

Lesson Title:

# Meet your Watershed

Overview:

Grade Level: 6-9

Time Required: 45-80 minutes

## NGSS Alingment:

MS-LS2-3, MS-LS2-4, MS-ESS2-4, MS-ESS3-3, MS-ESS3-4, HS-LS2-7, HS-ESS3-4, HS-ETS1-3

## Learning Goals:

- Students will understand the concept of a watershed by playing the Watershed Heroes Action Game (WHAG)
- Students will be able to identify sources of contamination in a watershed
- Students will be able to describe actions that can be taken to remove pollution from a watershed

## Materials:

- Equipment to show video: [Watershed Adventures with Echo the Orca](#)
- WHAG [Class Kit Contents](#)
- Video: [How to Play WHAG](#)
- Classroom set of [Meet Your Watershed Handouts](#)
- Writing implements
- Access to a sink for clean-up

## Procedure:

### 1) Warm-up challenge (5-10 minutes)

- As students enter class, invite them to complete the “What do you already know?” column of their Meet Your Watershed handout.
- When students seem finished writing, invite them to share any information they have.

### 2) Meet Your Watershed Video (10-15 minutes)

- Show “Meet Your Watershed”
- invite students to add new information to their handout in the “New Information” column.

### 3) Show “How to Play The Watershed Heroes Action Game” Video (3-5 minutes)

### 4) Have students play The Watershed Heroes Action Game (15-20 minutes)

### 5) Game clean-up (5-10 minutes)

- Have students clean-up and dry off the game

### 6) Reflection and closing class discussion (5-20 minutes)

- Invite students to complete the “After the Game” section of the Meet Your Watershed handout
- Invite students to discuss:
  - What new information they have learned
  - What new things they are curious about
  - What actions they might want to take to help keep the watershed clean

## Additional Resources:

- [The Nature of Teaching: Discovering the Watershed. Purdue University.](#)
- [Drain Rangers: Investigations Polluted Stormwater Runoff in Elementary Grades.](#)
- [Engineering Solutions: Investigating Polluted Stormwater Runoff in Secondary Grades](#)
- [Washington's Water Quality Management Plan to Control Nonpoint Sources of Pollution](#)
- [Center for Watershed Protection Trees and Stormwater Runoff](#)
- [Disentangling effects of forest harvest on long-term hydrologic and sediment dynamics, western Cascades, Oregon](#)