

Service Authority Virtual Curriculum

Online-friendly Lessons for Fall 2020

While everyone is learning virtually, the Service Authority's Community Outreach Team is offering 20-to-30 minute video presentations on a variety of water and wastewater-related topics. Lesson plans are SOL-aligned and focused on students in grades K-3 and 4-6. Each lesson includes two companion worksheets to reinforce the content.

Pre-recorded versions of each lesson are available or you can schedule a LIVE presentation for your students via our sign-up here: <https://rb.gy/lewjse>



The Big Stink

SOL Targets:
Resources, Pollution
& Conservation

Sail along on this riverboat adventure with our friend Bart the Rat and learn about the true story of why we have our sewer system. Students will see pollution added to a "river" before their eyes and learn how they can help protect our water.

Appropriate for grades K-2.
Pre-recorded or LIVE version available.



Erosion Model

SOL Targets:
Erosion, Weathering &
Protecting our Resources

Using the forces of wind and rain on our erosion model, kids will get an up-close look at how weathering and erosion can change a landscape and pollute our environment. Students will learn ways they can help protect the earth and understand what is happening to the land and water around them.

Appropriate for grades 2-3
Pre-recorded or LIVE version available.
Pre-recorded version recommended.



Build-A-Filter

SOL Targets:
Resources, Human
Impact & Conservation

Discover everything it takes to clean our drinking water and watch as we build an at-home version of our local drinking water plant. As we walk through each treatment step, students will see each process in action and learn more about the importance of water as a natural resource.

Appropriate for grades 3-5
Pre-recorded or LIVE version available.



Enviroscape

SOL Targets:
Resources, Human
Impact & Watersheds

See the journey of water from source to tap and back again with this tabletop tour of drinking and wastewater treatment plants. Students can get an overview of each step in the drinking and wastewater cleaning processes and see how water travels through and impacts the environment.

Appropriate for grades 3-6
Pre-recorded or LIVE version available.
Pre-recorded version recommended.



Aquifer Model

SOL Targets:
Resources, Human Impact
& Earth's Composition

Get up close to the water beneath our feet in this cross section of an aquifer and a well system. Students will see how water moves through different sediments, rises due to pressure and how it can be affected by surface pollution.

Appropriate for grades 5-6
Pre-recorded or LIVE version available.



3D Watershed

SOL Targets:
Watersheds, Protecting
our Resources &
Pollution

Bring watersheds indoors with this 3D landscape model. As we add elements like rain and pollution, students will see how all water is connected and how pollution can travel from the highest mountain to the lowest valley.

Appropriate for grades 5-6
Pre-recorded or LIVE version available.



Pre-recorded lesson material can be requested as close to one day in advance.
Live presentations require scheduling at least one week prior to desired presentation day.

For more drinking and wastewater fun, visit H2Gokids.org!