

# Curriculum Alignment

## A Good Fit!

Each workshop looks at systems and models related to the cycle of Everett's water from its source to Puget Sound.

The Everett water workshops support Common Core, Next Generation Science Standards and Washington State K-12 Integrated Environmental and Sustainability Standards.

## H<sub>2</sub>O & I and Sewer to Sound

Lab workshops that allow students to:

- Ask questions and define problems
- Use models
- Construct explanations and design solutions

## H<sub>2</sub>O & Why

Classroom workshop that uses a small group approach that allows students to:

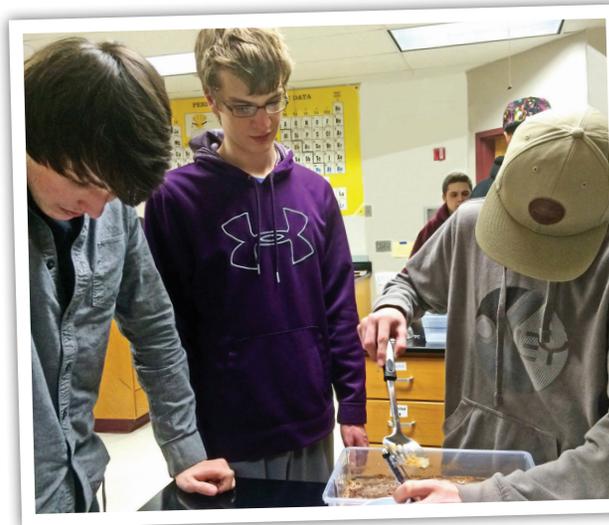
- Analyze and interpret data
- Examine primary and secondary sources
- Synthesize and summarize complex information
- Cite evidence to support their analysis

# Register Today!

The City of Everett is pleased to present FREE water education programs! Our workshops connect students to water conservation and environmental issues in the context of our local systems.

## We come to you!

Our workshops are presented in your classroom.



**Registration is on a first-come, first-served basis.**

To schedule workshops, call 206-583-0655, toll free 1-800-227-0977 or email [waterworkshops@triangleassociates.com](mailto:waterworkshops@triangleassociates.com)

HANDS-ON CLASSROOM

# Water Workshops

Conservation

Wastewater



**FREE for high school students in Everett schools**

**2016-2017 SCHOOL YEAR**

Teacher Resources

[www.everettwa.gov/teachers](http://www.everettwa.gov/teachers)

Workshops brought to you by the City of Everett.

PRINTED AUGUST 2016



# H<sub>2</sub>O & I

## Observation & Inquiry Lab

- Conservation
- Grades 9-12
- 50 minutes

*This workshop connects with biology, chemistry and environmental systems design classes.*

### Requires lab stations with running water

Students conduct experiments to model the water filtration process. They learn how particles, viruses, bacteria and parasites such as *Giardia* are removed. Students use their findings to analyze their water-use habits.

### Key lesson messages:

- Where drinking water comes from
- How drinking water is made safe for use
- Why conservation is important
- How actions impact the environment

*“Thank you for coming! I would not have been able to design something this effective. The kids really seemed to learn from the experience and it helped an abstract process become more tangible.”*

–11th/12th grade teacher



*“Hands-on activities were great and these advanced placement chemistry students just made alum crystals in the lab, so great connection for them.”*

–12th grade teacher

# H<sub>2</sub>O & Why

- Conservation
- Grades 9-12
- 50 minutes

*This workshop is perfect for environmental science and social studies classes.*

Students learn why a reliable source of water is important and how it supports their lifestyle.

Working in small groups, students explore evidence packets that illustrate historic and current water use. Then they use this evidence to create an energetic presentation for the class.

### Key lesson messages:

- How the water system protects public health
- How the water system provides fire protection
- How the water system supports the economy
- How the water system impacts quality of life
- Why conservation is important



*“It opened up some eyes to issues that many people don't think about. Most people in this country take clean water for granted.”*

–11th/12th grade teacher

# Sewer to Sound

- Wastewater
- Grades 9-12
- 50 minutes

*This workshop connects with biology and environmental systems design classes.*

### Requires lab stations with running water

Students create wastewater in the lab, learn where it goes and examine how it is treated.

They draw conclusions about the impact of what goes down the drain—what the system is designed to handle and what ends up in Puget Sound.

### Key lesson messages:

- What happens to what goes down the drain
- How pollutants are removed by various types of treatment
- Why controlling what goes down the drain is important
- How individual choices impact the ecosystem and Puget Sound



*“Wastewater treatment is a valuable lesson. I have waited years for an activity like this.”*

–11th/12th grade teacher