Objective: To research many different kinds of engineers and investigate what each does.

Warm Up: If you could be any kind of engineer – what kind would you like to be?

Procedure:
1) Students will choose one type of engineer that they would like to be and investigate more about. Take volunteers to discuss their choice aloud.
2) Students will each take an Engineer Packet from the center of the table and we will read the brief description of each type of engineer aloud (Civil & Environmental, Chemical and Biochemical, Biomedical, Ceramics & Materials, Electrical & Computer, Mechanical & Aerospace, Industrial & Systems)
3) Hand out directions for “Engineer Research Project” and read aloud. Also distribute grading rubric and discuss what needs to be included in this project and how it will be assessed.
4) Students will randomly choose one type of engineer out of a hat to research.
5) Students will then write down the description of their chosen topic on the project sheet.
6) Students will spend 3 days in the media center researching their topic. They will then spend 2 days in class laying out their Power Point Project on paper and then an additional 4 days in the computer lab creating a Power Point Presentation.
7) Review instructions for the project and the next 2 weeks.

Evaluation:
Observation of understanding of the different types of engineers and the engineer project.

Homework:
Ask one family member to describe what they think the engineer you chose does for a living – complete on the “What Do You Think They Do?!?!?” Worksheet.

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WHAT DO YOU THINK THEY DO?!?!?  

Below you are to write down the description of what one family member or friend thinks that the engineer that you chose for the project does for a living. It should be at least three sentences and needs to describe what they do, what they create and even possibly a famous person who is this type of engineer.
ENGINEERING POWER POINT PROJECT

You will be researching one type of ENGINEER for this two-week project. We will spend 3 days in the media center to assist you in obtaining all the information you will need for this project. You can use books, magazines, the Internet or an interview from someone you know who works in the field. We will then spend 2 days working in the classroom on a Power Point layout which will be done on paper. The next 4 days we will spend in the computer lab creating the Power Point Presentation. Your project must include the following:

- Define your branch of engineering.
- Name and describe 3 tasks someone who has this job does.
- Name 1 famous woman and 1 famous man who work in this field, describe what they do, where they went to school and what their focus is.
- Go to www.engr.rutgers.edu and investigate 2 projects or research activities that are being done at Rutgers University in your specific branch of engineering.
- Describe 2 jobs that you can get when graduating with a degree in this field.
- Name one professor at Rutgers University in your branch of engineering that you found interesting and describe what they have done that fascinated you.
- Include at least 3 pictures dealing with your branch of engineering.
- Your Power Point Slide Show must be at least 8 slides and no more than 15.

Be sure to review the attached grading rubric to be sure that you have included everything necessary for this project.

The Branch of Engineering you picked is: ____________________

______________________________________________

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ENGINEER POWER POINT
PROJECT RUBRIC

Name ___________________ Date ________

Defined Branch of Engineering _______/10

3 Tasks Named and Described _______/10

Famous Male in Field _______/10

Famous Female in Field _______/10

Description of 2 Projects/Research Activities _______/10

Description of 2 Jobs _______/10

Description of Professor at Rutgers _______/10

3 Pictures included in Slide Show _______/10

PowerPoint Layout Included _______/5

At least 8 Slides in Presentation _______/5

Creativity in PowerPoint _______/5

Group work _______/5

TOTAL _______/100

GRADE ________

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