

Tilting Wide Mill

Judge: Preparation:

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

- Five 1 "x 2 5/8" address labels
- Two paperclips
- Two rubber bands
- A 1" square of clay
- 10 Spaghetti
- Three straws
- One foam cup
- two 8 ½ x 11 sheets of paper
- Two cardboard paper towel cores

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 "Wide Mill", as described by the problem. Your goal is to build a device that is wide and does not touch the ground, and extends as far as possible in two directions from a stand or tower.

Wide Mill requirements:

- The wide mill will consist of a stand or tower you will construct on the table and with a wide extension going out in at least two directions from the tower or stand
- All parts of the wide extension may only touch the tower or stand.
- The wide extension must extend beyond the tower in two directions

Construction (6 minutes)

- You will have 6 minutes to construct the Wide Mill
- You will be given warnings when 2 minutes, 1 minute, and 30 seconds remain
- You may stop early and inform the Judges that you are done

Scoring

- Scoring begins after the 6 minutes are done or when you say you are done
- The Judges will measure the distance from the edge of the tower to the ends of the extension in each direction
- For each ½ inch of the shorter of the two extensions you will be given 4 points
- For each ½ inch of the longer extension you will be given 1 point
- You will receive from 1 to 20 points for teamwork
- If there are more than two wide extensions, the judges will score only the two widest.

You may ask questions at any time, however, time will continue

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

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Team Copy

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