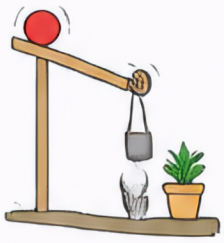

HOMESCHOOL SCIENCE LAB SHEET

BUILDING A RUBE GOLDBERG MACHINE

Name: _____

Date: _____

Experiment #: _____

A Rube Goldberg machine is a chain reaction that uses simple machines and everyday materials to perform a task in a creative, often complicated way.

GOAL

Design and build a Rube Goldberg machine that completes a specific task through a series of cause-and-effect steps.

My Machine's Final Task (The End Goal):

_____

_____

MATERIALS

Check the materials you plan to use.

- ☐ Cardboard / Boxes
- ☐ Tape
- ☐ String / Yarn
- ☐ Rubber Bands
- ☐ Paper Cups
- ☐ Books
- ☐ Dominoes
- ☐ Marbles / Balls
- ☐ Craft Sticks
- ☐ Plastic Bottles
- ☐ Pencils / Pens
- ☐ Clips
- ☐ Ramps / Boards
- ☐ Pulley
- ☐ Other: _____

_____

PLAN YOUR MACHINE

List the steps your machine will take from start to finish.

1. _____
2. _____
3. _____
4. _____
4. _____
6. _____
6. _____
8. _____
9. _____
10. _____

SKETCH YOUR DESIGN

Draw a diagram of your Rube Goldberg machine. Label the main parts and show the direction of motion with arrows.

TEST & OBSERVE

Test your machine. Record your results.

Test Attempt #	Did It Work? (Yes / No)	What Happened?	What Would You Change?
1			
2			
3			

REFLECT

What was the most challenging part of building your machine? _____

_____

What did you learn about cause and effect, energy transfer, or simple machines? _____

_____

If you had more time or materials, what would you improve or add? _____

_____

★ BE CREATIVE. HAVE FUN. KEEP EXPERIMENTING! ★