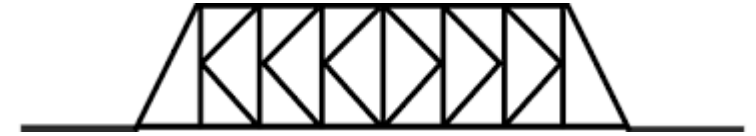


# Bridge Building Project

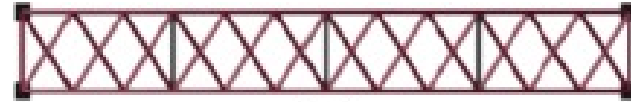
Balsa Wood Bridge

# Requirements

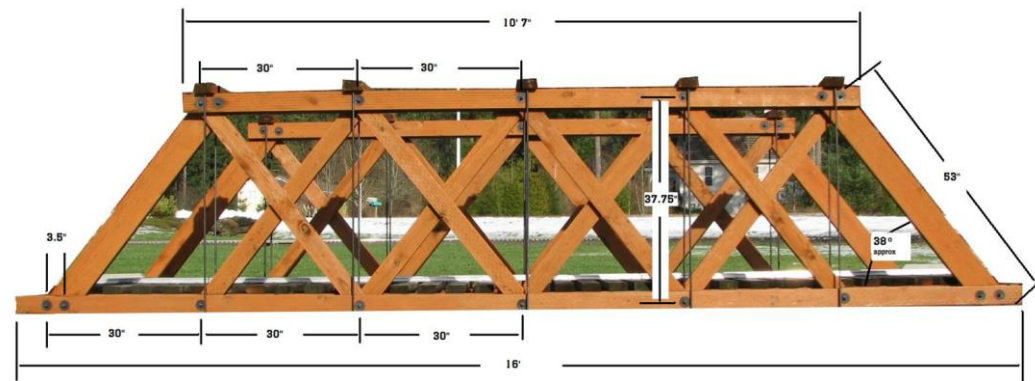
- 1 Front View Drawing of your bridge design



