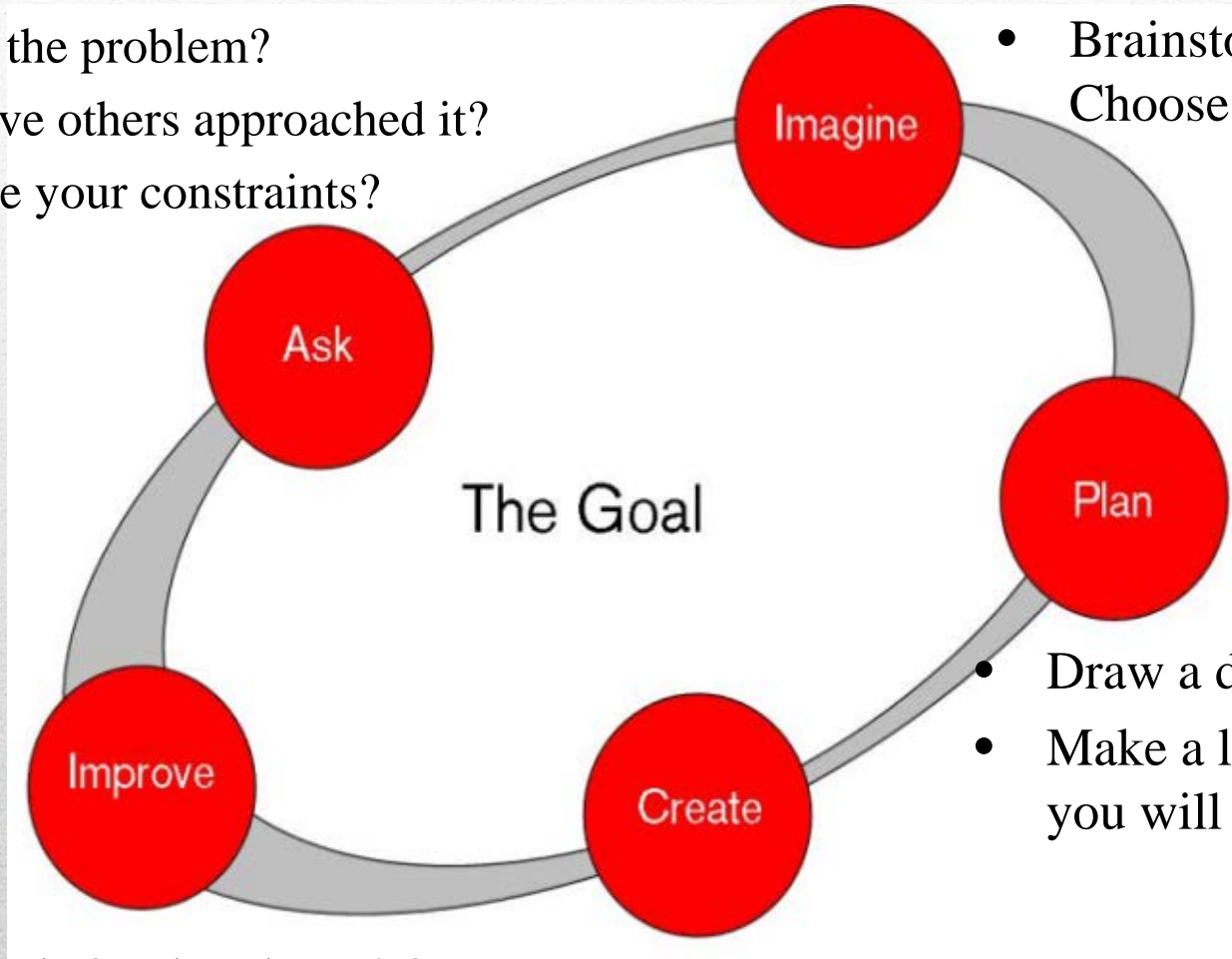




Engineering Design Process

Engineering Design Process

- What is the problem?
- How have others approached it?
- What are your constraints?



- What are some solutions?
- Brainstorm some ideas?
Choose the best one.

- Draw a diagram.
- Make a list of the materials you will need

- What works? What doesn't?
- What could work better?
- Modify your designs.
- Follow your plan and create something.
- Test it out!

Rubric for the Documentation of the EPD	Excellent Documentation 4-5 points	We Were In A Hurry 0-3 points
Ask	4-5 well thought out questions are listed that will aid in the design of the tower	A couple of questions are listed. Little evidence that these questions will aid in the design of the tower.
Imagine	Several sketches are provided. Easy for the grader and others to see and understand the design	There are sever or no sketches. It is difficult for the grader and others to understand design ideas.
Plan	A plan is drawn (more than a sketch) that shows the basic design idea	The drawing of the plan is more like a sketch.
Create/Test	Data is provided for first test. A description of the success or failure of the test is provided	Little or no data or description of the success or failure of the test is provided.
Improve	Specific Ideas for improvement are provided.	Few or no ideas for improvement are provided
Redesign	Specific data and documentation of the redesign are provided.	Little or no data or documentation related to the redesign are provided.