

Straw Box

Judge: Preparation:

Have a 6' folding ruler .

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

- 30 plastic straws in paper wrappers
- 2 paperclips
- 2 rubber bands
- 10 Spaghetti
- 10" piece of yarn
- 1" square of clay
- 4 sticky address labels

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)

Your challenge is to construct two structures from the materials before you.

- Each structure must rest on top of the table and may not be supported by anything but the table
- The structures must not touch each other; must not support each other in any way

Construction (6 minutes)

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

At the end of the time, the Judges will measure the structures

- First, the Judges will measure the height of the highest structure, in feet: H1
- Second, the Judges will determine the widest part of the highest structure which is at least half its height from the table, in inches: W1
- Next, the Judges will measure the height of the shorter structure, in feet: H2
- Finally, the Judges will determine the widest part of the shorter structure which is at least half its height from the table, in inches: W2

Scoring:

- 1-20 points for teamwork
- H1 times W1
- H2 plus W2

You may ask questions at any time, time continues

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

Straw Box

Team Copy

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