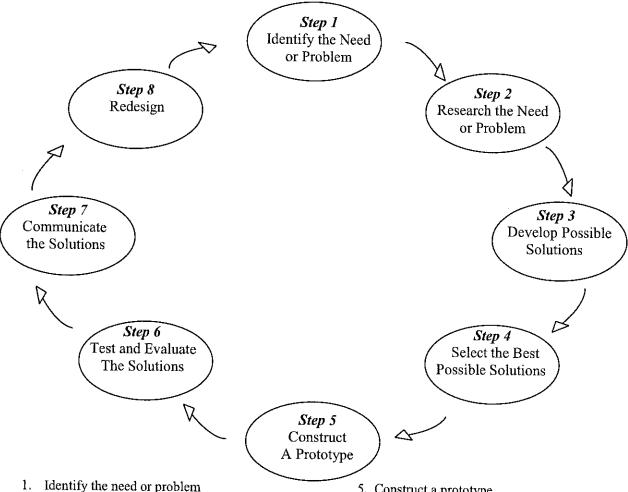
Steps in the Engineering Design Process



- 2. Research the need or problem
 - Examine current state of the issue and current solutions.
 - Explore other options via the internet, library, interviews, etc.
- 3. Develop possible solutions
 - Brainstorm possible solutions
 - Draw on mathematics and science
 - Articulate the possible solutions in two and three dimensions
- 4. Select the best possible solution(s)
 - Determine which solution(s) best meet(s) the original requirements

- 5. Construct a prototype
 - Model the selected solution(s) in two and three dimensions
- 6. Test and evaluate the solution(s)

Does it work Does it meet the original design constraints

7. Communicate the solution(s)

Make an engineering presentation that includes a discussion of how the solution(s) best meet(s) the needs of the initial problem, opportunity, or need. Discuss societal impact and tradeoffs of the solutions

- 8. Redesign
 - Overhaul the solution(s) based on information gathered during the tests and presentation