

## DC Water Education Offerings

DC Water offers lessons in various categories for students in grades K – 12. Below is the list of lessons currently available. Materials will be provided by DC Water for most activities. Please schedule lessons at least two weeks in advance by emailing [education@dcwater.com](mailto:education@dcwater.com)

### K – 2

#### **Water Conservation**

[Water Everywhere](#)—Instructor explains what DC Water does, the origin of drinking water in the District and ways to use water wisely in the home.

#### **Wastewater Treatment**

[Wastewater Treatment explanation and demonstration](#)—instructor explains the wastewater treatment process through video and other visual aids.

#### **Pollution**

[Recycling](#)—Instructor discusses the importance of recycling to the health of our area watersheds and provides students with a hands-on experience in properly disposing of waste.

[Who Polluted the Potomac?](#)—Students are told a story about how development around the Potomac has affected the health of the river. Students simulate polluting the river using a large container of water and household items. After the story, students are engaged in discussion about how human activities can contribute to the health or decline of our waterways.

#### **The Water Cycle**

[Water Cycle in a Bag](#)—The water cycle is explained to students as they create a personal model of the water cycle using a Ziploc bag, markers, and a drinking cup.

[Water Cycle Craft](#)—The Water cycle is explained to the students as they create a model from foam sheets and cut-outs.

### 3 – 5

#### **Water Conservation**

[Water Everywhere](#)-- Instructor facilitates student discussion regarding ways to conserve water. Students receive a “water wheel” which provides a visual way to remember tips discussed during the lesson.

#### **Wastewater Treatment**

[Wastewater Treatment explanation and demonstration](#)—instructor explains the wastewater treatment process through video and a demonstration that can be recreated at home using household items.

## **Water Quality/Pollution**

[DC Clean Rivers Project](#)—Students are informed about the work DC Water is doing to combat combined sewer overflows in the District as well as exposed to potential career opportunities available in relation to this massive public works project.

[“Here Comes the Garbage Barge”](#)—Instructor reads aloud *Here Comes the Garbage Barge* by Jonah Winter, then are allowed to design and build a boat similar to our skimmer boats *Flotsam* and *Jetsam* that can collect garbage from the Anacostia.

[Enviroscape](#)—Instructor discusses and demonstrates watershed/nonpoint source pollution with the help of students using a tabletop interactive model.

[Who Polluted the Potomac?](#)—Students are told a story about how development around the Potomac has affected the health of the river. Students simulate polluting the river using a large container of water and household items then are able to use materials provided to attempt to clean the water and restore the river to its original state. After the experiment, students are engaged in discussion about how human activities can contribute to the health or decline of our waterways.

5-6

## **Wastewater Treatment**

[Facebook Live!](#)—Students are led on a virtual tour of Blue Plains while simultaneously participating in a hands-on simulation of the wastewater treatment process at their school.

6—8

## **Water Quality**

[pH Testing Lab](#)-- Up to 20 students are able to engage in a lab activity where they test and compare the pH of various water samples.

## **Pollution**

[DC Clean Rivers Project](#)—Students are informed about the work DC Water is doing to combat combined sewer overflows in the District as well as exposed to potential career opportunities available in relation to this massive public works project.

9-12

## **Civic Engagement/Life Skills/Math**

[How to Calculate a Water Bill](#) – Students are explained the way DC Water’s water and sewer rate structure works and utilize problem solving skills to calculate water bills in various scenarios.

**Pollution**

[DC Clean Rivers Project](#)—Students are informed about the work DC Water is doing to combat combined sewer overflows in the District as well as exposed to potential career opportunities available in relation to this massive public works project.