

Q LANGUAGE DETECTIVE

Talk About the Writer's Words

Work with a partner. Take turns asking and answering questions about the photos. Use the blue Vocabulary words in your questions and answers.

Vocabulary in Context

pollen

This bee carries pollen from flower to flower, which helps seeds grow.



store

A baobab tree can store, or keep, lots of water in its trunk.



clumps

The flowers on some trees grow in <mark>clumps</mark>, or bunches.



passages A leaf has small

passages, or tubes, that allow water to spread all over.



- Study each Context Card.
- Make up a new context sentence using two Vocabulary words.

5 absorb

A plant's roots absorb water. They soak it up.



6 throughout

Sap passes
throughout a tree.
It travels to every
part.



coverings

Different kinds of trees have different coverings, or outer layers.



8 spines

Many kinds of cacti are covered in sharp spines.



9 tropical

Some plants grow in warm, damp, tropical climates near the equator.



10 dissolve

If you add salt to water, it will dissolve, or mix, with the water.





Read and Comprehend

TARGET SKILL

Text and Graphic Features As you read *A Tree Is Growing*, look for features that will help you understand the information. **Text features** such as labels, captions, and sidebars will give you more details about the main text. **Graphic features**, including pictures and diagrams, will show you what the text describes. Use a chart like the one below to list the features you find and their purposes.

Text or Graphic Feature	Page	Purpose

TARGET STRATEGY

Question As you read, ask yourself **questions** to make sure that you understand the information. Look for evidence in the words, sidebars, pictures, labels, and diagrams.

PREVIEW THE TOPIC

Trees

Trees are a great natural resource. Apart from their beauty, trees provide shade and food. Trees protect people from windstorms and floods. People use the wood from trees to build houses and to keep their homes warm, as well as to make useful things such as furniture, paper, and pencils. As a resource, trees are especially valuable because they are renewable. This means that new trees can be planted to replace the trees that people use.

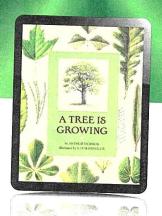
In A Tree Is Growing, you will read about the science of how trees grow. You may find some fascinating facts!

Think Write Pair Share

Think about the kinds of trees that grow in your community. Do they change with the seasons? Are they very old? How do people use them? Write a paragraph that answers these questions. Share your paragraph with a partner. Discuss what you learned from each other about the importance of trees.

Lesson 18

ANCHOR TEXT





GENRE

Informational text gives information about a topic. As you read, look for:

- ▶ photographs and captions
- ▶ graphics, such as diagrams, that help explain the topic
- ▶ text structure, or the ways the ideas and information are organized

MEET THE AUTHOR

Arthur Dorros

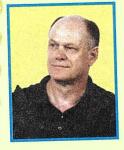


Arthur Dorros loves trees. When he was five, he planted a maple seedling. The tree grew taller than a two-story house! The author believes that everyone has stories

to tell. He encourages children all over the country to write.

