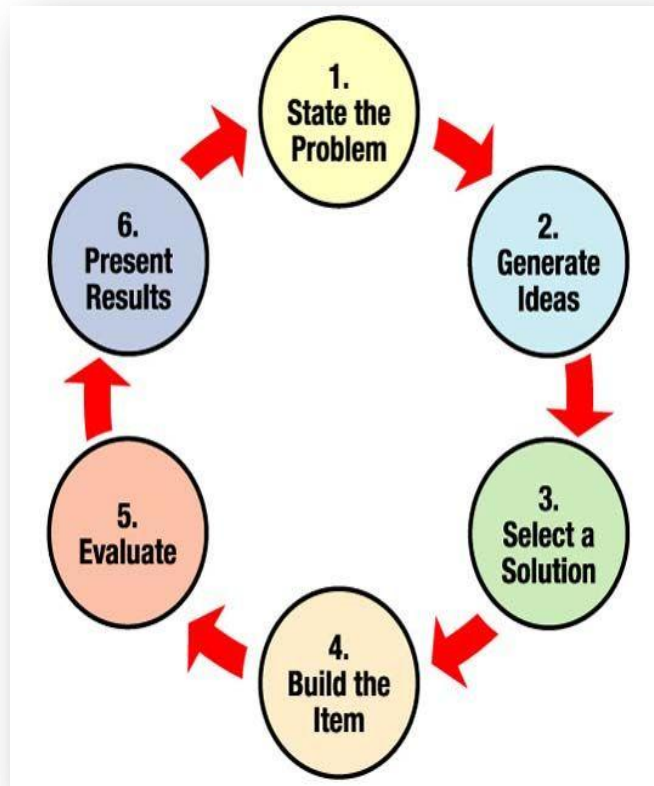


Engineering Design Loop



This is a ***COLLABORATIVE*** process.

- 1. State the problem:** define the problem/challenge
- 2. Generate Ideas:** Brainstorm – students research the problem and/or generate ideas for solving the problem
- 3. Select a solution:** the students collectively choose what they think will be the best idea/solution for the problem
- 4. Build the item:** they take their idea and begin to build the model based on their brainstorming
- 5. Test and Evaluate:** Does it work...did it solve the problem? Why/Why Not? Go back and improve their design if needed
- 6. Present Results:** Communicate results; students will share with the class their results – what they did, if it worked/didn't work and what they did or would do to improve it.