



FREE Virtual Water Programs with King County and IslandWood

King County and Islandwood have joined forces to offer STEM-focused and NGSS-aligned virtual wastewater and stormwater programs to schools in King and Snohomish County*. These LIVE synchronous lessons include hands-on demonstrations and modeling, outdoor observations, and extension activities designed to connect to each students' interests, identities, and home and family experiences. **some geographic limitations apply*

Registration is open now until June 2021

Wastewater Engineers Virtual Series (4 lesson series, aimed at grades 4-6)

Click here to register here: <https://go.oncehub.com/ElementaryPrograms>

Questions contact: katelyn.leeuw@kingcounty.gov

How do we impact the water in our communities? What are we doing to clean it up and what could we do differently? Students will learn how the choices they make on a daily basis impact the water cycle. Sessions led by King County educators are designed for students and families to use the engineering design process to explore the impacts that humans have on our water system. Students will explore King County's wastewater treatment plant and learn how they can become stewards of their water system.

- Lesson 1 - What is wastewater and How are You Connected to It? (approx. 45mins)
- Lesson 2 - Wastewater Engineering Challenge Hands-on Lab (approx. 45mins)
- Virtual Wastewater Treatment Plant Tour Video (recorded-approx. 30mins)
- Lesson 3 - Wastewater Stewardship - What You Can Do! (approx. 45mins)

When It Rains, It Pours (3 lesson series, aimed at grades 3-5)

Click here to register <https://islandwood.tfaforms.net/310869>

Questions contact: KayLani Siplin kaylanis@islandwood.org

Rain is essential to our lives, especially in a region where it happens so often! This series will build students' understanding of the interactions that stormwater has with the ecosystems and communities they inhabit. Synchronous sessions led by IslandWood educators are designed for students and families to engage in activities they can do at home. These programs for Seattle schools are paid for by additional support from Seattle Public Utilities.

- Lesson 1 - What is stormwater and how does it impact humans? (approx. 45 min)
- Lesson 2 - How does stormwater impact our ecosystems? (approx. 45 min.)
- Lesson 3 - How can we engineer solutions to stormwater problems? (approx. 45 min.)

Some of the feedback from teachers and families:

The hands-on activities we perfect. Simple enough to do at home but really clear on what it was trying to teach.

It was so well organized. The info was clear and well-presented. The photos showed the students exactly what was discussed. The hands-on activities were perfect. I think you nailed it!

The kids learned a lot but I did too. I was listening in while doing other things in the kitchen and learned what we can do to help the environment-I am changing our household cleaners and telling everyone not to use flushable wipes. We even looked up fatbergs as suggested. GROSS! Great class!

The kids stayed engaged the whole time with the format of questions and experiment.

It was engaging for the age group, with good activities and water conservation messages and best practices.



Sharing a prediction before the experiment begins



Creating a model of 'wastewater' at home and engineering a way to clean it