



# Plants, Plants, Everywhere!



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Printed in the United States of America

ISBN 0-15-343900-9

1 2 3 4 5 6 7 8 9 10 039 10 09 08 07 06 05

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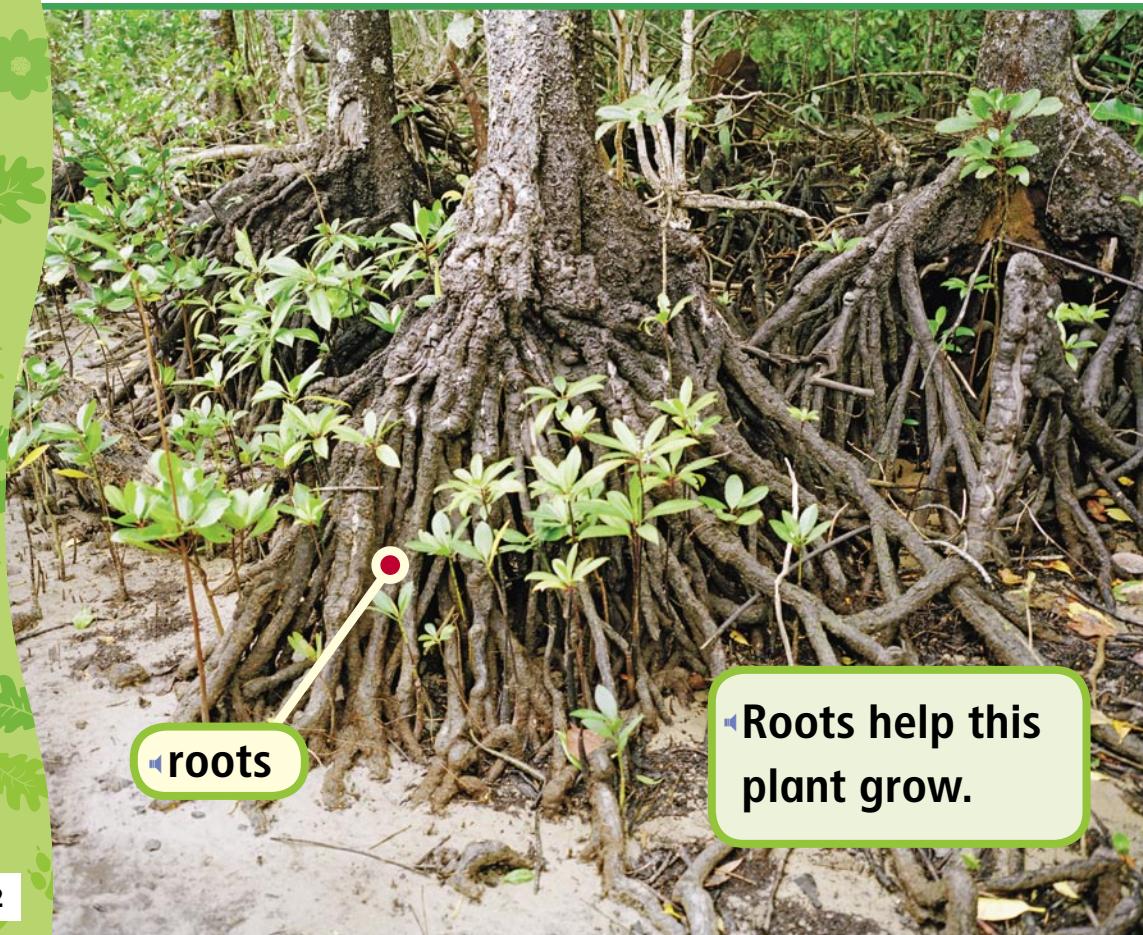
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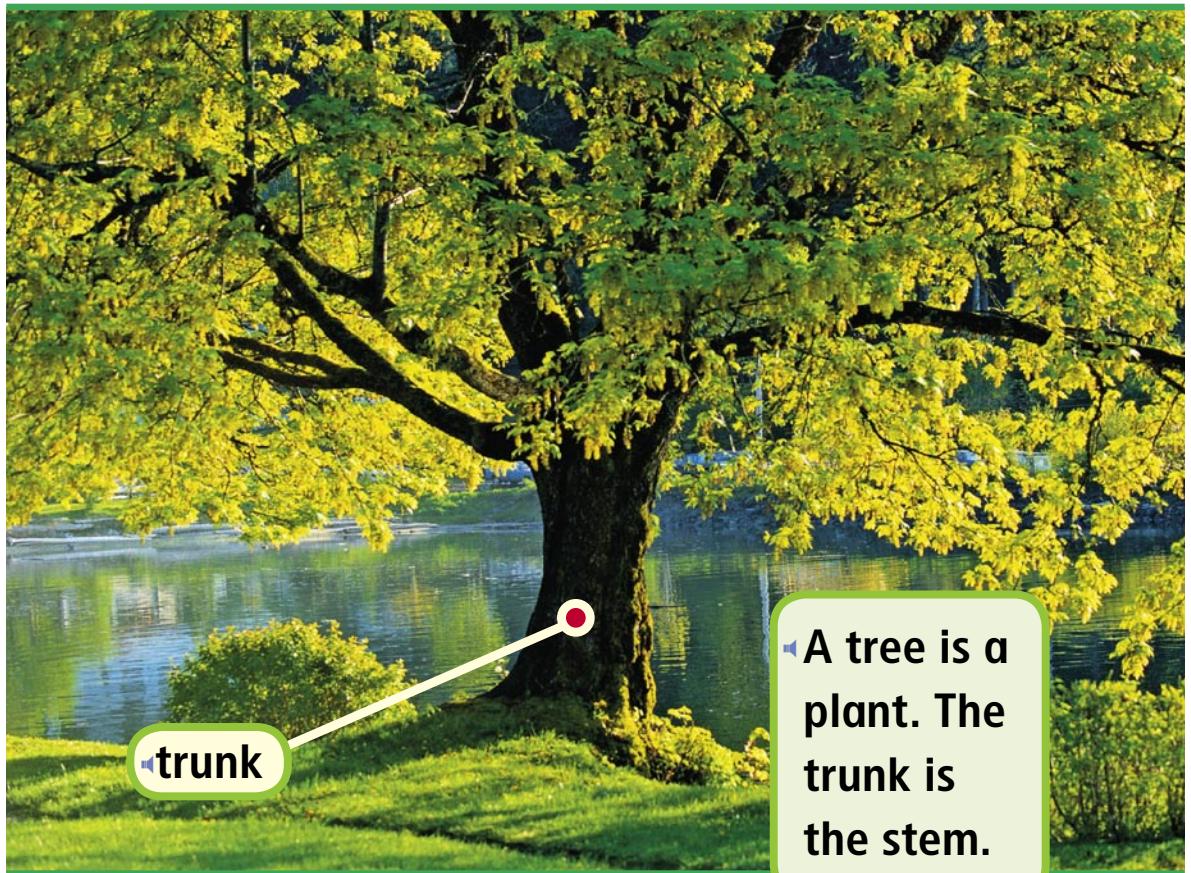
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# Roots, Stems, and Leaves

