

# Raindrops Roll

## RIF EXTENSION ACTIVITIES FOR EDUCATORS

STEAM-THEMED: SCIENCE, TECHNOLOGY, ENGINEERING, ART, MATH



*For Younger Students*

### SCIENCE

#### WATER CYCLE WONDERS

Materials: plastic baggies, water, tablespoons, tape

Have students measure 2 tablespoons of water into a plastic bag, blow air inside the bag, then seal it shut. Tape some of the bags to a sunny window and some to a shaded spot. Students should check baggies after a day and record any changes they observe.

Were the changes different for baggies in different locations? What impact did the sun have on the baggies? Explain.



### TECHNOLOGY, SCIENCE, ENGINEERING QUENCH YOUR THIRST

Materials: 2 clear jars, coffee filter, rubber band

Can you drink the rain that falls from the sky? Our drinking water goes through elaborate filtration systems before coming to our faucets. Create a simple filtration experiment by placing a coffee filter on top of an empty jar and securing with a rubber band. Place this jar and another jar without a filter outside on a rainy day. After the rain has stopped, observe the water collected in each jar. Do you notice any differences? Why do we need to filter rain water before we drink it?

### ENGINEERING, SCIENCE, TECHNOLOGY RAIN GAUGE CONSTRUCTION

Materials: clear cup, popsicle stick, ruler, sticky tack, permanent marker

Lay the popsicle stick next to a ruler. Use a marker to create measurement lines on the stick. Attach the stick to the side of the cup using sticky tack. Place the cup outside. Be sure to secure the cup in dirt or sand so it won't tip over. After a rain,

retrieve the cup and measure how much rain fell. Check a weather website to see if your rain measurement matches the official rainfall recorded for your area that day. Why is it important to track how much rain falls when and where?

### ART

#### RUNNING RAINDROPS

Materials: markers, spray bottles, water, thick paper

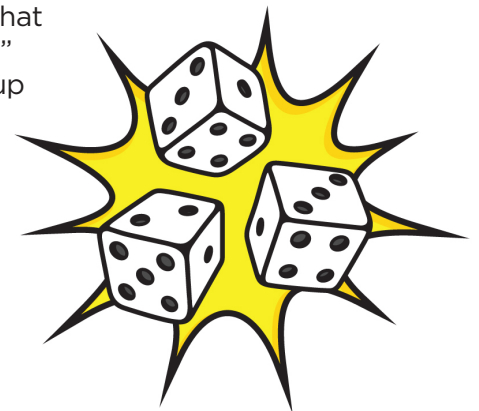
Have students create a picture using markers. When finished, use spray bottles filled with water to simulate raindrops falling onto the picture. What happens to the picture when it gets wet? What new colors are formed by the "raindrops" making the ink run?

### MATH

#### RAINDROP ROLL

Materials: eye droppers, water, small clear cups, dice

Fill a cup 1/4 full of water. Have a student roll one to four dice for each turn. The student should add to find the sum of the rolled dice. Once the sum has been found, the student should transfer that many "raindrops" into an empty cup using an eye dropper. Keep rolling and adding until all (or most) of the water has been transferred to the empty cup.



Reading Is  
Fundamental