

Wednesday Challenge Form

Group Members: Lucas, Ian, Raul, and Malik

Problem Statement: Design a bridge made of spaghetti and wood glue. Goal is to make the highest efficiency bridge. Efficiency is defined as the ratio of the supported bridge weight to the mass of the bridge. The supported weight will be provided by water. The span distance will be 24". Each group will be provided 120 pieces of spaghetti, however only 20 can be used in the final design. In addition, the bridge must accommodate the weight attachment hardware provided by me. Refer to the JPL Invention Challenge Bridge for reference. Duration was 2.5 weeks.

Approach: Create a bridge that can actually sustain the weight of the carton. Also, try to use a LOT of glue to help the bridge. This allows the bridge to be more flexible, allowing it to hold more weight.

Solution: We made a bridge that received an overall score of 0. Connor's team won with 13.

Lessons Learned: If I were to do this again, I would use triangles in the bridge to help support more weight. I would also try to not break the bridge before the test.