

CHAIN REACTION

Description: Design and Build 3 Rube Goldberg Chain Reactions.

Number of Participants: 2

Possible Supplies may include but not limited to: rulers, cups, popsicle sticks, balls, string, tape, marbles, paper plates, hot wheels, plastic cups, spoons, wooden dowels, notecards, rubber bands, paper clips, playing cards, pens, straws, toothpicks, blocks, etc.

Additional items provided for the event: Scissors, Limited amount of masking tape

Competition:

1. Students may only use and select their supplies from those available.
2. Each item will have a selected costs points.
3. Students will have 20 minutes to design and build their chain reaction.
4. The chain reaction must consist of at least 3 events. An event is defined as a transfer of kinetic energy from one item to another.
 - a. E.g. A rolling ball hits a hot wheel car and makes the car move.
5. Within the 20-minute time slot, teams may test the chain reaction as many times as they like, but construction and testing end at the 20-minute mark.
6. Judging will occur immediately after the 20-minute mark.

Scoring:

1. Complete a Chain Reaction consisting of at least 3 events.
2. Teams can add additional events to earn more points.
3. Teams earn material points. Variety earns more points.

Tie Breaker: based on dimensions of the chain reaction

