

Shadow Lake Bog, Renton, Washington
Plants and Animals of the Bog

Learning Objectives: Students will gain a basic understanding of some of the animals and plants native to Shadow Lake bog. Students will also gain basic skills in soil field testing and understand basic differences in soil composition related to the bog.

Essential Learning Outcomes:

Communication: 1.1.1, 1.1.2, 1.2.1, 2.1.1

The Arts: 3.2

Additional Outcomes listed for each station.

Environmental Education Guidelines for Washington State: Please see the full appendix at the end of the field trip packet.

Materials:

Clipboard	Tree Ring Worksheet
Pencil	Field Guide for Shadow Lake Bog
Soil Sample Lab Sheet	Soil Sample Color Chart
Crayons	Bog Animals identification ring
Bog Plants identification ring	Hand magnifying lens
Tin Can Core Sampler	Poster Paper
Scope-On-A-Rope	

Lesson:

Welcome to Shadow Lake Bog! You will be learning about the plants and animals of the bog today and we will be working in small groups so that everyone will get a chance to do everything! (*refer to poster schedule chart*) As you can see, each group will be doing different things at different times. Each of you will learn how to take soil samples and identify what kind of soil it is. You will also make your own field guide where you can identify some of the plants and animals that you will see. You will also learn about how trees grow and how to count tree rings. You will also help us here at the bog to identify what kinds of plants we have in certain places by learning to do a transect study. When we are finished, everyone will meet back here and have a short time to create a poster showing what you have learned. Are you ready? Here we go!

Students will rotate in their groups determined by the schedule posted. Each group will have an adult volunteer to monitor student behavior. All personnel will meet back at the interpretive center driveway for the poster

production and presentations. Poster presentations can also be made back in the classroom if time expires on the site.

POSTER PRODUCTION AND PRESENTATIONS:

Welcome back! I hope everyone has had a great time! We are now going to stay in small groups and use the tables here to produce your poster. Each poster should have the following information:

- Names of everyone in the group
- Today's date
- All soil lab sheets
- All field guides
- One comment from each member on something new they learned

You can staple your lab sheets together or keep them apart. Please place your field guides so that they can be opened. You can draw and decorate your poster however you want. When we are finished, each group will have about 3 minutes to present your poster and let us know what you learned.

If you finish early, you are welcome to come to the microscope table to look at some samples and experiment with the "Scope-On-a-Rope". An adult will be there to assist you.

When students are presenting, the rest of us are going to show respectful attention at all times. Please don't talk while presentations are going on and give each presentation positive applause when they are done.

Presentations will proceed as time allows. Reflection cards and questions from the audience are optional at this time.

Those were terrific! Thank you so much for coming today! Make sure to check our website at www.shadowhabitat.org to see what's new at the bog and look for information about your visit. You may even see your own name! Please make sure to check for any garbage in your area, and now you need to listen to your teacher for instructions.

Assessment:

- Soil Sampling: Lab Sheets and color chart
- Tree Rings: Worksheet with rubbing
- Field Guide: Complete field guide pamphlet
- Transect Activity: Completed transect grid

See "Post-Trip Activities" in the complete field trip packet

Plants and Animals of the Bog Station Schedule

Station	Soil ID Chart	Soil Sampling	Field Guide	Tree Rings	Transect Study
Group A					
Group B					
Group C					
Group D					
Group E					

Students can be assigned groups at school before coming to the bog. This will save time and allow for nametags or badges for group identification. Shadow Lake Bog personnel can individualize the schedule board with group or individual names if given the information in advance.

This schedule is an example of a group of 30 students split into 5 groups of 6 students. Any accompanying adults can be distributed equally among the groups. At 20 minutes, a whistle will sound and everyone will rotate to the next station. A sample field trip would proceed as follows:

10:00am-10:15 **Welcome, review schedule chart, break into groups.**
10:20-10:40 **Station 1**
10:45-11:05 **Station 2**
11:10-11:30 **Station 3**
11:35-11:55 **Station 4**
12:00-12:20 **Station 5**
12:25-12:40 **break/snack**
12:45-1:00 **Mural presentations, departure**