

# CREATEKIT™

## ***Rube Goldberg Machines Lesson Directions Overview***

### **Equipment List**

- 100 Cardboard Sheets
- 4 Rolls of Tape
- 1 Pack of Markers
- 400 Rubber Bands
- 200 Sheets Construction Paper
- 6 Rainbow® Golf Balls
- 500 Straws
- 12 STEM Supplies® Wheels
- 25 Spools (Varying Sizes)
- 168 Dominoes
- 6 Cups
- 1 Spool String
- 40 Binder Clips
- 1000 Popsicle Sticks

### **Learning Objectives**

1. Students understand who Rube Goldberg was and what a Rube Goldberg machine is.
2. Students can define simple and complex machines and name examples of each.
3. Students work together to conceptualize, sketch, and then build their own unique Rube Goldberg machine while meeting the criteria selected by the teacher.

### **Grade Levels: 3-8**

### **Vocabulary Covered**

- Force
- Work
- Simple Machine
- Complex Machine
- Rube Goldberg Machine
- Engineering Design Process
- Prototype

### **Next Generation Science Standards**

- 3-PS2-4
- 3-5-ETS1-1
- 3-5-ETS1-2
- 3-5-ETS1-3
- 4-PS3-4
- MS-ETS1-1
- MS-ETS1-2
- MS-ETS1-3
- MS-PS2-2
- MS-PS3-5