



## What Is a Bridge?

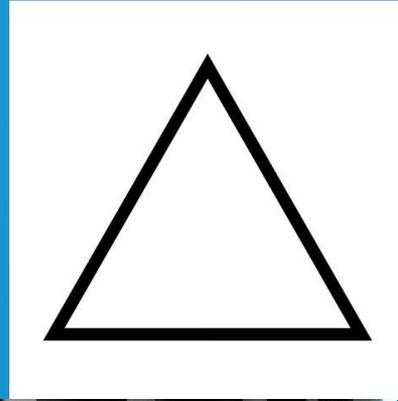
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- A raised road, commonly, going across a body of water
- For vehicles and people
- Bridges can be massive or short

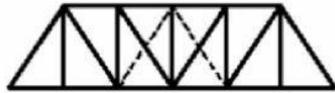


## Why do Bridges Stay Up?

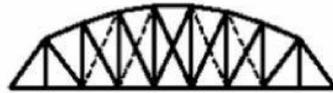
- Supports
  - Triangles
  - Posts
  - Beams
  - Cables



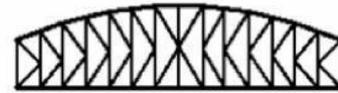
## Some of the Many Types of Bridges



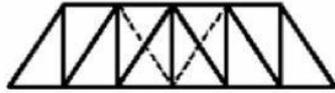
**Pratt**



**Parker**



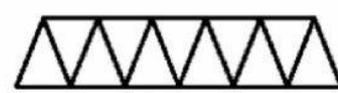
**K-Truss**



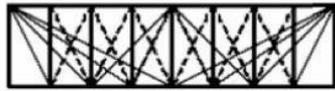
**Howe**



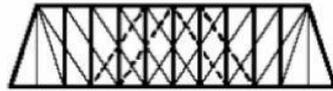
**Camelback**



**Warren**



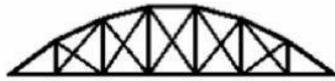
**Fink**



**Double Intersection Pratt**



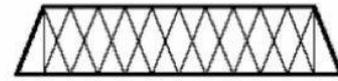
**Warren (with Verticals)**



**Bowstring**



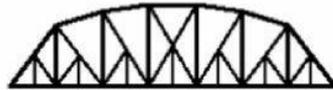
**Baltimore**



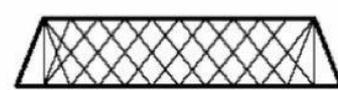
**Double Intersection Warren**



**Waddell "A" Truss**



**Pennsylvania**



**Lattice**

## Some Bridges You May Have Heard of



Golden Gate Bridge



Tower Bridge



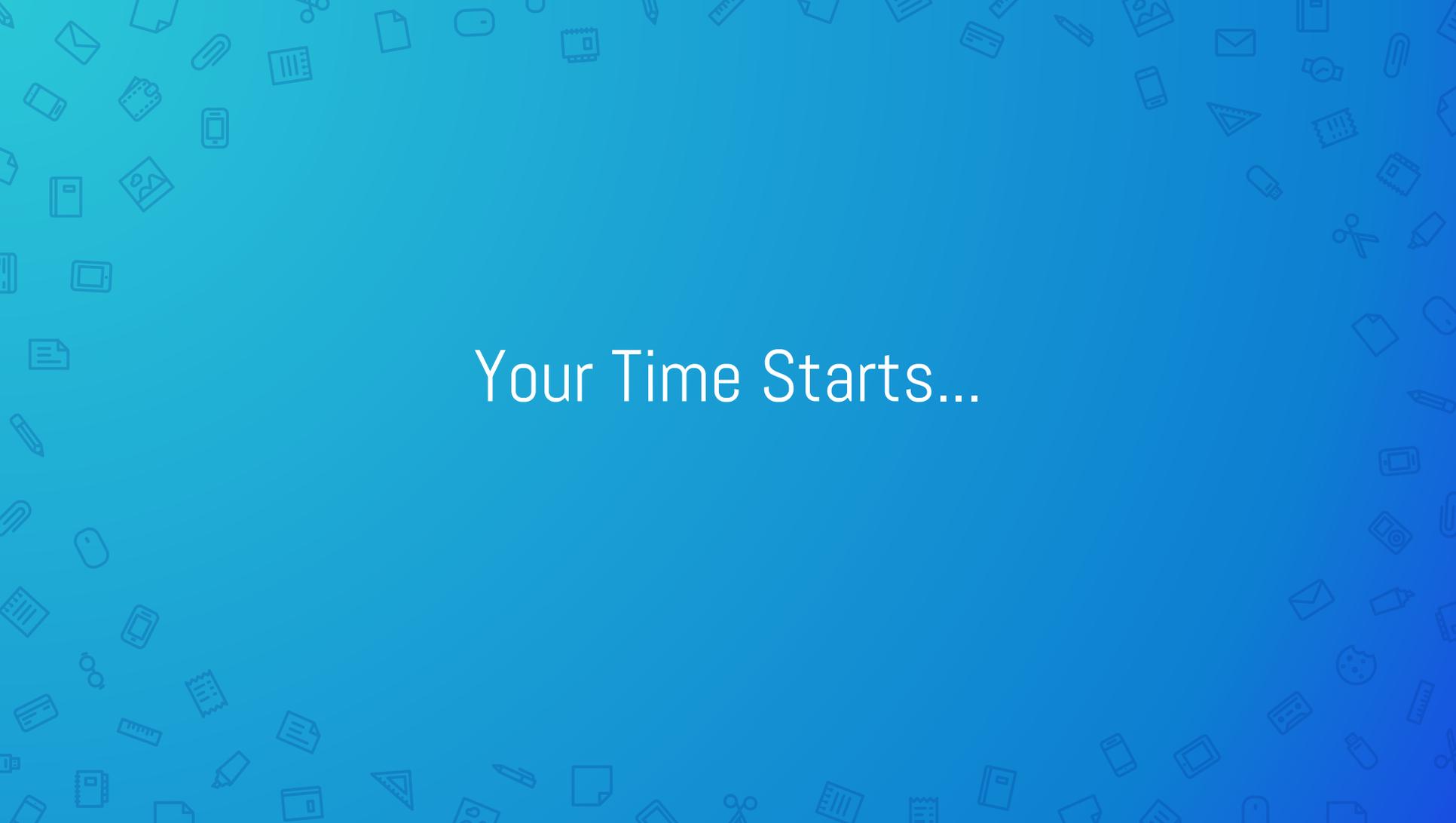
Brooklyn Bridge

## Contest

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You have until 10 minutes before the end of class to build a bridge that you think will hold the most weight.

- You can work solo or in groups of 2
- The bridge must be at least 10 inches long
- It cannot have any center poles
- The bridge will be set on 2 planks of wood
- Weights will be set on the surface of the bridge
- The bridge that can hold the most weight will win a prize!
- You must use the materials provided



Your Time Starts...



NOW!!!!