**Engineering Design Template**

**DEFINE THE PROBLEM**

I will follow the design process to create \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**DESIGN CRITERIA AND CONSTRAINTS:**

**A. Criteria:**

**B. Constraints:**

**MATERIALS:**

|  |  |
| --- | --- |
| **Provided to Each Group:** | **Provided Choice Materials:** |

**BRAINSTORM CREATIVE SOLUTIONS:** Generate at least 2 design solutions that match the criteria and constraints. ***This should be done by yourself.***

|  |  |
| --- | --- |
| **Design Solution 1** | **Design Solution 2** |
| **Blueprint (sketch) with labels:** | **Blueprint (sketch) with labels:** |
| **Caption explaining idea:** | **Caption explaining idea:** |

**CHOOSE THE BEST IDEA/SOLUTION:** identify at least 3 pros and cons for each solution. Then, explain why the final solution was chosen. ***This is done as a group.***

|  |  |
| --- | --- |
| **Design Solution 1** | **Design Solution 2** |
|  |  |
| **Pros:** | **Pros:** |
| **Cons:** | **Cons:** |
| **Are you choosing this design? Why?** | **Are you choosing this design? Why?** |