

## **Rube Goldberg Physics Challenge (2015)**

Purpose: To successfully complete one of the possible tasks from the list provided.

Parameters:

1. Complete the task in 12 – 20 steps.
2. A step is a transfer of energy from one position to the next.
3. Nothing hazardous, dangerous or lewd allowed. Must be safe for observers.
4. Size is smaller than 3 m by 3 m and must be able to fit within the classroom and pass through the door.
5. No objects can fly or project past the 3 m by 3 m parameters footprint.
6. Will be given two practice runs once set up is complete.
7. Each team will make 2 complete runs to be evaluated. (Like the Rube Goldberg Machine Contest)
8. Use recycled materials primarily.

Possible Tasks to Select from:

Zip A Zipper

Hammer A Nail

Inflate A Balloon and Pop It!

Watering A Plant

Dispense an Appropriate Amount of Hand Sanitizer into a Hand

Change Batteries and Turn on a 2-battery Flashlight

Select, Crush and Recycle and Empty Soft Drink Can

Select, Clean and Peel an Apple

Shut Off An Alarm Clock

Put Coins in a Bank

Fry an Egg

- Project ideas from Rube Goldberg Machine Contest Website and Rules
- Evaluation form adapted from Rube Goldberg Machine Contest Rules 2015

**Evaluation:**      Project Performance 200 points      Written Evaluation 100 points