Each plant has many different parts. Each part has a job. Each part helps the plant grow and live.

- Most plants have roots. Roots hold plants in the soil. Roots take in water. Roots take in minerals from the soil as food.





► **trunk**

► A tree is a plant. The trunk is the stem.

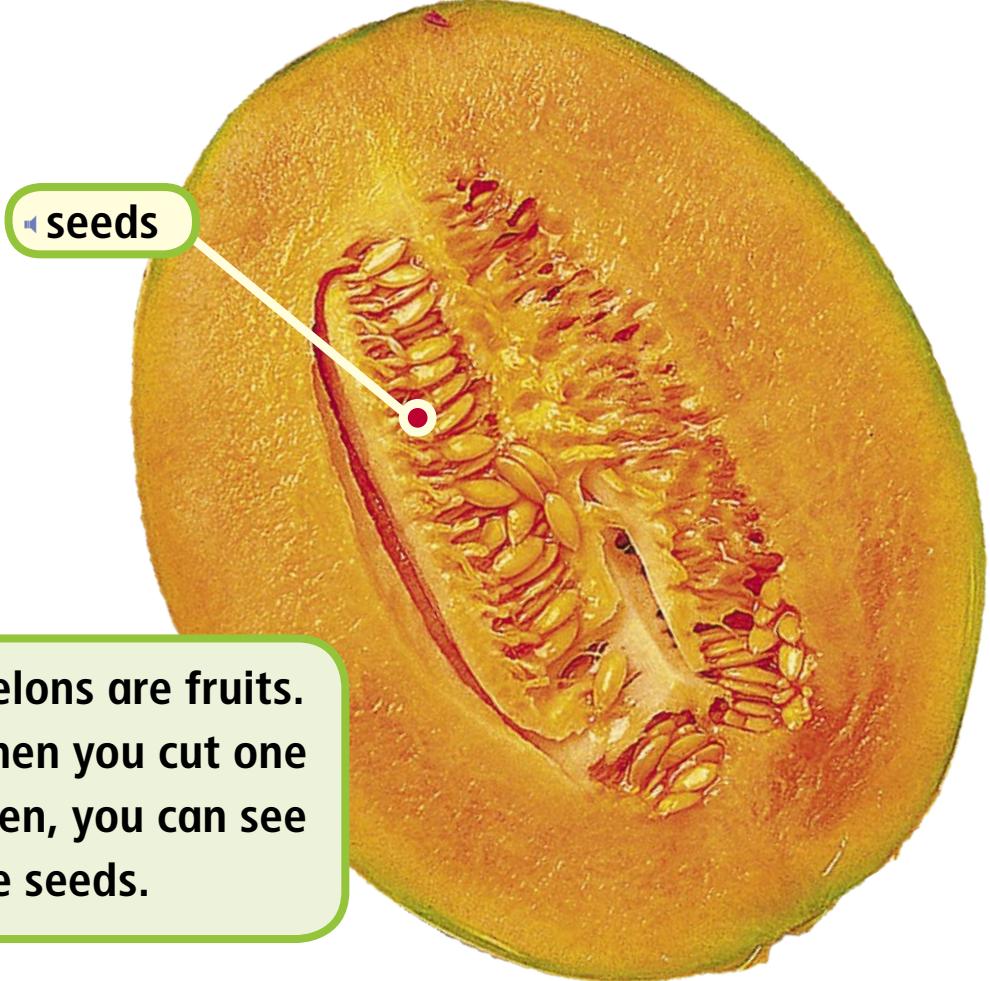
- Plants have stems. **Stems** hold plants up. Stems move food and water through plants.
- Plants have leaves. **Leaves** take in light and air. Plants need light, water, and air to make their food.
-  **MAIN IDEA AND DETAILS** Name three parts of a plant.

## Making New Plants

Many plants have flowers. The job of a **flower** is to make fruit. **Fruits** hold seeds. New plants grow from the **seeds** in these fruits.



These flowers  
have a job to do.  
They make fruits.



- Melons are fruits. When you cut one open, you can see the seeds.

- What do new plants look like? Can you guess? They look like the plants that made the seeds.