MEET THE ILLUSTRATOR

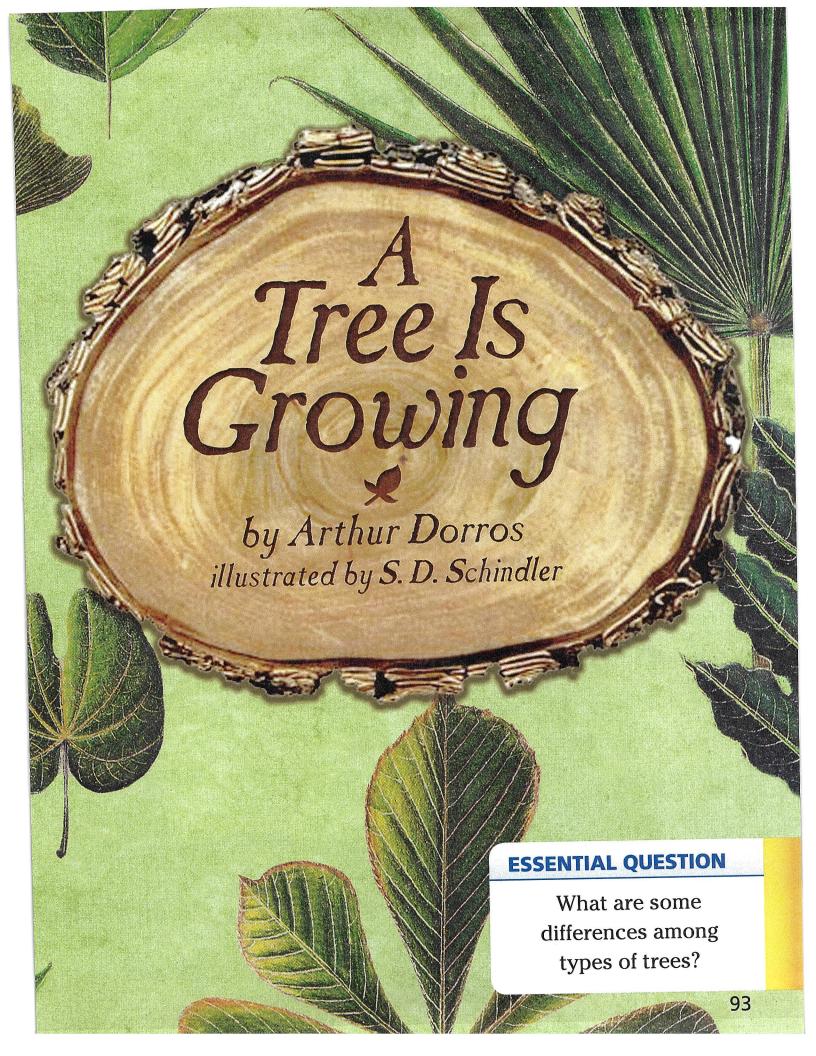
S. D. Schindler

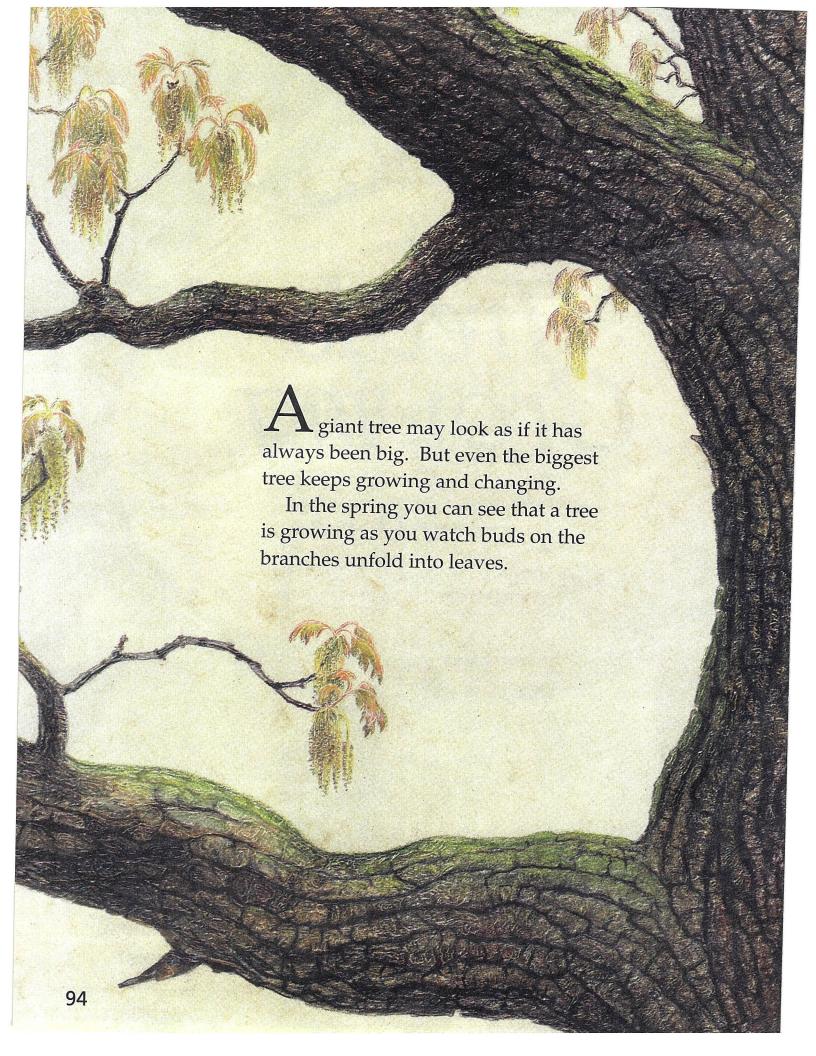


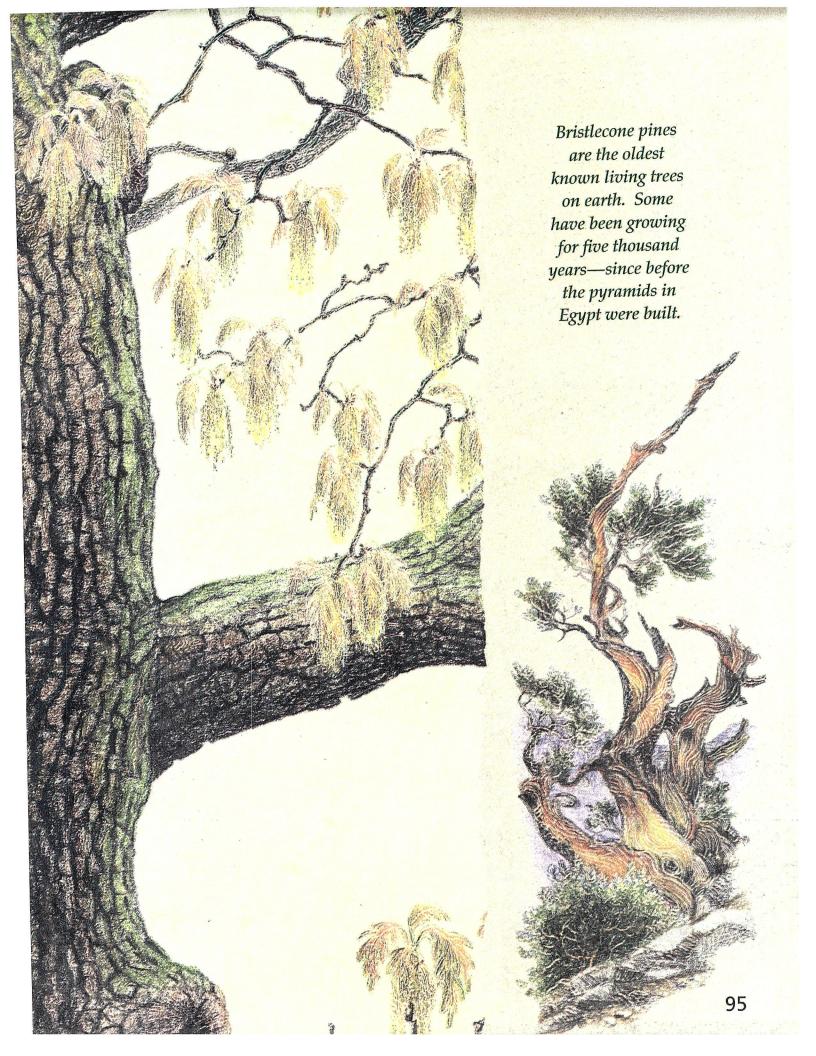
When S. D. Schindler was just four years old, he won a red wagon in a coloring contest. S. D. Schindler loves nature as much as he loves art. He used plants and animals from

