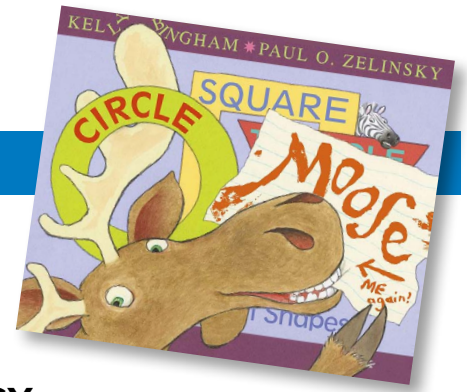


# Circle, Square, Moose



## RIF EXTENSION ACTIVITIES FOR EDUCATORS

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

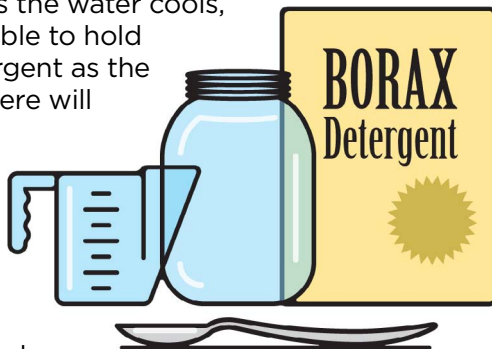
### SCIENCE

#### CIRCLE CHEMISTRY

Materials: empty peanut butter jar, water, Borax detergent, pipe cleaner, pencil, measuring cup/spoon

In jar, dissolve 3 tablespoons of Borax detergent into 1 cup of *hot* water. Discuss what is happening to the detergent as it dissolves. Once mixed, shape pipe cleaner to form a small circle at one end. Wrap opposite end around pencil to keep it secure. Place pencil across the top of the jar so the pipe cleaner circle is submerged in water.

Explain that as the water cools, it will not be able to hold as much detergent as the hot water. Where will the detergent go? Have students guess. The next day, remove the pipe cleaner from the jar and see what happened!



### TECHNOLOGY

#### VIRTUAL GEOBOARD

After students have practiced with hands-on Geoboards, let them take their imaginations to a virtual level! Visit [www.mathlearningcenter.org/web-apps/geoboard](http://www.mathlearningcenter.org/web-apps/geoboard) to play online for free, or <http://catalog.mathlearningcenter.org/apps> to download the free app.

### ENGINEERING

#### SPAGHETTI SHAPES

Materials: spaghetti, mini-marshmallows

Let students experiment with making 2D and 3D shapes with uncooked spaghetti noodles and mini-marshmallows. Students can snap the noodles to desired lengths and join them together using marshmallows to create a wide variety of shapes. When finished, have students write a description of their shape(s) for a classroom shape display.

### ART, TECHNOLOGY

#### ANGULAR ART

Materials: construction paper shapes, paper, glue, markers, crayons

Have students browse the paintings of artist Paul Klee, focusing on how he used shapes:

[www.artinthepicture.com/artists/Paul\\_Klee](http://www.artinthepicture.com/artists/Paul_Klee).

Have students create their own shape-inspired masterpieces!

### MATH

#### TAPE A SHAPE

Materials: masking or painter's tape

##### Shapescotch

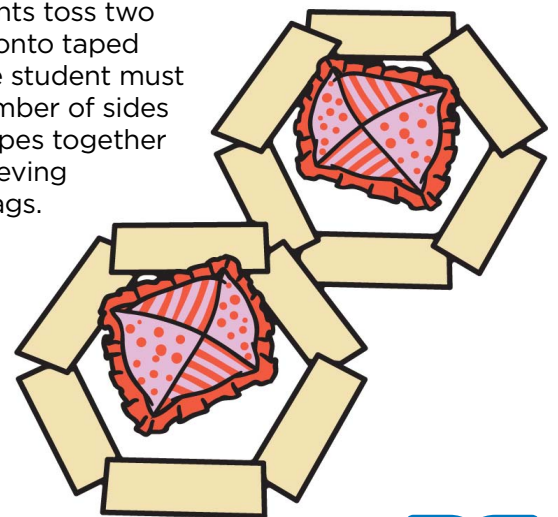
Tape outlines of various shapes on the floor. Have students toss a bean bag onto a shape. They must hop to the shape, name it, describe it, retrieve the bean bag, and hop back to the starting point.

##### Super Sort

Have students sort objects or pictures and place them in taped shapes on a table or floor.

##### Toss & Add

Have students toss two bean bags onto taped shapes. The student must add the number of sides of both shapes together before retrieving the bean bags.



Reading Is  
Fundamental