

## Wednesday Challenge Form

Group Members: Group Members: Forrest, Tyler, Adrian

Problem Statement: Create a bridge out of wood glue and 20 pieces of spaghetti that spans 2ft and has highest efficiency of weight supported to bridge weight. 100 pieces are used for design, 20 for final.

Approach: For our approach we decided to strengthen the base material by connecting three together. Then it's just a matter of building a triangle based bridge that supports weight evenly. We decided to make 2 platforms connected by horizontal strands. A thick top beam made out of a group of 6 pieces and then underside support.

Solution: Our bridge had an efficiency of 5.87 and a payload of 1174, it was quite heavy at 200grams though.

Lessons Learned: Don't glue on cardboard, heat gun speeds drying, avoid too much glue