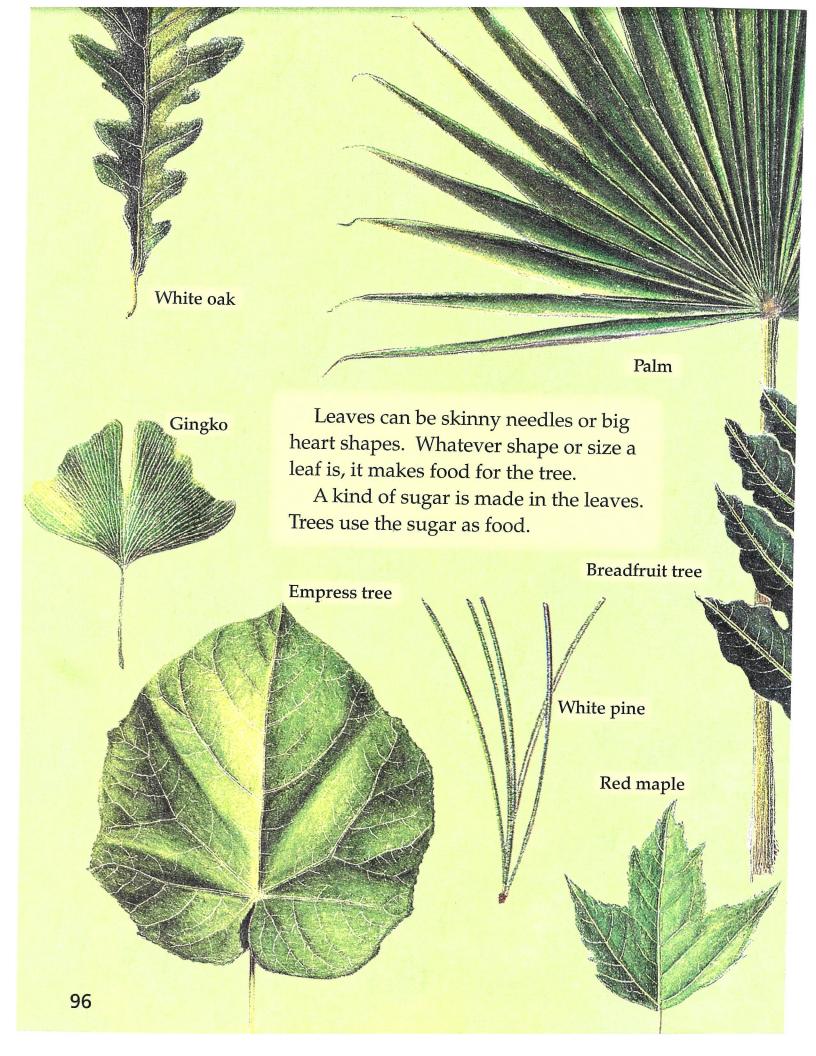
the woods near his home as models for the illustrations in A Tree Is Growing.

