

DuctSlide

Judge: Preparation:

Have 5 centers from toilet paper rolls per team
Have 5 centers from paper towel rolls per team
Have 5 empty tissue boxes per team
Have 4 10' strips of duct tape per team
A pair of scissors
3 marbles
3 ping pong balls
3 golf balls
3 tennis balls
Two chairs with no sides, facing each other 4' apart

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 problem. 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 a ramp and a ball catcher.

- The ramp must start over the chair on the left and end on the chair on the right
- The catcher will be on the chair on the right and will catch balls from the ramp

Construction (6 minutes)

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

Testing (3 minutes)

- One member of your team will drop(not push) balls over chair on the left, in order, 3 marbles, 3 golf balls, 3 ping pong balls, and 3 tennis balls

Scoring:

- 1-20 points for teamwork
- 1 point for each ball that crosses the ramp and touches the seat of the chair on the right
- Points for each ball that remains on the chair on the right or in the catcher on the chair:
 - Marbles-2, pingpong-3, golf-4, tennis-6

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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 - **Marble-2, pingpong-3, golf-4, tennis-6**