



# STEM CHALLENGE

Science | Technology | Engineering | Math

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Today's Challenge: **A Chain Reaction**

You must construct a complicated device to solve a simple task. This device/mechanism will cause a chain reaction.

This device is known as a *Rube Goldberg machine*, which is an apparatus that is deliberately over-engineered to perform a simple task through a chain reaction of smaller tasks. →

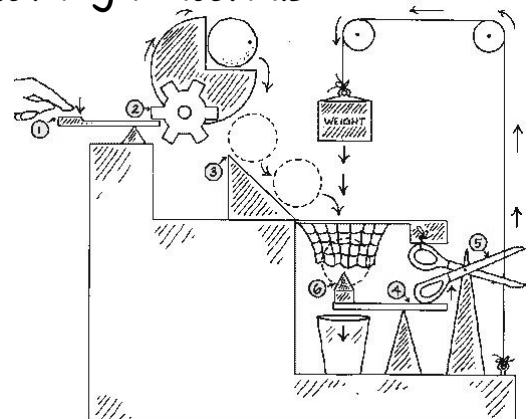
### Sample Tasks

- Place a coin into a piggy-bank
- Zip a zipper
- Turn on a radio
- Drop a bottle in a recycling bin
- Water a plant
- Plant seeds in a pot of soil
- Fill a glass with water
- Shut a door
- Squeeze toothpaste onto a toothbrush
- Pop a Balloon

For this challenge, you can only use the following materials:

- trash or recyclable materials
- regular classroom supplies (rulers, pens/pencils, paper clips, tape, etc.)
- cardboard, construction paper
- various kitchen items (forks, pans, aluminum foil)
- paper tubes, straws, pipe cleaners

\*\*\* any "everyday items" you want to add to the list





**OUTCOME:**

What were the results of this challenge?

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**EVALUATE:**

On a scale of 1 to 10, how well did you accomplish this challenge? Why would you give yourself this grade?

Your Grade

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What would do differently next time?

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**REFLECT:**

How might the skills to complete this challenge carry over into real-world applications?

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