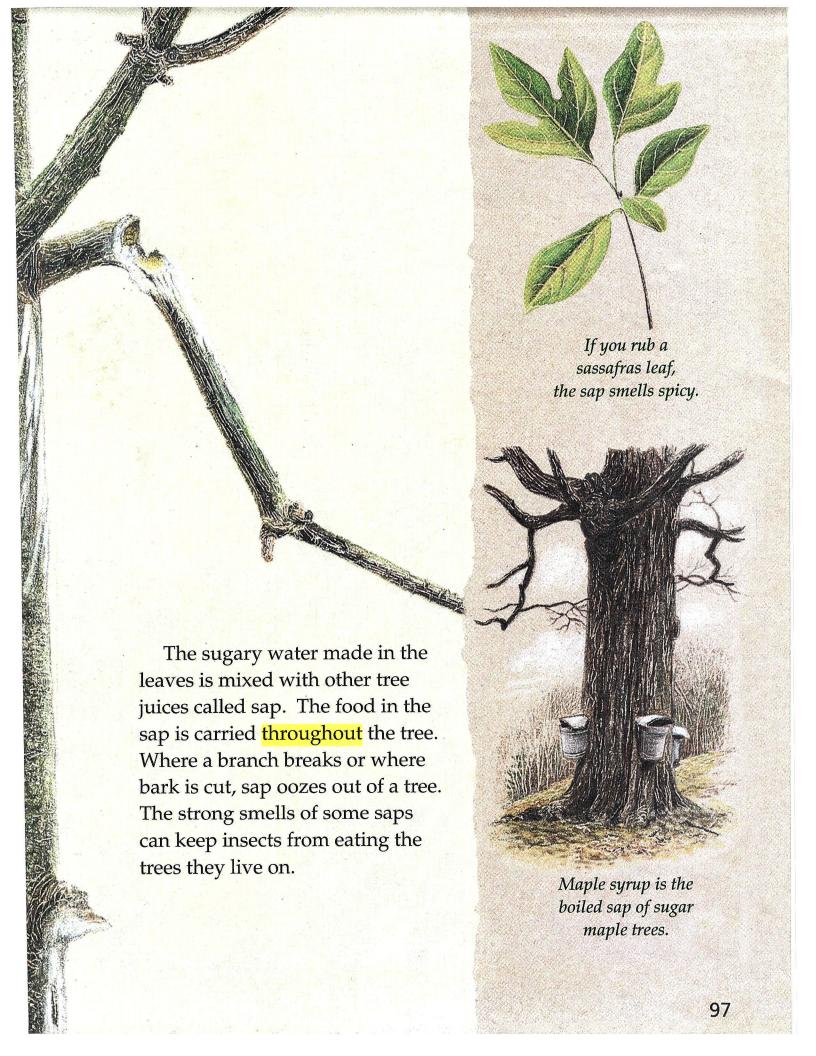


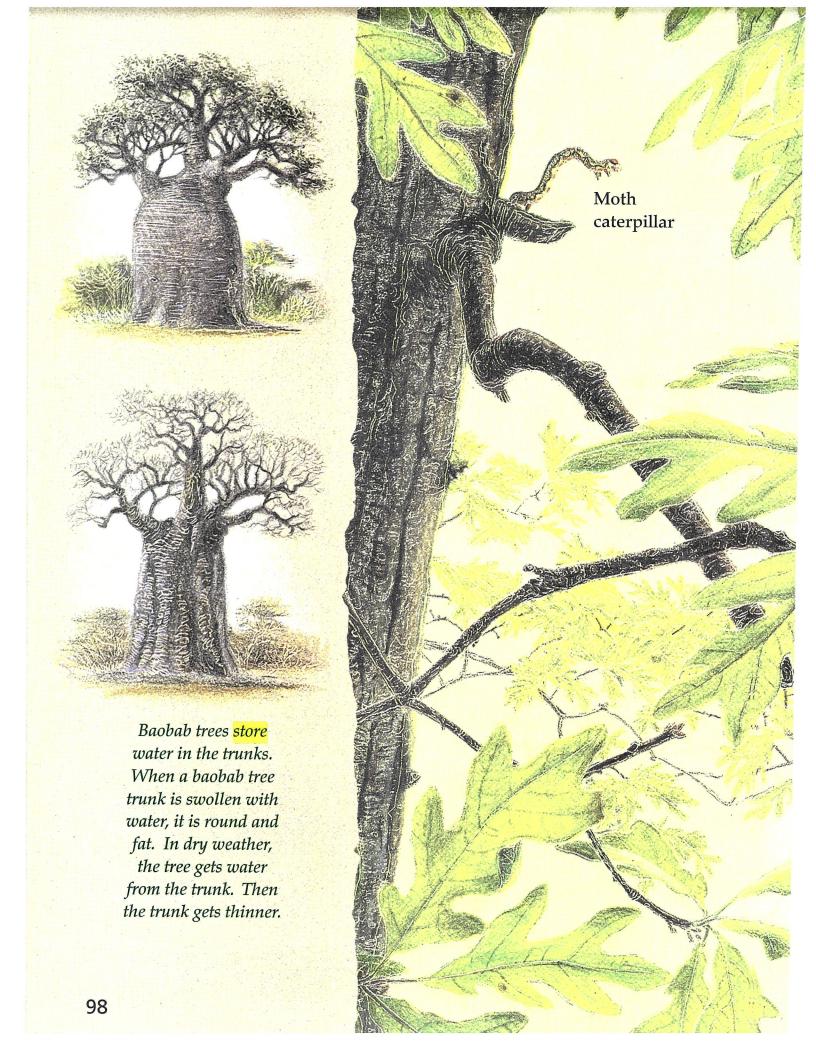


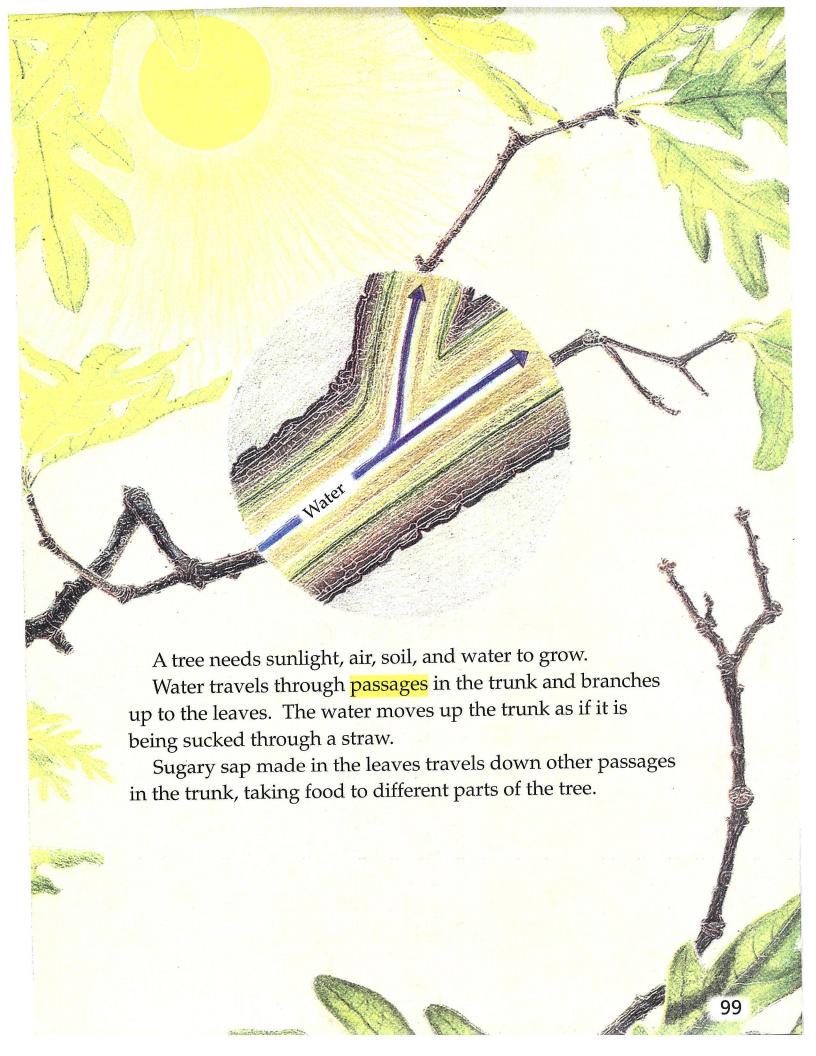










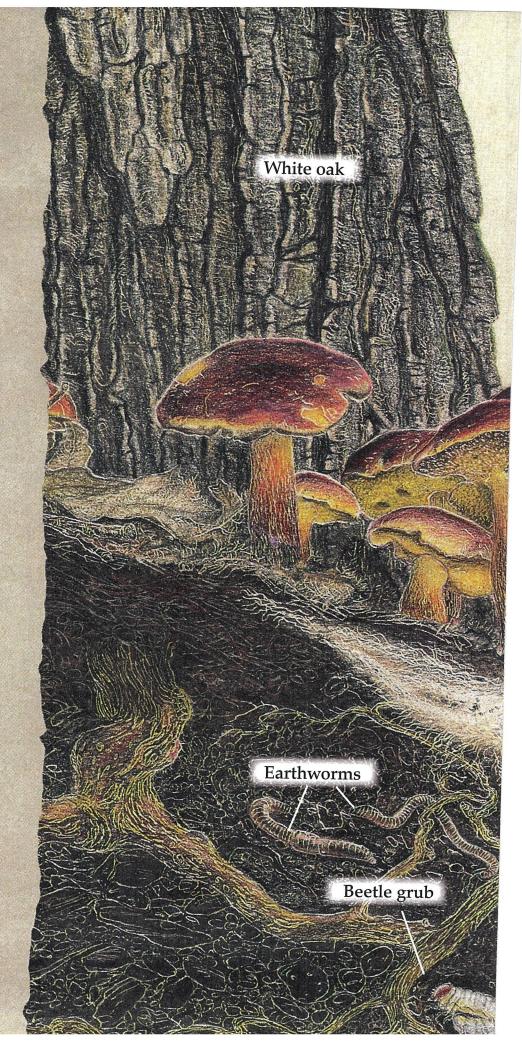




A few kinds of trees drop roots from branches