

## Climate Change Lesson 1 - Water Cycle

### Objectives

- Students will use prior knowledge and new knowledge to create their own water cycle through art and/or drama

### Vocabulary

- Atmosphere
- Condense
- Evaporate
- Precipitation
- Water Cycle

### Materials

Chart paper, construction paper, markers, paint, recycled materials collected from home and the school. Materials for extra activity: Water bottle, plastic wrap, soil, seed/seedling

### Warm Up

1. Display the MapMaker Interactive and make sure students understand that there is more ocean than land on the earth's surface.
2. Discussion question: *Does the Earth have more land, or more ocean?* Students should notice that there is more ocean than land. Explain that the ocean covers almost three-quarters of Earth's surface and is very deep. It contains almost all the water on Earth—about 97%. That's a lot of water!
3. Then ask: *Where do you think rain comes from?* Have student form their own answers.

### Lesson

Play “Brain POP Water Cycle” movie. Discuss the elements of the water cycle with students and clarify any misconceptions.

### Assignment

Have students create or act out the water cycle in groups using recycled materials and/or through body movement. Split class into groups of three to four. Each student in each group will be assigned a stage of the water cycle (Evaporation, Condensation and Precipitation) and will have to work together in their group to either act out or illustrate the water cycle in their own way.

Extension:

Students have to create their own water cycle. In partners, students will take a clear plastic container and fill it partway with soil. Then they can plant a seed or a small seedling or plant



cutting. They will then water the plant and then cover the top with plastic wrap or with a plastic lid. Ask students to find a sunny place to put their container and have students observe what happens. Students should see condensation on the sides of the container.

### **Wrap Up**

Ask the question: *Why is water important?*

Discuss how they are not only the source of most of the water we use, but also a place where many animals live. If we want to keep our planet healthy, we must take good care of the oceans.

### **Resources**

<http://mapmaker.nationalgeographic.org/>

<https://www.nationalgeographic.org/activity/earths-water-cycle/>

<https://educators.brainpop.com/bp-jr-topic/water-cycle/>

<http://www.resources4rethinking.ca/en/resource/water-water-everywherebut-not-a-drop-to-drink>

