Title: Doing the design project

Overview

After we decide on a problem we want to solve, we use the engineering design process to help us find possible solutions. We are using a design process that is a combination from Engineeringlens.org and Olin college of engineering.

Essential Questions

What are we looking to do?

How would we judge success?

What do we have to design to solve this issue?

What is the purpose of this design?

What would the goals and objectives be?

Can we break the problem/design into parts?

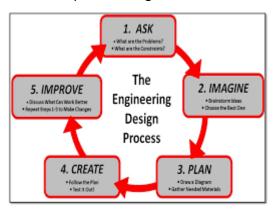
When we reach a road block, we will be able to decide an new path

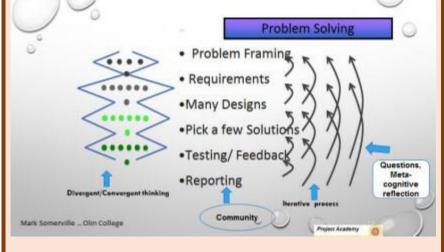
Basic definition:

Engineering designs creates useful products and process for society based on all disciplines but mainly math and science.

Tasks

- Understand what the problem is? Need to solve the root issues versus just a band-aid
- What are the requirements for this problem that society needs
- How are we going to measure success of this project
- Research the problem
- Find many possible designs
- Sort/ Shape a few best
- Test and check ideas with other
- Decide the best
- Report finding





Learning Skills

Questioning	Creative thinking
Critical thinking	Reflection
Decision making	System thinking

Note: the Iterate nature and the divergent / convergent nature of the process