



# Professor H<sub>2</sub>O

**Target Audience:** K-5<sup>th</sup> grade

**Description:** Youth explore properties of water, habitats involving water and creatures that live in the water by participating in large and small group activities, making models, exploring samples, and watching a video.

**Format:** Each session can be presented in one class period from 45-60 minutes.

Session 1: Water Density

Youth work in cooperative small groups to complete an exploratory activity involving objects that sink and float in water. Students then discuss in a large group what they found and discuss why some objects sink and some objects float.

Session 2: Going Underground with Ground Water

Students discuss the concept of groundwater and make a model of what this looks like in nature.

Session 3: Sand on a Stage

Students brainstorm knowledge about sand and where it comes from in a large group. Students complete a worksheet about variations in sand by exploring actual samples of sand from California beaches.

Session 4: Build a Sandy Beach

Students build their own sandy beach by making creatures that live in the different levels of the ocean and sand. Students place their creatures on a model beach.

Session 5: Magic School Bus: Wet All Over

Youth watch a video about the water cycle and make a model of the filtration system to learn about how we get the water we drink.

Session 6: Kelp Critters

Youth create an underwater kelp forest by making organisms that have kelp in their habitats. Students learn about how organisms use kelp to survive.

The “Professor H2O” curriculum and activity kit can be borrowed for one month.