- 1 Top View Drawing

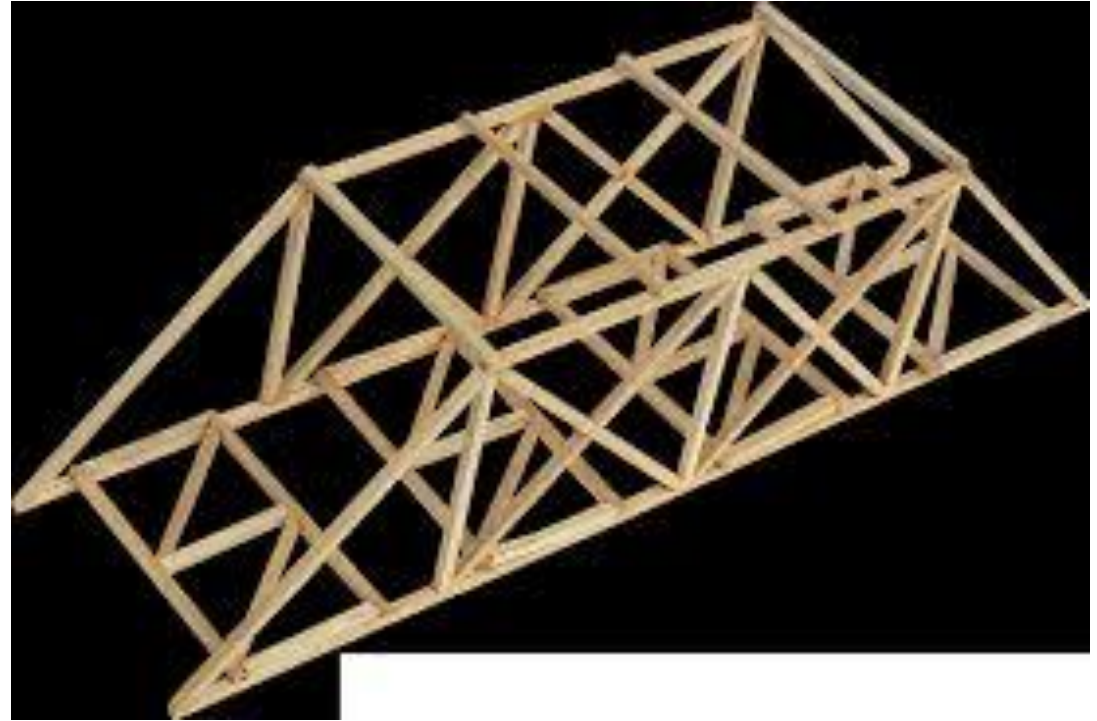


- Measurements for the size of your bridge



# Design Specifications

- Bridge span is 10"
- Maximum bridge Length 12"
