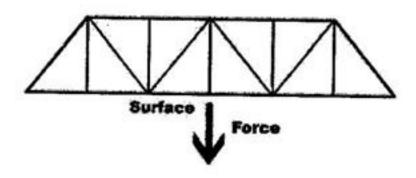


Warren Truss Bridge

- A common bridge design was the Warren truss bridge patented by James Warren and Willoughby Monzoni in 1848.
- The diagonal braces of this design point both towards and away from the midpoint of the bridge.
- Thus they experience both tension and compression stresses as a load, such as a trains, crosses from one end to the other.



Warren (vertical support) Truss Bridge

- Similar to the above Warren Truss Bridge, the vertical supports at greater stability and strength.
- When building your toothpick bridge, be sure to include these vertical struts. It really makes a difference.

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Source: http://www.toothpickdesign.com/trusstoothpickbridges.htm