



Water Resource Center

You & H2O Field Trip

Rotate through NGSS-aligned stations to explore the natural and human/engineered water cycle. Learn how water shapes our lives and understand how humans impact the Spokane River Watershed and the Spokane Valley-Rathdrum Prairie Aquifer.

Sample Field Trip Activities

The Incredible Water Journey

Transform into a water drop and take an incredible journey through the water cycle to learn where water can be found on earth and how it changes states.

DCIs: PS2.C, ESS2.A, ESS2.C

Science & Engineering Practices: Developing and Using Models

Crosscutting Concepts: Systems and System Models, Energy and Matter: Flows, Cycles and Conservation

Pump it Up!

Using an aquifer model, students will explore how human use, population growth and seasonal precipitation patterns impact aquifer.

DCIs: ESS2.A, ESS2.C, ESS3.C

Science & Engineering Practices: Developing and Using Models, Analyzing and Interpreting Data

Crosscutting Concepts: Systems and System Models

You Are What You Eat!

Through an interactive game, students take turns role-playing animals and plants in the Spokane River food web to illustrate how energy and pollution are transferred in the food chain.

DCIs: ESS2.A, ESS2.C, ESS3.C

Science & Engineering Practices: Developing and Using Models

Crosscutting Concepts: Cause & Effect, Systems and System Models, Energy and Matter: Flows, Cycles, and Conservation, Using Mathematics and Computational Thinking

From Flush to Finish

Take a virtual tour of the wastewater reclamation process to learn how water is cleaned and waste is transformed. Then, do an experiment to see what materials can be flushed down the toilet.

DCIs: LS1.C, ESS3.A, ESS3.C

Science & Engineering Practices: Asking Q's, Defining Problems, Developing and Using Models, Analyzing and Interpreting Data

Crosscutting Concepts: Cause & Effect, Systems and System Models, Scale, Proportion, and Quantity

Stormwater Maze

Students will take turns playing the part of stormwater and pollutants as they navigate through a life-size stormwater maze.

DCIs: LS1.C, ESS3.A, ESS3.C

Science & Engineering Practices: Asking Q's, Defining Problems, Developing and Using Models,

Crosscutting Concepts: Cause and Effect, Systems and System Models

Where Does Your Water Shed?

Students will learn about the Spokane River Watershed by exploring a variety of maps and making their own watershed model.

DCIs: PS1.A, ESS2.A, ESS2.C, ESS3.A, ESS3.C

Science & Engineering Practices: Asking Q's, Defining Problems, Developing and Using Models,

Crosscutting Concepts: Cause and Effect, Systems and System Models

Grades 3 - 5

2 hours

Sign-up online:

[www.spokanecounty.org/
FieldTripRequest](http://www.spokanecounty.org/FieldTripRequest)



Spokane County
Water Resource Center

Questions? Contact Toni Taylor | tntaylor@spokanecounty.org | (509) 477-7577



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Sample Field Trip Activities Continued...

Flow Like a River

Explore erosion, deposition and flooding with a hands-on stream table. Then, put on your engineering hat to design a solution to minimize the impacts of erosion and flooding.

DCIs: Asking Q's, Developing and Using Models, Planning and Carrying out Investigations
Science & Engineering Practices: ESS2.A, ESS2.C
Crosscutting Concepts: Patterns, Scale/Proportion/and Quantity, Systems and system models, Energy and Matter: Flows, Cycles, and Conservation Stability and Change

The Long Haul

Learn how water is transported from the Aquifer through a network of engineered wells, pumps, and pipes. Students will model how pumps and pipes compare to other methods of water collection used historically and in other regions of the world.

DCIs: ESS2.A, ESS2.C, ESS3.C
Science & Engineering Practices: Developing and Using Models, Analyzing and Interpreting Data
Crosscutting Concepts: Systems and System Models, Structure and Function

Can you Clean the Water?

In this hands-on Engineer Design Challenge, work together with your teammates to clean dirty water by working within time, financial and material constraints.

DCIs: ESS3.C, ETS1.B, ETS1.C
Science & Engineering Practices: Asking and Defining Problems, Planning and Carrying out Investigations, Constructing Explanations/Designing Solutions, Using Mathematics and Computational Thinking
Crosscutting Concepts: Cause and Effect, Structure and Function

Seasons of the River

In a high-energy game, students model the seasonal hydrology of the Spokane River watershed throughout the year by making water flow at different rates.

DCIs: PS2C, ESS2A,C
Science & Engineering Practices: Developing and Using Models, Analyzing and Interpreting Data
Crosscutting Concepts: Systems and System Models, Energy and Matter: Flows, Cycles, and Conservation, Structure and Function

Know Before You Go! Field Trip Details

- ◆ Field Trip Maximum is 60 students. If you have a larger group than this, please reach out directly so we can discuss other options. **Please Note** - Depending on the size of your group, we may not be able to do some lessons effectively. However, we will work with you to create a great program from our menu of lessons.
- ◆ *Looking for a topic that you didn't find above?* We may be able to customize to better meet your learning objectives. Get in touch to discuss!
- ◆ We recommend that you schedule your field trip at least two months in advance to get preferred dates.

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