- Maximum bridge Height 6"
- Maximum bridge Width 3"



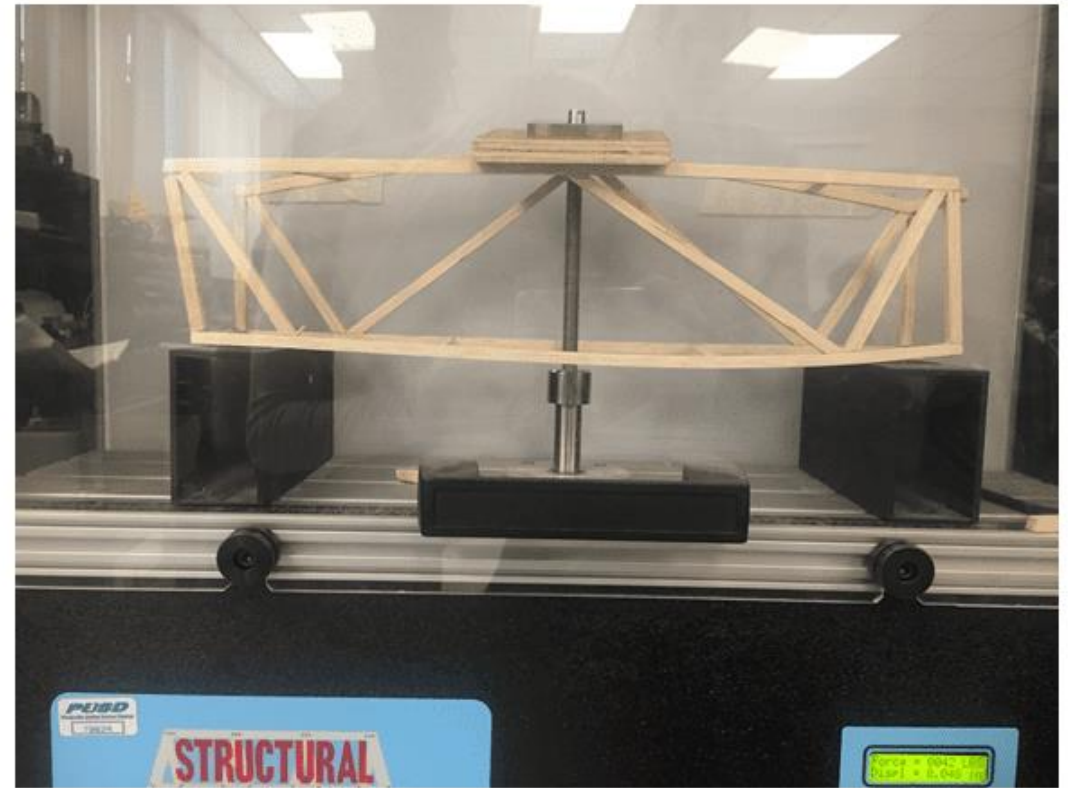
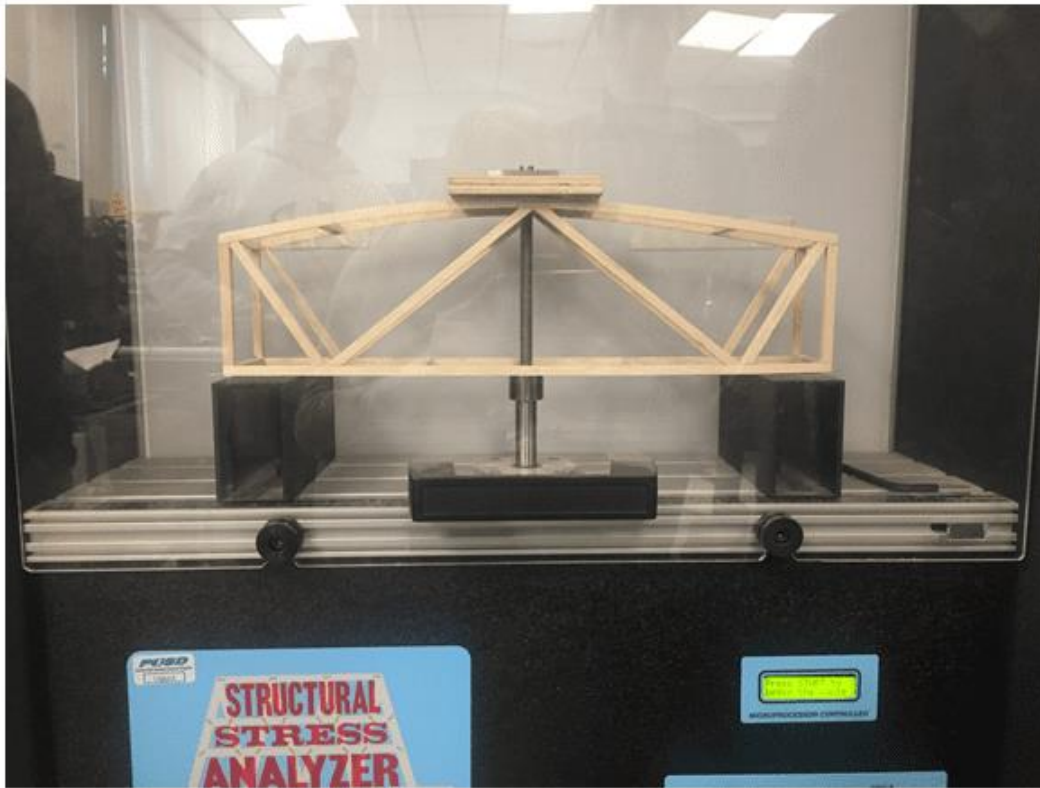
# Bridge Efficiency

