

# Air and Water Temperature – Outdoor Lesson

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**Grade** First

**Lesson** Fall Outdoor

**Time** 50 -55 minutes

**Materials** *From the Portable:*

Backpacks for sites #1, 2/3, 4, 5 and 6 with:

- Flip book for this lesson
- Pen for writing on flipbook
- Fahrenheit thermometer
- Stop watch
- Walkie Talkies (tune to channel #6)
- Sit upons (optional)

Beads for Watershed Necklaces (give to teacher at end)

Rain Boots

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## **Objective:**

To teach students how to take and read air and water temperature to determine if temperatures are suitable for the salmon in our watershed streams.

## **Before the lesson:**

1. A couple days before the outing, send reminder email to the volunteers and let them know to arrive at the Watershed Portable at least 15 minutes before the scheduled departure.
2. Obtain the parent/student list from the Teacher. This is the list of what students will be going with each volunteer parent.

## **Day of the Lesson Prep:**

1. Arrive at the Watershed Portable about an hour before the outing to review the lesson and gather the materials.
2. When you check in at the office, ask Kathy Conrad to turn on her walkie-talkie and let her know of your outing time.
3. Visit the classroom to see who needs boots and either bring the students to the portable to get them or find out their sizes and bring them to the classroom.
4. When the volunteers arrive, introduce yourself and give them the list of students they will be responsible for (if that has been provided by teacher in advance).

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5. Review the lesson with the parents by showing them the flipbook.
6. Remind volunteers that students need to stay with their assigned groups at all times. Volunteers need to stay with students until they are back in the classroom with their teacher.

## **The Lesson:**

1. Gather everyone together and introduce yourself to the students and ask them:
  - a) *Who remembers what we are going to do on our outing today?*
  - b) *How do we hold the thermometer?* By the string.
  - c) *What water temperature do salmon like?* 45-65 degrees Fahrenheit.
  - d) Remember to stay with your assigned parent leader for the whole tour.
2. Start walking as a group to the watershed sites. Group cross at the crosswalk stopping the entire group and reminding them to “stop, look and listen.” Have a parent or two go out and guard crosswalk. Remind student and parents that students are on the inside of the white line and parents are on the white line.
3. First direct groups to Site #5 and 6, then proceed along the road to drop off groups for Sites #1, 2/3, and 4.
  - a) Tell the parent volunteers to walk to their site and retrieve materials from backpack to get lesson started.
  - b) They can have children sit on the sit upons while they are waiting.
  - c) Each student should get a turn measuring air and water temperature.
  - d) Take turns having the students use the stop watch to track 3 minutes.
4. Help the last group you dropped off to get started and be sure they are on track. Now proceed to the other sites to check-in on the groups and be sure they are guiding the students through the completion of the data sheet.
5. Approximately 5 -7 minutes before students are due back, notify parents by walkie talkie that it is time to finish up and start walking back to the school. They should follow the same route for the return. Be sure to verify that all groups have left their site and are returning to school before you leave the watershed.

## **Finishing up:**

1. Have students return boots and follow teacher’s directions on returning to classroom.

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2. If time permits, have parents put the new watershed bead on student's necklaces; otherwise, give beads to teacher to have put on necklaces as their schedule allows.
3. Remove materials from backpacks and return them back to their place in the watershed portable. Wipe down any wet and muddy backpacks or other materials before putting them away.
4. Thank parent volunteers! You can also send them an email later.
5. When you check out at the office, let Kathy Conrad know that the outing is complete and she can turn off her walkie-talkie.
6. Remember to fill out the Lesson Feedback form on the website.