Bolts From The Blue

Judge: Preparation:

Have a 6' folding ruler.

Provide the following materials on a table for the team members.

- Two small plastic bowls, of two colors, for example RED and BLUE
- 2 paperclips
- 10 Spaghetti
- 2 foam paper cups

• 2 rubber bands

- 3 straws
- 1 8.5 x 11 piece of cardboard

- 3 sticky address labels
- 1" square of clay •
- 20 bolts 3/8" x 5" or similar

Provide a copy of the problem instructions on the table for the team members.

Judge Instructions:

(Judge: When team members enter the room, tell them) This is a hands-on challenge. You have 1 minute to select the five team members who will compete. The others must sit in these seats and watch or be escorted from the room. They may not assist in solving the problem and may not talk.

(Judge: After 5 Team Members Chosen and seated, Read all the instructions, repeat, then Start the Time)

You may construct two platforms from the materials before you, to support the RED and BLUE bowls to hold a quantity of bolts. Platform requirements:

- Each platform must rest on top of the table and not be supported by anything but the table
- The bottom each bowl must be at least 8" from the table surface
- The platforms must not touch each other; must not support each other in any way

Part 1: Construction (6 minutes)

- You will have 6 minutes to construct the Platforms
- You will be given warnings when 2 minutes, and 1 minute remain.
- You may stop early and inform the Judges that you are done
- You may use the bolts to test the platforms

Part 2: Testing (1 minute)

- Testing begins after the 6 minutes are done or when you say you are done
- You will drop bolts into the towers, one at a time
- You must not touch the platforms or the plates
- For a bolt to score, the entire bowl must be at least 7" from the surface of the table after the bolt rests in the bowl

Scoring:

- 1-20 points for teamwork
- 3 points for each bolt scored in the BLUE platform
- 1 point for each bolt scored in the RED platform

You may ask questions at any time, time continues

(Judge: Repeat all the instructions, then Start the Time)

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Team Copy

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