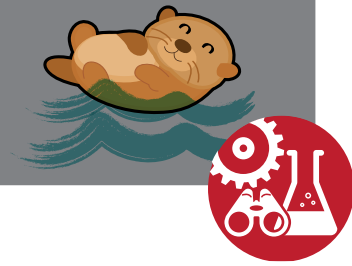


# PENDULUM PAINTING

## RASCAL'S RIVER Creative Expression



### THE ADVENTURE:

Build a pendulum, and then use gravity and momentum to create some unique art by swinging paint. A pendulum is made by hanging a weight on a string. The weight – which is called a “bob” – swings because of the force of gravity.

### PLAN:

- Where will you do this adventure?
- What do you know about pendulums? Where do you see pendulums in the real world?
- How will you build a stand for your pendulum? What materials will you need?
- What materials and tools will you need to build your pendulum?
- How will the paint get out of the pendulum bob?

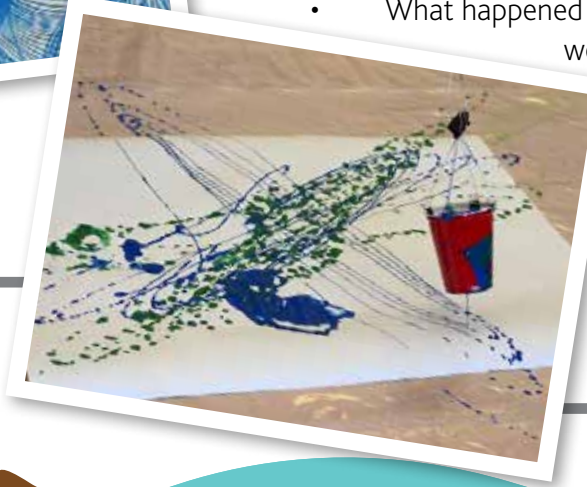


### DO:

- Build your pendulum and pendulum bob.
- Mix water and paint so it will flow through the pendulum bob.
- Fill the pendulum bob with your paint and water mixture.
- Pull the bob to the side, open the nozzle, and let it fly!
- Interrupt the motion of the pendulum bob to change the design on your paper.
- What do you notice about the pattern on your paper?

### REVIEW:

- What do you know now that you did not know before?
- How did you change the patterns on your paper?
  - What happened to the pattern on the paper as time went on?
- What did you like about this adventure? What did you not like? How would you do this adventure differently?
- What elements of STEM did you use in this adventure? Science? Technology? Engineering? Mathematics?



# PENDULUM PAINTING

## MATERIALS:

- Liquid paint
- Water
- Large paper
- Materials for the pendulum stand (chairs, broom handles, branches, etc.)
- A container for the pendulum bob (water bottle, glue bottle, cup, etc.)
- String

## SAFETY TIP:

- How can you make sure you are using any tools safely?
- Will your pendulum stand fall onto any Beaver Scouts as the pendulum swings?

## ONLINE RESOURCES:

- Pendulum Painting Made Easy
- Motion of a Pendulum