



Earth's Resources

Lesson 3

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Where Do the Materials
You Use Come From?2

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Lesson

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VOCABULARY



synthetic



petroleum
product

Where Do Materials Come From?



Synthetic yarn is better for people who are allergic to natural fibers like wool.



▶ The fossil fuel petroleum is used to make many materials. Anything that is made with petroleum is called a **petroleum product**. Oil is one petroleum product.



READING FOCUS SKILL

MAIN IDEA AND DETAILS

The **main idea** is what the text is mostly about. **Details** are pieces of information about the main idea.

Look for examples of materials that are used to build structures and details about these materials.



Resources in Our Community

Think about the community you live in. What resources are used? The building you live in probably uses wood. Wood is used for construction and paper products.

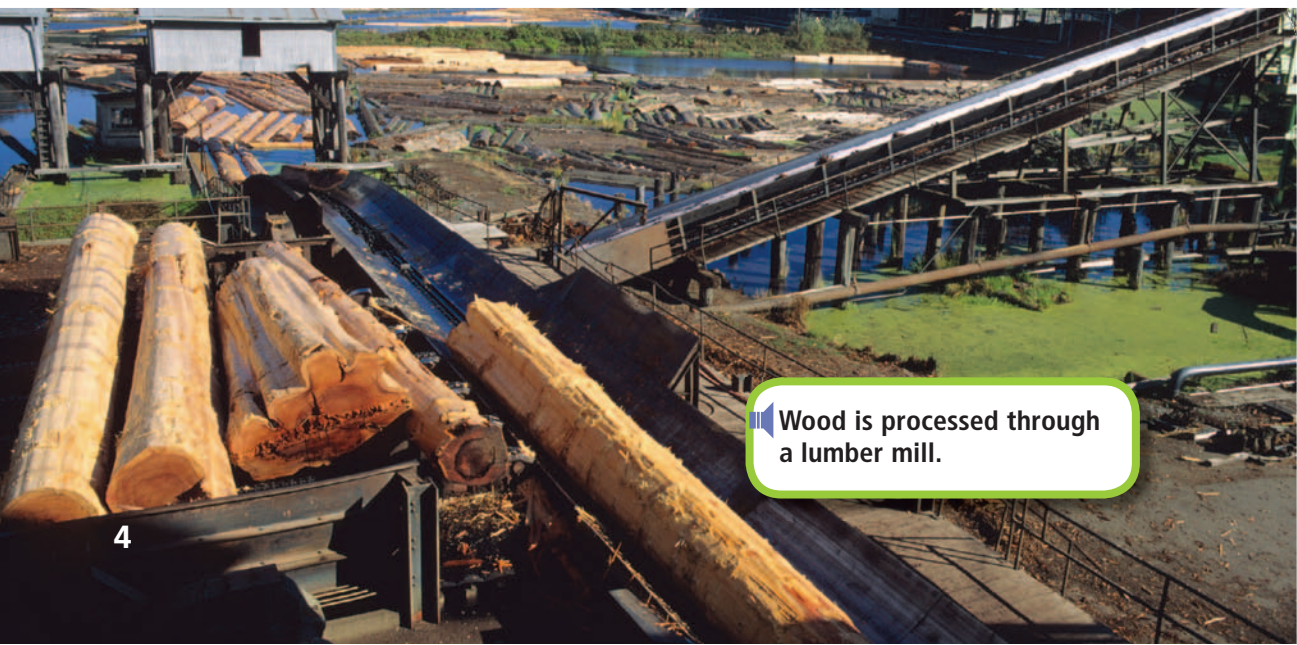
We use other resources to build roads and foundations of structures. Bricks and concrete are made from materials from Earth. Asphalt is made from petroleum. Even metal is taken from Earth's crust through mining.



Metals and other natural materials must be processed in some way. A tree goes through several steps before it can be used to build a house.



Name a natural resource that is used in your community?



Wood is processed through a lumber mill.

Materials in Common

Most things that we use everyday are made from more than one material. Jeans are made from many materials, starting with denim fabric.

Most jeans are dyed blue. The dye is a synthetic. Something that is **synthetic** is made from chemicals instead of natural materials. Jeans also have zippers and buttons. These materials are usually some type of metal. Brass, aluminum, and nickel can be used to make zippers.

Items that you use every day are made up of many materials. A pencil contains an eraser, brass holder, wood, paint and lead. These come from very different sources, as you see in the picture.



What materials are used to make one pair of jeans?



Petroleum Products

Petroleum is processed into oil and gasoline. Those fuels are burned to heat homes, generate electricity, and run cars. Petroleum can also be used to make materials. Asphalt, plastic, and paint are made with petroleum. **Petroleum products** are goods that are made with petroleum.

A family of four is sitting on a brown sofa in a cluttered room. The room is filled with various items, including a large blue inflatable pool, a yellow exercise ball, a soccer ball, a basketball, and many pairs of shoes. A speech bubble from the family says, "This family is displaying items that are petroleum products." The background shows a kitchen area with a sink and a window.

 This family is displaying items that are petroleum products.

Many synthetic fibers, like nylon and polyester are petroleum products. Many plastics, and paraffin wax used to make crayons are petroleum products.

Cars need gasoline which comes from petroleum but there are other petroleum products used in cars. Engine oil and antifreeze are made with petroleum.



Name three objects that are made with petroleum.



Many items we use every day, such as boots, are made from petroleum.



Review



Fill in the blanks for this **main idea** statement.

1. Many of Earth's natural _____ are used to make every day materials and products.

Fill in the blank to complete each **detail** statement.

2. A _____ goes through several steps before it can be used as lumber to build a home.
3. Something that is _____ is made from chemicals rather than from natural materials.
4. Goods that are made with petroleum are called _____ .

GLOSSARY

-  **petroleum product** [puh•TROH•lee•uhm PRAHD•uhkt] Anything made from the fossil fuel petroleum.
-  **synthetic** [sin•THET•ik] Something made from human-made chemicals.

Think About the Reading

-  **1.** What can you do to help you remember what you have learned?
-  **2.** What questions do you have after reading this book?
How can you find the answers to your questions?

Hands-On Activity

Materials that are used to make many common items have a natural origin. In the following activities try to trace the natural origin of an item.

-  **1.** Make a list of three items in a car. What are these items made out of?
-  **2.** Make a list of three item in your house. What are these items made out of?

School-Home Connection

Find an everyday item that is made out of just one kind of material with a family member. For example, classroom chalk is made from the mineral gypsum. Once you locate your item, write a paragraph together explaining what it is and what is the natural origin of the material.