



KIDS UNDER CONSTRUCTION'S COVID-19



# VIRTUAL LEARNING ACADEMY

## DAY 1: DESIGNING MARSHMALLOW SPACE LANDERS

### MATERIALS NEEDED FOR TODAY (PER CHILD):

- 2 large marshmallows OR 2 ping pong balls
- 1 9-ounce plastic cup
- 10 cotton balls
- 1 8-inch paper plate (you can cut it down if yours is bigger than that)
- 6 pipe cleaners (any color)
- 6 popsicle sticks
- 6 index cards
- scissors

### DIRECTIONS:

Using the engineering design process on the right, create a lunar lander that will keep 2 ping pong balls (or 2 large marshmallows) safe inside a cup when it is dropped from different heights. The balls/marshmallows must be placed inside the cup, nothing may cover the top of the cup, and the cup must be taped to the plate. All building must take place under the landing platform and only the materials listed above may be used.

**FAMILY DISCUSSION: WHAT DID YOUR FAMILY LEARN ABOUT SHOCK ABSORPTION? WHAT DID YOUR FAMILY LEARN ABOUT STABILIZATION? JOIN THE DISCUSSION AND SHARE YOUR FINDINGS AT:**

**FACEBOOK.COM/KUCINC/**

**1**

**IDENTIFY THE PROBLEM**

**2**

**BRAINSTORM**

**3**

**DESIGN**

**4**

**BUILD → TEST & EVALUATE → REDESIGN**

**5**

**SHARE**

