Scientists investigate what is; they discover new knowledge by peering into the unknown...

Engineers create what has not been; they create things that have never existed before...

- Joseph Bordogna, Deputy Director, National Science Foundation

Steps in the Design Process

- 1. Define the problem.
- 2. Come up with design ideas (brainstorm).
 - 3. Select the most promising design.
- 4. Communicate about and plan your design.
 - 5. Create and test your designed product.
 - 6. Review for improvements.
 - 7. Iterate your design (if necessary).

Every act of creation is first an act of destruction.

- Pablo Picasso

Imagination is more important than knowledge.

— Albert Einstein

Brainstorming Guidelines

No negative comments allowed.

Encourage wild ideas.

Record all ideas.

Build on the ideas of others.

Stay focused on the topic.

Allow only one conversation at a time.