into the soil to gather water. Banyan tree roots grow into columns all around the tree.



Growing roots are strong. A root can lift a sidewalk or split a rock as it grows. By splitting the rock, it helps make soil.

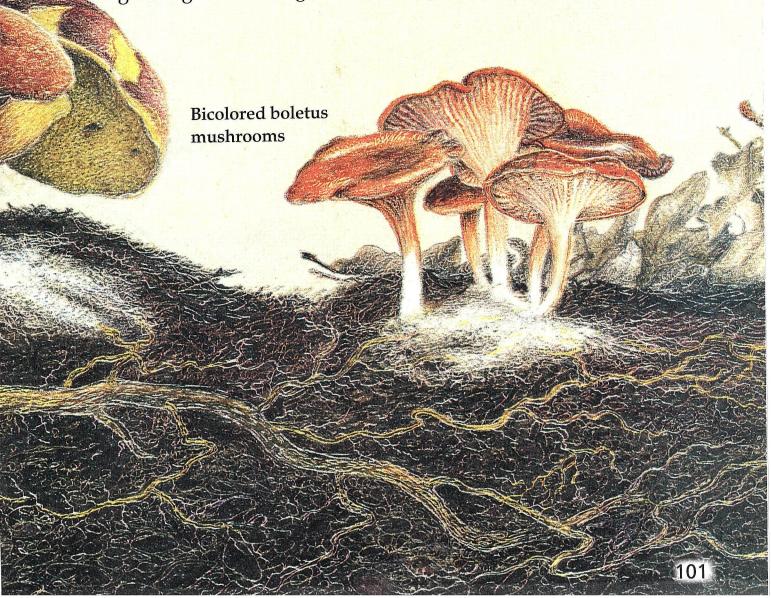


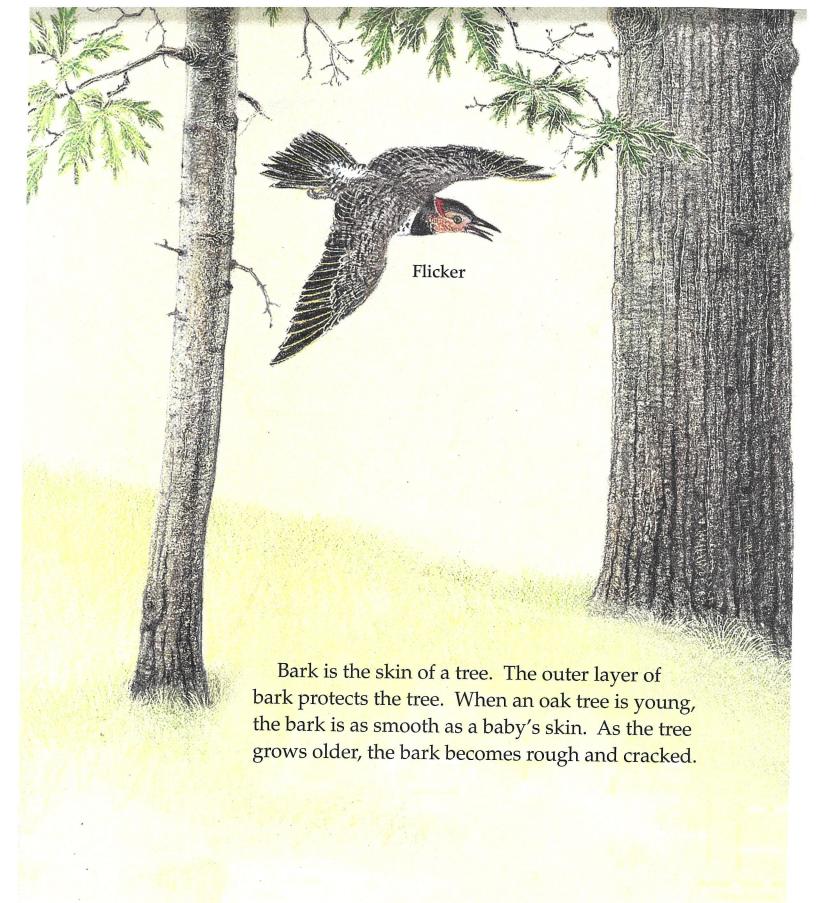
The roots of a tree grow into the ground and hold the tree in place. Roots are like pipelines. They absorb water and carry it into the tree.

