

The Engineering and Design Process
Engineering Notebook

Name:

Team Members:

PROJECT TITLE:

MREED.IEYMS.Science

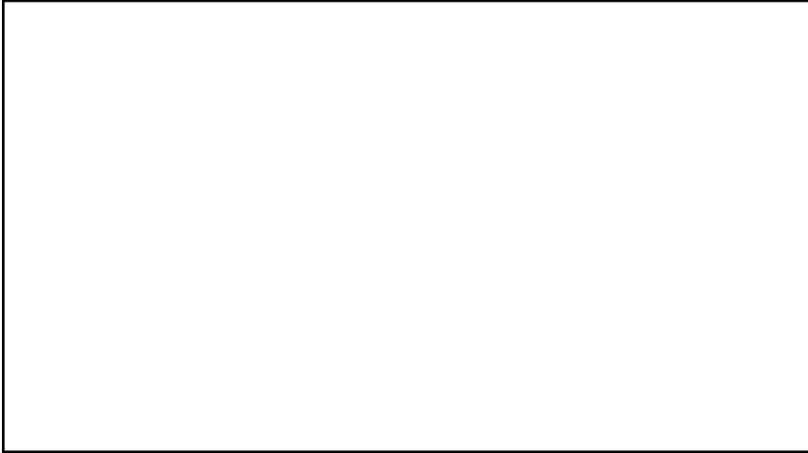
Engineering notebook adapted from stem.nasa.gov



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The Next Generation of Explorers

Step 1: Identify the problem

What are you being asked to achieve? What is the goal of this project?



Step 2: Identify Criteria and Constraints

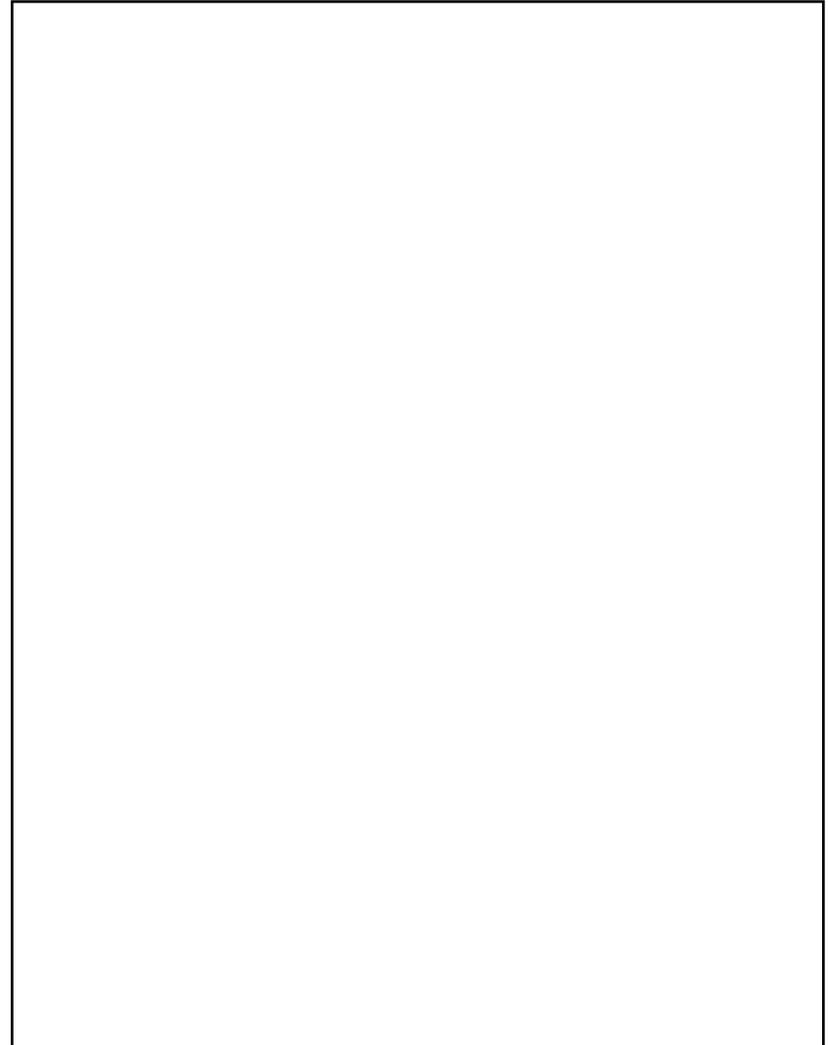
What are the activity's requirements? (perhaps you can find this on the rubric, if you have one)

What will limit your design? (cost, supplies, time, etc.?)



