

### Popsicle Stick Bridge:

#### Goal:

Build the least expensive bridge that can span a 12 inches gap, have a width of at least 3 inches, and hold a load at its center using only the materials listed below. The functioning bridge with the lowest materials cost wins.

#### Details:

The load is a single brick. The load will be suspended under the bridge via a pre-made suspension device. The load will be located at the center of the bridge, 6 inches from the "Solid End." The bridge must lie on the solid ends; it cannot be attached to the solid ends in any way. The bridge must be able to hold the load for 30 seconds or more to be deemed functional.

#### Materials:

- Popsicle Sticks (\$1 per stick)
- Printer Paper (\$3 per sheet)
- Glue Container (\$10 per container)

#### Score:

Total Material Cost = \$1x(Number of Popsicle Sticks Used) + \$3x(Number of Sheets of Printer Paper Used) + \$10x(Number of Glue Containers Used)

A material is deemed used if it cannot be returned in the same shape or order that it was received in. Example: If a corner is cut off of a piece of paper that whole piece of paper is deemed used. If a popsicle stick is left over and not modified in any way it will not be deemed used.

