

# 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

