

8th Grade Principles of Engineering

Course Description:

Students completing the course will experience manufacturing, construction, communications, EPT (energy, power, and transportation) and coding. Students will learn to apply the design loop to systematically solve problems.

Class Expectations:

- Arrive to class on time prepared with a pencil, eraser and a good attitude ready to learn
- Listen quietly during class demonstrations
- Work quietly during independent and group work
- Hand in projects at assigned times
- RESPECT (Classmates, classroom, tools/materials and Mrs. B)

Possible Projects:

- Problem Solving
- Design a Game
 - Makey Makey
- Home Design
- Graphic Design
- Launch a Rocket

Mrs. Brumbaugh

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Problem Solving

Involves...

- Teamwork
- Brainstorming
- Determination
- Exploration
- Learning from mistakes

Throughout the class students will need to think on their own with some guidance by Mrs. B.

Grading Criteria:

- Long-term projects: 100 points
 - Short-term projects: 50 points
 - Class Worksheets: 10-30 points
- Project grades will be based on a combination of rubrics and self-reflections.