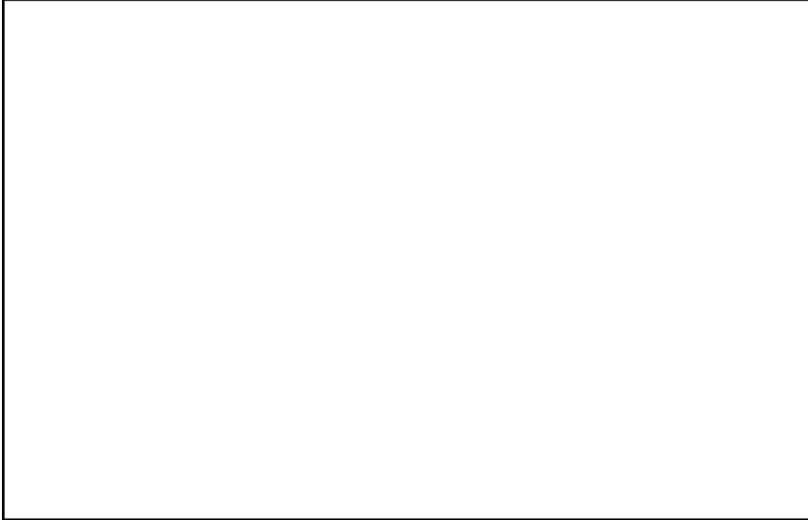
Step 8: Share the design

Be proud of your design and what you achieved! Find a creative way to get the word out about your product and what you have learned.



Step 4: Select a Design

Explain why you chose the final design, and provide a sketch of your winning idea



Step 5: Build a prototype

Step 6: Test and evaluate your prototype

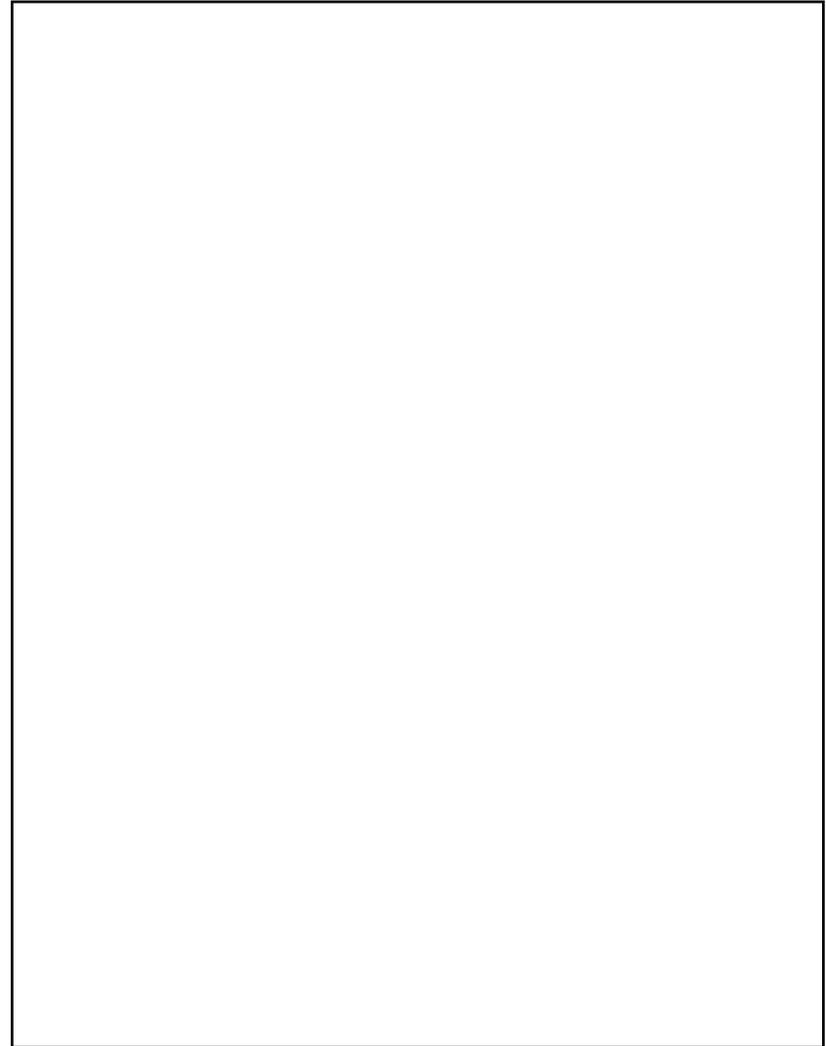
Step 7: Refine your design

You can use this space for any notes. What did you learn in the evaluation step that led to the final design; how did the final product perform?



Step 3: Brainstorm Possible Solutions

Describe and sketch possible approaches to solving the problem



Extra Sketch and Notes space:

