**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?
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