**MAIN IDEA AND DETAILS** Where do seeds come from?

**Fast Fact**

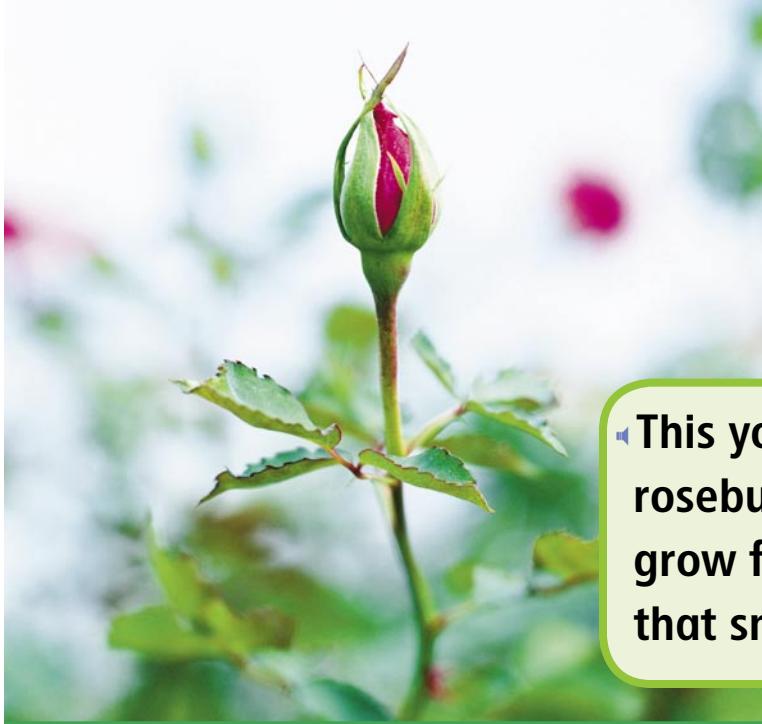
- Do you eat tomato with your sandwich or salad? Tomatoes are fruits!

## Plants Grow and Change

Most plants grow from seeds. Some seeds have **seed coats** that protect them. Inside each seed is a tiny plant. Seeds need water and sunlight for the plant to grow.

With sunlight and water, these seeds will grow into plants.





► This young rosebush will grow flowers that smell good.

- First, the roots grow down. Then the stem grows up.
- The next things to grow are the leaves and flowers. Then what happens? The flowers make fruits. Fruits hold seeds that can make new plants.
- When a seed grows, a life cycle for a new plant begins.



**SEQUENCE** What happens after a seed grows roots?

# Plants and Time

Different plants take different amounts of time to grow.

- A tomato plant lives for a year. First it grows. Then it makes flowers. Then it makes fruits and seeds.
- Some types of daisy and rose plants live for three years or more.

▪ Different plants grow in different ways.



- Most trees take longer to grow than plants. Many trees live longer than plants. Some trees live for hundreds of years.

**Fast Fact**

- The oldest living pine tree is about 4,700 years old.

- Animals and people take different amounts of time to grow, too. Each plant and animal grows in a different amount of time.



