**Le**

The

Engineering

Design

Process

Team Members Names:

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**Step #1 = Identify the problem**

**Step #2= Identify Criteria and Constraints**

Time Frame = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Tools that can be used = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Step #3 = Brainstorm Possible Solutions \****Thumbnail sketches*

**Step #4 = Generate Ideas \****Thumbnail sketches*

Best Idea #2

Best Idea #3

**Step #5= Explore Possibilities**

Discussion highlights:

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|  |  |
| --- | --- |
| My Designs Pros | My Designs Cons |

**Step #6 = Select an Approach** *“Which design are you going to use**and why?”*

Sketch of it:

**Step #7 = Build a Model or Prototype** to solve the problem given (step#1) based off the Criteria and Constraints given (Step #2) based off the Best Idea you had (Step #6).

**Step #8 = Refine the Design**

So what worked in your prototype?

What didn’t work in your prototype?

What did your classmates think about your prototype?

What can you change to make it better?

Sketch what changes you are going to make and refine your prototype for the final test.