



PEPÁKEN HÁUTW Native Plants & Garden Education Program

LÁU, WELÑEW Tribal School, Brentwood Bay BC

Lesson Title/Topic: Autumn Gardens	Grade Level: 9/10	Subject: compost, soils, native plant propagation, plant identification, transplanting, ecosystem restoration
	Time Needed: 60mins	Date: Oct 7 th , 2014

BC Min of Ed Learning Outcomes addressed in this lesson:

Science 9 (2006) 9 compare sexual and asexual reproduction in terms of advantages and disadvantages

Science 9 (2006) 9/10 demonstrate ethical, responsible, cooperative behaviour

Science 10 (2008) 10 explain the interaction of abiotic and biotic factors within an ecosystem

Science 10 (2008) 10 assess the potential impacts of bioaccumulation

Science 10 (2008) 10 explain various ways in which natural populations are altered or kept in equilibrium

Science 10 (2008) 10 evaluate possible causes of climate change and its impact on natural systems

Objectives -Through these learning activities, the student will demonstrate the ability to:

- Explore ecological restoration and native plant characteristics
- Understand some basic restoration principles and why restoration is important
- Investigate soils, discuss their importance, and learn how we can build soil
- Discuss biodiversity and seed genetics while saving seed

INSTRUCTIONAL ACTIVITIES:

Time	Activity
5mins	Knowledge Circle (meet at PEPÁKEN HÁUTW) What are some of the things we learned in the last lesson (if applicable)? An introduction to what we will do today including building soil and seed saving Ground rules and things to remember, respectfully working with tools
25mins	Garden Activities (Checking for understanding, modeling, guided practice, independent practice) 1. Looking at different types of soil, talking about components of soil- sand, silt, clay, making seed balls.

2. Discuss the importance of soil; what is happening to our topsoil and why and how we can amend it through composting- demonstrate browns and greens and what compost needs.
3. Look at garden, and see plants growing from last workshop, talk about beans and seed saving.
4. Go and dig in hole for digester (3 people)
5. Collect and label bean seeds (3people)
6. Plant Kale in garden if time permits (3 people)

Native Plant Activities

25mins

1. Introduction to JSÁY (Douglas fir/*Pseudotsuga menziesii*) native plant garden
2. Restoration basics: observe sunlight, soil/drainage patterns (dig a small soil pit)
3. Discuss "reference" ecosystems. What ecosystem are we trying to restore and why?
4. Choose 2-3 plants based on our discussion and plant them, using tools

5mins

Knowledge Circle/Closing:

To the students, what is one thing you learned today? What is one thing you wonder about? Thanks!

Materials Needed:

- Gloves, shovels, trowels
- Envelopes for seed saving and markers for labeling
- Kale starts
- Small amounts, sand, silt, clay, organic matter
- Approx 6-8 native plants for restoration area

Optional follow up activities/ questions:

1. Investigating questions about soil. Why is soil essential for human survival? How quickly is global topsoil being lost? What is desertification? How does compost work? What are some of the important soil organisms that break down waste into soil?

In the classroom, take a spoonful of garden soil and look at it under a microscope, draw what you see.

2. Investigate questions about seeds and seed diversity. Why is seed diversity important? What are the ways the W̱SÁNEĆ peoples traditionally saved seed?

3. Investigate relationships between plants and their different needs and requirements. Observe the native ecosystems around you. Where do certain plants usually live? What other plants do they usually live with?

4. Observe disturbed ecosystems around you. How would you restore them? Why?

Please fill out our feedback forms and leave them in the envelope at the front office!

HÍ,SW̱KE SIÁM!