

PROVIDER PALS™

LESSON PLAN

Date: December 2002

Subject: Logging – Lesson #3

Grade: 7th & 8th

Time Frame: 50+ minutes

Topic: It Takes A Tree

Content: Social Studies/Science

Key Vocabulary: reforestation, stream protection, old growth, riparian area protection, wildlife protection, national parks, high tech logging equipment, photosynthesis, Forest Practices Acts, wilderness, thinning, commercial forest operations, Pacific Logging Congress

Materials & Aids:

1. Video – It Takes A Tree
 2. world map/ U.S. map
 3. notebook/composition book for each student- These can be used monthly (Provider Pals™ Journals).
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Goals: Aims/Outcomes

1. The students will be able to gain an understanding that he/she uses one tree (100 ft. X 18 in. diameter) in wood and paper products each year.
2. Students will be able to observe the logging process and practices.
3. Students will be able to journal their thoughts after viewing the video.

Objectives:

1. Students will learn some of the laws and environmental issues involved in harvesting a tree (logging.)
 2. Students will gain an understanding of why certain logging practices are done. i.e. thinning
 3. Students will be encouraged to jot down any cultural questions they may have for their actual Provider as they watch the video.
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Procedures/Methods:

Introduction: On average, every man and child uses the equivalent of one tree in wood and paper products each year. That tree measures roughly 100 feet in height and 18 inches in diameter. This video discusses what's being done to protect the environment while your tree is being harvested. It explains what special and unique forests are closed to logging and forever preserved in national parks, wilderness areas and other protected areas. In areas where harvesting is allowed, the video

addresses reforestation, stream and riparian area protection, wildlife protection, soil erosion and roads, high technology logging equipment and state laws called Forest Practices Acts that regulate commercial forest operations. The Pacific Logging Congress was founded in 1909. It is an association of logging and forest products companies as well as logging equipment manufacturers and dealers. Its membership comes from Alaska, British Columbia, California, Oregon, Washington, and other western states along with New Zealand.

Development: Time: 10 minutes

1. Explore the meanings of the vocabulary words listed above. Some words are on the Logging Vocabulary list. Others should be discussed briefly.
2. On U.S. and world map have students locate the states and New Zealand which are part of the Pacific Logging Congress

Practice: Time: 30 minutes

1. Before watching the video, ask students to imagine what size one tree would have to be to provide them (just themselves) with all the paper and wood product they would need for one year. Have students write down their estimates in length and diameter. Once everyone has written down an estimate, ask for volunteers to share their responses. Discuss how they came up with their estimate. When discussion is complete, share the answer. "On average, every man and child uses the equivalent of one tree in wood and paper products each year. That tree measures roughly 100 feet in height and 18 inches in diameter. If time allows ask for volunteers to help demonstrate 100 feet by having students lay head to foot to head. This visual should be beneficial to most students. The 100' length could also be marked on the floor with tape. Discuss definition of diameter.
2. Ask students to also be aware of questions they may encounter as they view the video. These could be the some of the cultural questions for their actual Provider. Having a notebook out while watching the video may be handy.
3. Watch video.

Check for Understanding: Time: 5 minutes

1. Debrief lesson by discussing the video.
2. Discuss any surprises students may have encountered.

Independent Practice: Time: 10 minutes

1. Allow students time to journal. Encourage students to write anything new or interesting they encountered in the video.
2. Also in their journals, have students write at least one cultural question for their Provider that they thought of while viewing the video.

Evaluation: (suggestions)

1. Participation
 2. Journal entries- These will be helpful to the students when they are asked to write their essay for the selection of students for the Montana summer trip.
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Teacher Reflection: (for completion after lesson)

Additional Activity:

1. Have students work in groups to make a model of a tree that represents the average height and diameter of the amount of paper and wood every person uses on average in one year. (100 ft. X 18 inches in diameter) Using papier mache would work well but students could come up with other alternatives.

Video from **Pacific Logging Congress** – 2300 S.W. 6th Ave. Suite 200
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