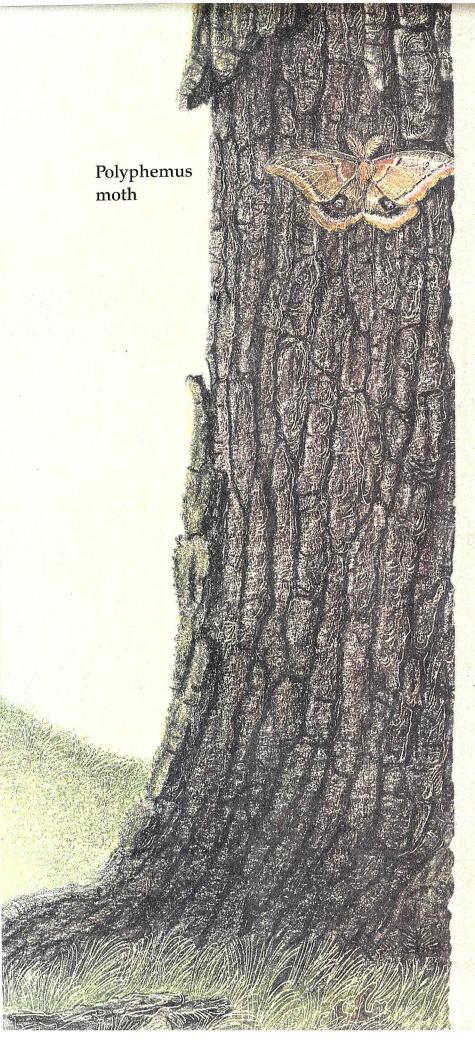
A tree's roots spread out far underground. They usually grow out a little farther than the tree's branches.

Trees need minerals to grow. Minerals are tiny particles that are found in the soil. Salt is one kind of mineral. Like salt, other minerals dissolve in water. They are mixed in with the water that roots absorb and are carried throughout the tree.

Mushrooms growing among the roots of a tree can help it get minerals. And the mushrooms and plants growing near a tree get water brought by the tree's roots.



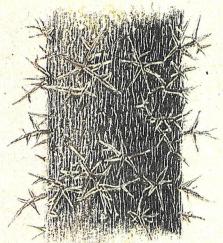




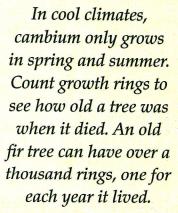
Looking at the bark of a tree can help you know what kind of tree it is.

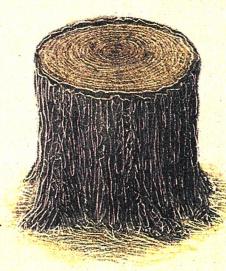


The cork used for bulletin boards is the peeled-off outer bark of a cork oak tree.



Honey locust bark has spines to help protect the tree.





In tropical rain forest trees, the cambium grows all year and there are no rings. It is hard to tell the ages of those trees.



Growth rings

Snail

Phloem

_ Cambium

_ Xylem

ANALYZE THE TEXT

Text and Graphic Features How do the captions, labels, and diagrams help you understand the selection?

