

PEOPLE & TREES

Teacher Lesson Plan

LEVELS

Grades 4-5

SUBJECTS

Science
Social Studies
Language Arts
Visual Arts

CONCEPTS

People use ingenuity and innovation to make the best use of available resources.

To sustain the availability and use of important resources, people practice conservation.

Human consumption patterns affect the availability of resources.

To meet the needs of an expanding human population, societies practice resource management and employ technology.

SKILLS

Analyzing
Data Gathering
Discussing
Interpreting
Representing
Researching

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In addition to providing beauty and recreation, forests supply raw materials to help meet society's needs for housing, paper, containers and thousands of other products used by consumers every day. As one of the country's leading forest products providers, Georgia-Pacific LLC has a long-term interest in and commitment to the health of our nation's forests.

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OVERVIEW

Since the beginning of time, people have used trees to build shelter, as a source of food, to provide heat and for recreation. Over time, increasing populations have created an increased demand for forest products. Although trees are a renewable resource, to meet this increased demand people have developed new technologies and new products that increase efficiencies and maximize the productive use of each tree harvested.

DISCUSSION, TOPICS AND ACTIVITY SUGGESTIONS

The use of trees can be studied in the context of many different areas of learning. Here are some suggestions:

SCIENCE

- **Papermaking.** What kinds of fiber other than wood can be used to make paper? (*class experiment, research project*)
- **Energy from wood.** Is wood a good conductor of heat? Do different types of wood give off different amounts of heat? Why? Which types of wood are the best to burn for heat? (*research project, class presentation*)
- **Forest growth.** How are different types of trees regenerated? How does climate affect tree growth? (*research project, class presentation*)
- **Resources.** What is the difference between a renewable and a non-renewable resource? What are some examples of each? What renewable and non-renewable resources do we use every day? (*research project, class activity, class presentation*)

SOCIAL STUDIES

- **Uses of wood.** How has the use of wood changed through history? How do people use wood in other parts of the world – for fuel, for shelter, to create art? (*essay topic, art project, research project*)
- **Wood and paper products.** What products have you used today that are made from wood, wood fiber or wood chemicals? What forest products are present in the classroom, at home? (*essay topic, class presentation, class activity*)

MATH

- **Math Activity Suggestions.**
 1. If one tree can produce 21 sheets of plywood, how many sheets can be produced by 20 trees?
 2. Six trees can produce 84 pieces of lumber. How many pieces of lumber can be produced by 18 trees? (Hint: How many sets of 6 are in 18?)

LANGUAGE ARTS

- **Vocabulary Activity Suggestions.**

Vocabulary Words: shelter, recreation, renewable, spice, recycle, resource, harvest, seafaring, adhesive

1. Choose a word from the list above. Make a list of words using only the letters from the chosen word. How many words can you make?
2. Look at home at the different spices found in your kitchen. How many come from trees? What are the names of the spices and in what foods are they found?

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Activity Sheet

A WAY WITH WORDS

How many words can you make out of **Educational in Nature**?

For example: LATE or CLEAN

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

WORD SCRAMBLE

Unscramble each group of letters to find different ways trees are used.

1. dofo _____
2. lrtehes _____
3. ppera _____
4. urnebl _____
5. notceerira _____
6. ttonronrsptaia _____
7. lfeu _____
8. nlgchoti _____
9. otosl _____
10. odlpyow _____

Answers to Word Scramble: 1. food 2. shelter 3. paper 4. lumber
5. recreation 6. transportation 7. fuel 8. clothing 9. tools 10. plywood

