



## ACTIVITY

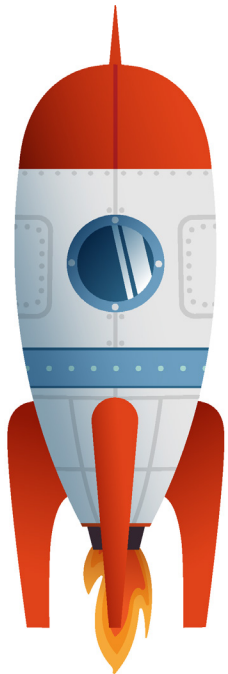
# Rockets

*The following activity aligns with Utah SEEd Standard 3.3.1*

This activity involves students building their own self-propelled rockets and testing different variables to investigate the effect of balanced and unbalanced forces on an object. Students will use provided material to construct a rocket of their design and test how variations in force applied and variation in design affects its ability to fly. The worksheet on the next page is provided for students to record their observations.

### Materials Needed:

- Piece of paper
- Tape
- Scissors
- Drinking Straw
- Tape measure



### Building Instructions:

- Cut your piece of paper into fourths
- Wrap your cut paper around your straw and tape the seam of the paper.
  - Your paper should be able to slide off the straw easily.
- Slide your paper rocket off the straw and pinch the tip of your rocket.
- Tape the tip shut so no air can escape.
- Cut another piece of paper into triangles for the fins of your rocket. Tape the fins to the bottom of the paper rocket.

Your rocket is now complete! To launch it, slide the rocket back on the straw and blow into the other end of the straw.

Instruct students to fill out to use the worksheet as they build and test their rocket.



# Rocket Science



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

**1. Describe the steps you took to build your rocket:**

**2. Launch your rocket and measure how far it flew using a yard stick. Write down your measurement below:**

**3. Make modifications to your rocket to get it to fly farther. Use supplies on hand and get creative! Test your modifications and write down your results below:**

