

FROM THE FOREST

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.

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.

OVERVIEW

Paint... toothpaste... ice cream. Many products that come from trees are surprising. Trees supply thousands of products for our daily lives.

DISCUSSION, STUDY TOPICS AND ACTIVITY SUGGESTIONS

Products that come from trees can be studied in the context of many different areas of learning. Here are some suggestions:

SCIENCE

- **Papermaking.** Test the strength of different kinds of paper – bath or facial tissue, a paper towel, a paper sack, a piece of writing paper – when they are wet and dry. Which type of paper breaks or tears first when it gets wet? Why? What types of paper need to be strong? What types need to be soft? (*class experiment, research project*)
- **Chemical reactions.** What chemical reactions do you make every day? (*class experiment, research project*)
- **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*)
- **Technology.** What is technology? How does it affect our lives every day? (*research project, essay topic, class presentation*)

SOCIAL STUDIES

- **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? (*class activity, essay topic, class presentation*)
- **Alternative products.** What would life be like without products made from wood, wood fiber or wood chemicals? What products could you substitute for them? What could you invent that would take the place of some forest products? (*research project, essay topic, class presentation, art project*)

MATH

- **Math Activity Suggestions.**
 1. If an acre of land can support 70 trees, how many acres would be needed to support 210 trees?
 2. If one tree is needed to produce 20 boxes, how many trees are needed to produce 300 boxes?
 3. If the average person consumes goods that use 2 trees per year, how many trees have you used in your life time? How many trees will you have used by the time you are 20 years old?

LANGUAGE ARTS

- **Vocabulary Activity Suggestions.**

Vocabulary Words: rayon, cellulose, lignin, pulp, turpentine, rosin, papyrus, hemp

Choose 3 vocabulary words from the list above. Look up the meaning for each word. Write 2-3 paragraphs telling how we use products from trees in our everyday life. Draw an illustration at the bottom of your paper.

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Activity Sheet

FOREST MAZE

Can you get through the forest maze and out the other side? (You can't go through the trees.)

