



Water & Energy Education Program
Class Visits
Two 60-minute lessons
3rd Grade

Be a Water and Energy Hero!

Lesson 1 Summary:

This hands-on, engaging lesson uses visuals, movement, games, and models to teach students about storm drain pollution, our water system, drought, and water conservation.

Essential Question:

- How does the water we use every day connect us to the Russian River and nature?

Learning Objectives:

- Students will know where their water comes from and how it gets to homes.
- Students will understand why water conservation is important and identify ways to use less water.
- Students will recognize examples of storm drain pollution and how to prevent it.

Activities:

- Students are introduced to our local water system using visuals and movement.
- Students participate in a pair/share activity about who else depends on water from the Russian River and drought, helping them understand why conservation is important.
- Students learn simple ways to use less water by watching a video and playing Water Conservation Bingo.
- Students use an instructor-led “Fred the Fish” creek model to observe how storm drains can cause water pollution, examine its effects on fish, and discuss strategies to prevent pollution.

In Preparation for our Visit:

- The Sonoma Water educator will arrive at your classroom 10-15 minutes early to set up their teaching materials.
- The Google Slideshow presentations will be emailed to you. We would greatly appreciate it if you could have our presentation open when we arrive. Lesson 1 requires sound. If you do not have a computer, please let us know so we can make other arrangements.
- If possible, it would be helpful to have a small table or desk near the front of the room

for the educator to set hers or his teaching materials on.

- Have your students clear everything off of their desks before the lesson begins.
- Please do not leave your classroom while the Sonoma Water educator is teaching.
- Review [vocabulary](#) with your students.
- Optional - Distribute [Parent Guardian Letter - English.pdf](#)
- Optional - Distribute [Parent Guardian Letter - Spanish.pdf](#)

Materials Provided by Sonoma Water Educator:

- [Fred the Fish Worksheet](#)
- [Fred the Fish Worksheet - Spanish](#)
- [Water Follies Worksheet](#)
- [Water Follies Worksheet - Spanish](#)
- [Water Conservation Bingo Playing Cards](#)
- [Water Conservation Bingo Playing Cards - Spanish](#)

Additional Resources to Extend Learning:

Storm Drain Pollution

- [Fred the Fish Lesson Plan](#)
- [Storm Drain Background Information](#)
- [High School Video Contest Winners \(4:14\)](#)
- [Salmon Life Cycle Video \(6:22\)](#)

Water Conservation

- [Water Follies: A Soak Opera Video \(6:52\)](#)
- [Water Conservation Bingo Instructions](#)
- [Water Conservation Bingo Playing Cards](#)
- [Water Conservation Bingo Question Cards](#)

Where does our tap water come from?

- [Sonoma Water's Water Supply System \(5:06\)](#)

Drought

- [Current Water Supply Levels](#)

