



Bomb Squad

Eligibility

Three (3) teams of 2 members per chapter may participate.

Story

The bomb squad needs your help! Grab the bomb and move it away for safe disposal! Teams will have 2.5 hours to build.

Overview

Using a syringe arm, grab the pvc pipe and move it over the 3" high barrier without triggering the mouse trap.

Materials

- 8 plastic syringes (any size but you may use these links)

[Amazon.com: 30 Pack 20mL Syringes, Plastic Syringes with Catheter Tip and Cap, Individually Sealed Feeding Syringe For Dogs, Measuring Syringe For Liquid, Scientific Labs, Refilling, Dispensing : Industrial & Scientific](#)

- Vinyl tubing to fit syringes (any size but you may use these links)

[Amazon.com: 10 Feet - 3/16" ID 7/16" OD Clear Vinyl Tubing Food Grade Multipurpose Tube for Beer Line, Kegeator, Wine Making, Airline Tubing for Aquarium, Air Water Hose, Fuel Line by Proper Pour : Industrial & Scientific](#)

- Cardboard/foam board
- Index cards
- Scissors
- Hot glue gun & glue sticks

Time limit

60 seconds

Start

Grab the PVC pipe with the syringe arm on side A (left) and wait for the coordinator to give you the signal to start.



Procedures

1. Point 1: Move the PVC pipe over the barrier to side B. Release the PVC pipe and move the syringe arm back over the barrier to side A and rest it on the surface. Confirm with the judge that a point has been scored.
2. Points 2+: Use the syringe arm to move the PVC pipe back to side A. Point is not scored until the empty syringe arm is moved to side B and is resting on the surface. Confirm with the judge that another point has been scored. Continue the pattern to score additional points until time runs out.

Points

1. 1 Bonus point is given for each consecutive point scored without snapping the mousetrap. For example, if 3 points are scored successfully without snapping the mousetrap, then the team earns 3 bonus points for a total of 6.
2. If a team scores 3 points but snaps the mousetrap between points, then they do not earn any bonus points and will have a team score of 3.
3. Time of last point scored will be noted to help break ties. Fastest team wins the tiebreaker.

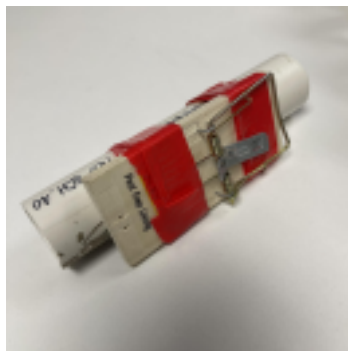
Penalties

If the mousetrap snaps, gameplay stops and the judge will reset the game from the beginning. Time is paused while the game is reset.

Dimensions

A standard mouse trap will be used but may change based on availability. The PVC pipe is 6 inches long and has a 1.25 inch diameter. The barrier is approximately 3 inches tall and up to 1.75 inches wide.

Images:



PVC pipe and mouse trap:



PVC pipe on side A of the barrier.



PVC pipe on side B of the barrier.