- 1 Piece of Balsa Wood = 10 cents
- Weight Bridge can hold in pounds (lbs)
- Formula

$$\\$/LBS = E\%$$

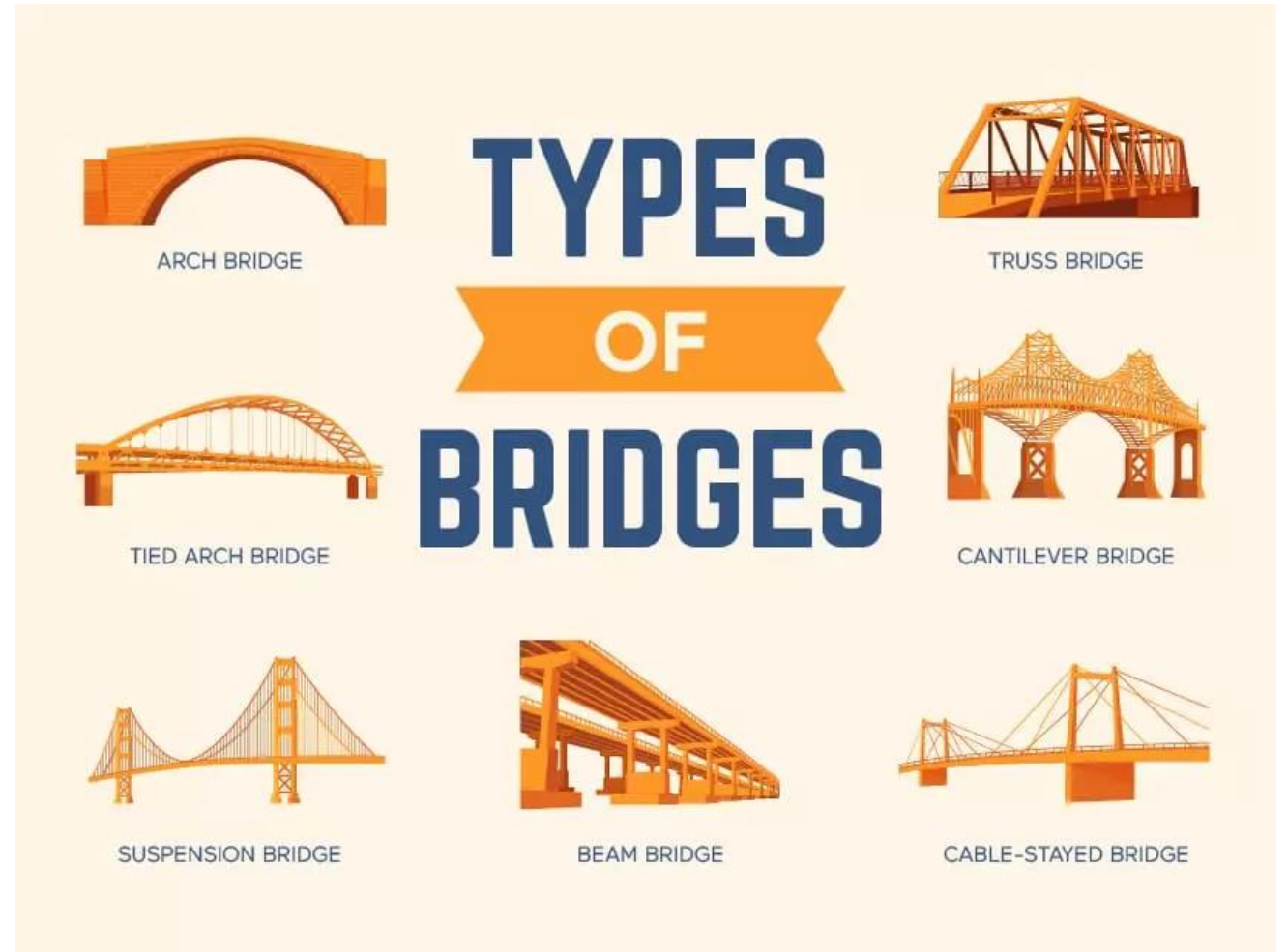
- Maxed out test will equal 1,000% Efficient

# Bridge Testing



# Types of Bridges

- [Types of Bridges | BigRentz](#)

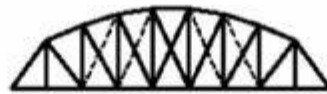


# Types of Truss Bridges

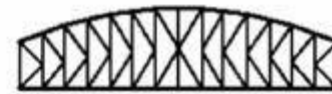
- [What Types of Truss Bridges Are There? | Areté Structures](#)



Pratt



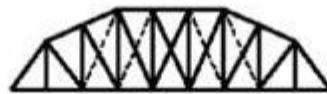
Parker



K-Truss



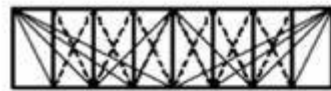
Howe



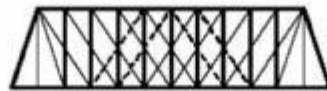
Camelback



Warren



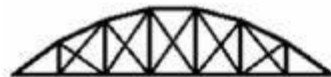
Fink



Double Intersection Pratt



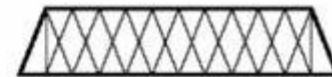
Warren (with Verticals)



Bowstring



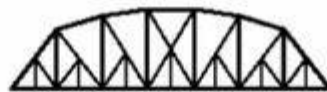
Baltimore



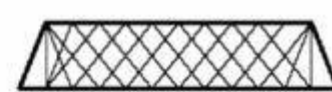
Double Intersection Warren



Waddell "A" Truss



Pennsylvania



Lattice

# Project Conclusion

- Measure your bridge what is the...
  - Length
  - Width
  - Height
- What is the weight of your bridge...
  - Grams
- How many sticks did you use?
- What was the hardest part about building your bridge?
- How much weight did your bridge take before it broke?