High School**

Course Overview:

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects like designing a new toy or improving an existing product. Each PLTW Engineering course engages students in interdisciplinary activities like working with a client to design a home, programming electronic devices or robotic arms, or exploring algae as a biofuel source. These activities not only build knowledge and skills in engineering, but also empower students to develop essential skills such as problem solving, critical and creative thinking, communication, collaboration, and perseverance.

Course Units:

Unit 1- Problem Solving
Unit 2- Assembly Design
Unit 3- Thoughtful Product Design
Unit 4- Making Things Move

Grading:

Classwork _____	30%
Homework _____	10%
Participation _____	30%
Projects _____	30%

All work is due complete and on a timely manner by the due dates supplied at the beginning of each assignment. Work turned in late will be graded accordingly; each day late with result with a lowering of grade 5 points per day. Work turned in one week after original due date will result in a zero.