**Mini Bridge Project**

Objective: Build a mini truss bridge with the best weight to strength ratio.

Step 1:

Complete some research into what gives a bridge the greatest amount of strength. You may use both the internet and print materials to complete this step.



Step 2:

Create a scale drawing of your bridge.

Step 3:

Create your bridge in TinkderCAD. Make sure it is to scale. A bridge that does not meet the required dimensions will be rejected.

Step 4:

Export your completed TinkerCAD file to your instructor as an .stl file.

Step 5:

Your bridge will be tested in class. Your score will be calculated as follows:

|  |  |  |
| --- | --- | --- |
| # of pounds your bridge held | weight of your bridge | ratio |
| \_\_\_\_\_\_\_\_\_\_\_ (lbs.) / | \_\_\_\_\_\_\_\_\_\_\_ (g) = | \_\_\_\_\_\_\_\_\_\_\_\_ |

**Mini Bridge Design Sheet**

*Design a bridge to meet the requirements below.*

1. SCALE drawing of the side view. Must be 7” or 178mm in length and have a height of 3” or 76.2mm. (All designs will be ¼” or 6.35 mm wide)

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