

THE DESIGN PROCESS



The Engineering Design Process is a multistep process that includes the following steps:

Design Process Step	Definition
Define Problem	At this step, figure out exactly what needs to be done. Outline all criteria and constraints.
Generate Concepts	Research and use background knowledge to determine what scientific and engineering practices apply to the problem (Ex- in order to save the penguins, you must review what makes a good insulator)
Develop a Solution	Brainstorm. Come up with ideas. Sketch them out. Bounce ideas off of your teammates. Work together.
Construct and Test Prototype	BUILD IT. Select the best idea from the group and get to work! Make your design come to life. Then, test it out to make sure it works.
Evaluate Solution	Look over your original Problem. Does your solution meet all the requirements? Did everything work the way you'd planned. If not, re-evaluate and try again. Go back to step 2 and develop a new plan.
Present Solution	Once you're ready, present your finished product to your client.