



What is a Watershed?

NGSS Standards: 5-LS1-1, 5-LS2-1, 5-ESS2-1, 5-ESS2-2, 5-ESS3-1, MS-LS2-3, MS-LS2-4, MS-LS2-5, MS-ESS2-4, MS-ESS3-1, MS-ESS3-2

Level: 5-8 grades

Time: 45 minutes to 60 minutes

Objectives:

1. Students will understand the term watershed.
2. Students will test water quality. (Ph, temperature, dissolved oxygen, phosphorus, nitrates)
3. Students will learn how they are connected to the watershed they live in.

Materials:

- The Watershed Tour
- Where does Water Run Activity (Project Wild page 44)
- Watershed Activity (Project Wild page 197)
- Local watershed map, laminated
- 1-Hach water test kit

Pre-Activities:

Crumpled Paper Watershed http://fergusonfoundation.org/teacher_resources/crumpled_paper.pdf

The Watershed Tour---classroom based watershed study by LaMotte

The Worlds Water Source as an Apple Demonstration

Create OSU StreamWebs account: <https://streamwebs.org/>

Procedure:

1. We all live in a Watershed. Define a watershed (An area of land where all of the water drains to the same location, e.g. the river.)
2. Demonstrate how water moves through the environment using Crumpled Paper Watershed activity. (Should be review from pre-activity list)
3. Where does our drinking water come from? Show laminated watershed map.
4. Using the water sample bottle collect water from a nearby stream or river. Fill the sample bottle to the top.
5. Using the Hach water test kits follow the directions for testing your water. (Utilize proper protective gear.)
6. Record the data on Streamwebs for comparisons during different seasons of the year. Engage the classroom in local service project citizen science project.

Post-Activities & Resources:

1. City of Keizer has classroom activities focused on water education and pollution prevention. Enviroscope model will demonstrate the learning objectives from this lesson plan. 503-856-3444
2. Water Raps from Water ROCKS! curriculum

<https://www.waterrocks.org/video-watershed-rap>

<https://www.waterrocks.org/newvideo-the-power-of-water>

3. Importance of Oregon Watersheds OFRI-article on fish habitat and forest habitat

https://oregonforests.org/sites/default/files/2017-05/Wildlife_Mngd_Fish.pdf