

## Wednesday Challenge Form

Group Members: Richard, Michael, Nilesh

**Problem Statement:** Design and fabricate a bridge out of 20 pieces of spaghetti and wood glue that spans a 24 inch gap while bearing a load (water). You will get 100 pieces to make prototypes and 20 for the final build. The highest efficiency bridge wins. Efficiency= Supported Weight/ Mass of Bridge.

**Approach:** First, we built a prototype that looked like a triangular prism. It had a score of 9.9, a great improvement from last year's bridge. Then, we made a full size version of the bridge for the actual competition.

**Solution:** In the actual competition, we got 2<sup>nd</sup> place for our bridge.

**Lessons Learned:** Triangles are strong.