

The Properties of Water
Lakes Environmental Association
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With support from the
Casco Bay Estuary Partnership

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Grade Level: 4-8th grade depending on components of lesson (anyone can watch the video!)

Content Areas: Science, Environmental Education, ELA, Art

Method: Students watch a video and answer questions. Students also have an opportunity to duplicate experiments at home/in school.

Objectives: Students will (1) be able to define two major properties of water and (2) demonstrate understanding by completing three demonstrations.

Activity Time: 30 minutes for videos and experiments, 15 minutes to fill out the worksheet. More time for extensions if interested.

Background:

Water is arguably one of the most important substances on Earth and has a combination of properties that make it unique.

Materials:

[The Properties of Water video on youtube.com](#)

[Google Form](#) or [Printed Worksheet](#) - teacher will need to copy the Google Form to their Drive to accept submissions.

#1 - The Paperclip

- Small metal paperclip (no coating)
- Container of water
- 2 inch square of tissue paper

#2 - The Penny

- A penny
- An eye-dropper, pipette, or straw
- A small container of water
- A sponge or cloth (for the mess)

#3 - The Paper Towel

- Cut up paper towels (regular size cut into 8 pieces)
- Container of water
- Food coloring (optional)
- Markers (optional)

Procedure:

This lesson can be done remotely or in the classroom. All experiments can be done by students at home but it is also easy for teachers to set them up in the classroom.

Students will:

1. Watch the “Water Properties” video
2. Students can conduct the experiments along with the video or just watch and answer the questions
3. Students should either fill out the online Google Form or the paper worksheet to hand in

Extensions:

1. Have student write a short story describing their life without adhesion or cohesion
2. Make a video of the student doing their own water experiment

