

Horizontal Pointer

Judge: Preparation:

Have a 6' folding ruler.

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

- 2 paperclips
- 2 rubber bands
- 5 sticky address labels
- 10 Spaghetti
- 10 straws
- 1" square of clay
- 1 12" ruler
- 2 index cards
- 2 30" pieces of string

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 problem is to construct a horizontal pointer, as long and straight as possible.

Pointer requirements

- The Pointer must be attached only to the table, must not touch the floor or anything else
- The Pointer must use only the materials before you

Construction (6 minutes)

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

Scoring:

- 1-20 points for teamwork
- 1 point for each inch the farthest part of the pointer is from the table, measured horizontally
- 1 point for each inch above the floor that the lowest part of the Pointer is from the floor
- -2 points for each inch from the edge of the table used to support the Pointer, measured horizontally

You may ask questions at any time, time continues

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

Judge Notes:

- The maximum points for "inches above the floor" should be the lowest height at which the Pointer is attached to the table, or the lowest point of the pointer off the table, whichever is lower.
- Measure the distance that the table supports the Pointer by the longest horizontal distance from where a part of the Pointer crosses the edge of the table, to the farthest point any of the materials connected to the Pointer are on or above the table(yet, still only measuring the horizontal distance).

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Team Copy

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