

Broome High School Engineering



Spartanburg School District 3



2010 Centurion Toy Factory a Success.....See story inside!

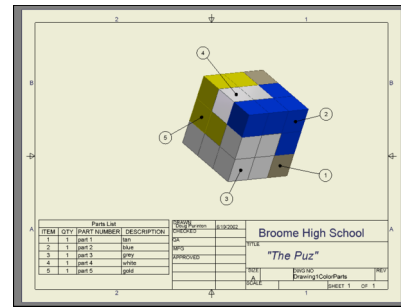
Courses in Engineering

- Introduction to Engineering Design Honors- IED
- Principles of Engineering Honors -POE
- Digital Electronics Honors—DE
- GreenSTEM I + II + III

Introduction to Engineering Design Honors - IED



This course teaches problem-solving skills using a design development process. Models of product solutions are created, analyzed and communicated using solid model computer design software (AutoDesk Inventor) .



Computer Drawing of Cube.



Instructor: Doug Purinton

First Course 9th Grade:

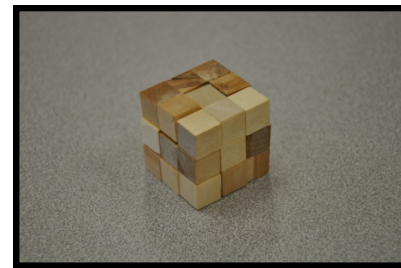
Introduction to Engineering Design—IED

Second Course 10th Grade

Principles of Engineering—POE

Third Course 11-12th Grade

Digital Electronics—DE



Completed Puzzle Cube

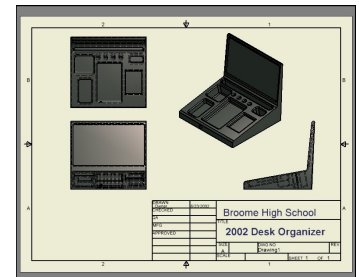
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What is “PROJECT LEAD THE WAY ? “

Project Lead The Way is a national pre-engineering program curriculum. These programs, and GreenSTEM , serve an important role in instilling an interest in engineering and computing in upcoming generations of young people. The goal is to get students thinking

about science and math and to realize those subjects can actually be fun—and to introduce them to STEM careers.



Centurion Toy Company Project



The 2010 Centurion Toy Manufacturing Project was a huge success. IED students designed, built, and packaged the puzzle cubes to be given away as Christmas stocking stuffers at BHS Christmas for the needy Program. Some were sent overseas to service men in Afghanistan and to the White Oak Retirement Home. Students were required to apply for jobs and be interviewed for their positions.

Principles of Engineering—Honors

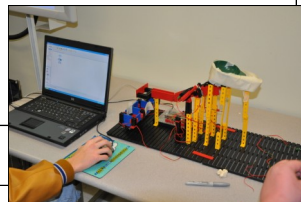
PLTW—Course Two



This is a **hands-on** Pre-Engineering course that will help students understand the field of engineering and technology. We will explore various technology systems and manufacturing processes to help students learn how engineering and technicians use math, science, and technology in an engineering problem solving process to benefit people.

POE

Marble Sorter



Courses:

- GreenSTEM I- Generating Clean Electrons
- GreenSTEM II- Sustainable Conservation
- GreenSTEM III- NEWSee below

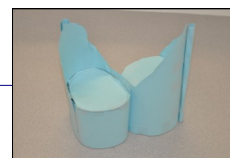
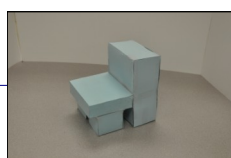
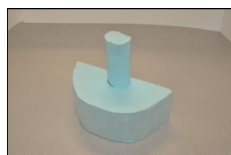
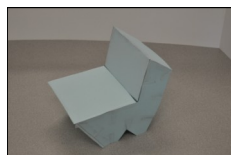
GreenSTEM III— New for 2012

GreenSTEM III kicks off as one of five Statewide Pilot Schools . The course is titled "Green Technician Certification"

- What is Green?
- Wind Turbine Technology
- Solar PV Technology
- Smart Grid Technology
- Energy Auditing Technology
- Technician Certification



The GT-2500 Sustainable Conservation Training Board



**Sign-up for
2012
GreenSTEM-
Courses**
See Guidance Now