

The Engineering Design Process

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

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

— Joseph Bordogna, National Science Foundation

Steps in the Design Process

1. Define the need or problem.
2. Come up with ideas (brainstorming).
3. Select the most promising idea or design.
4. Communicate and plan the project.
5. Create, build/create and test the design.
6. Evaluate and revise the design.

Imagination is more important
than knowledge.

— Albert Einstein

Every act of creation is first
an act of destruction.

— Pablo Picasso

Brainstorming Guidelines

No negative comments allowed.
Encourage wild ideas.
All ideas are recorded.
Stay focused on topic.
One conversation at a time.
Build on the ideas of others.

Engineering is about...
bringing ideas to action.
It's about creating a safer
and healthier planet.

Apply your ingenuity and
collaborate with other
people to imagine and
create things that have
never existed before.

Life takes engineering!