Whatever Floats Your Boat!

ENGINEERING DESIGN PROCESS

- Ask: Identify the need & constraints
- Research the problem
- Imagine: Develop possible solutions
- Plan: Select a promising solution
- Create: Build a prototype
- Test and evaluate prototype
- Improve: Redesign as needed
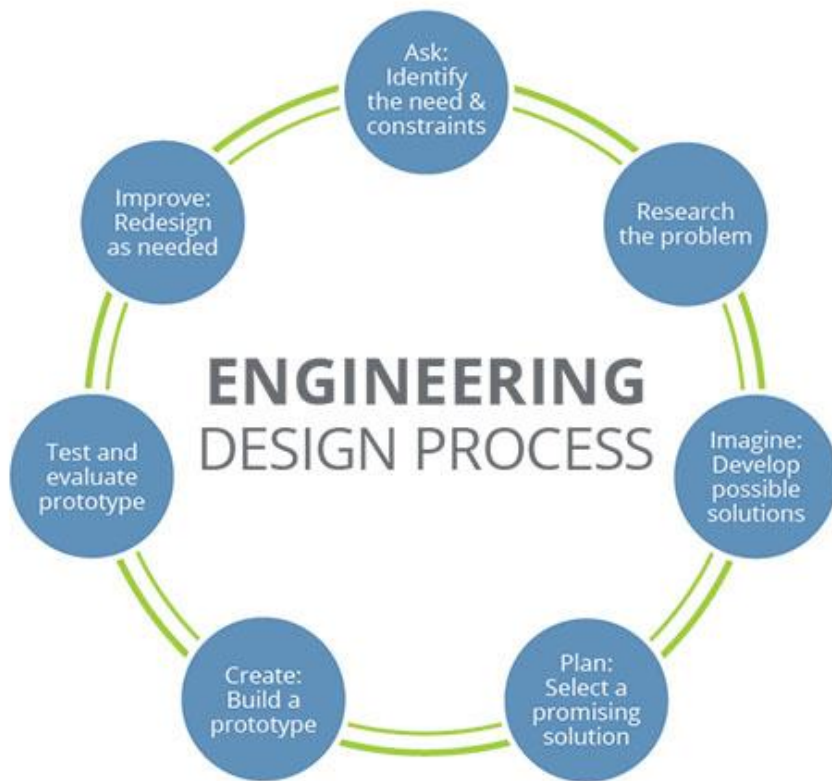
Ask: Identify the Need and Constraints of the Problem

Imagine: Brainstorm possible solutions

Get together with your group and create individual sketches/ideas for the project!

Crazy ideas are good, they lead to creative solutions!

Plan:
Select a promising solution

Draw out some blueprints and ideas!

Create:
Build a Prototype
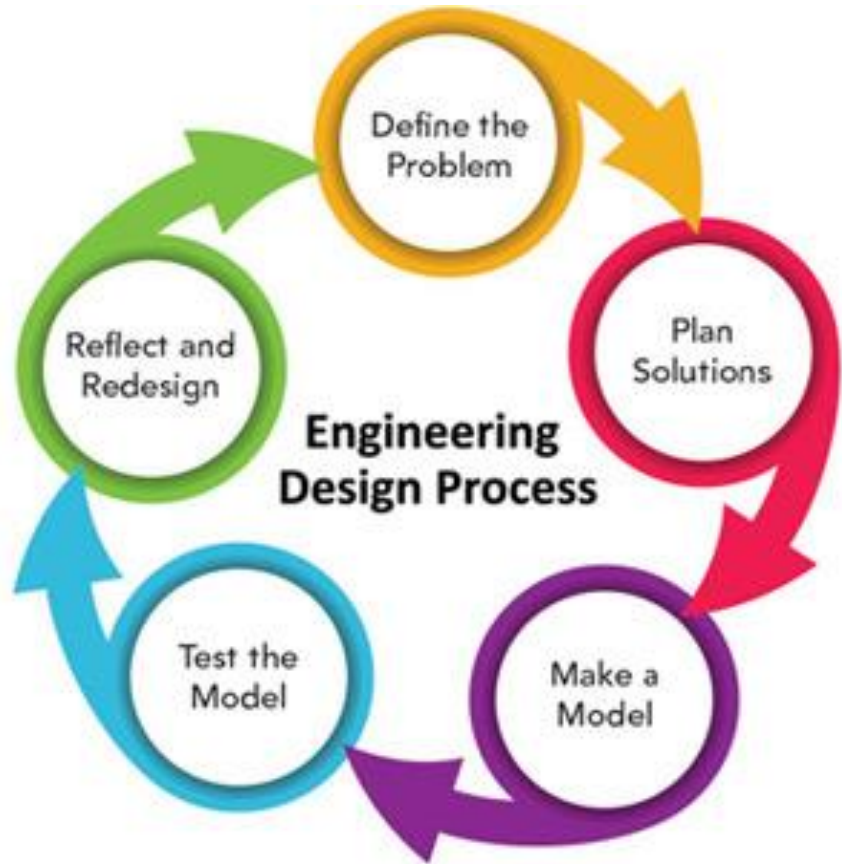
Make your plan come to life!

Test and Evaluate

Think you have the best plan? Test it!

Learn from this and see what can be improved.

Improve: Redesign as Needed

If your plan worked, that's great! Now how could you do it more efficiently?

Engineering Design Process

- Define the Problem
- Plan Solutions
- Make a Model
- Test the Model
- Reflect and Redesign

SUCCESS

SUCCESS

WHAT PEOPLE THINK IT LOOKS LIKE

WHAT IT REALLY LOOKS LIKE