**COMPARE AND CONTRAST** How is a tomato plant different from a tree?



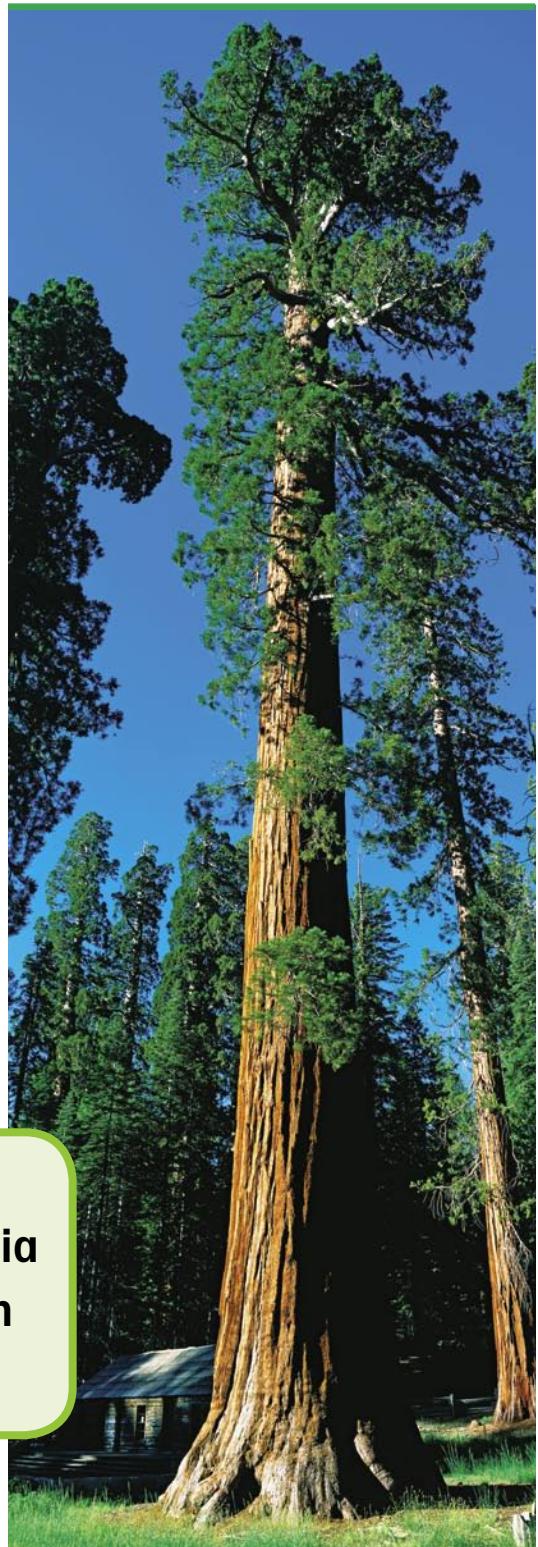
- This young bean plant grows quickly.

## Same and Different

Every seed has a chance to grow into a new plant. The new plant will look very much like the plant that made the seed.

- Animals look very much like the parents they come from. A young dog looks like a dog, not a bird. A young bird looks like a bird, not a dog.

This sequoia tree comes from a sequoia seed. It is taller than many other trees.

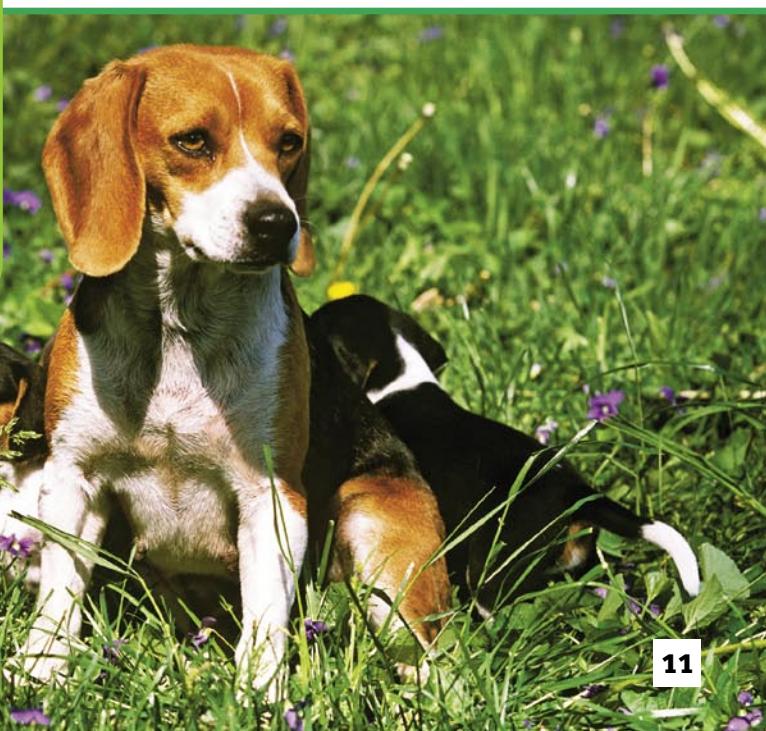


- Plants and animals look a lot like their parents. They are still a little different from their parents.
-  **CAUSE AND EFFECT** What will a plant look like if it grows from the seed of a rosebush?

## Summary

Most plants have roots, stems, leaves, and flowers. New plants can come from seeds. Each plant takes a different amount of time to grow.

Animals don't look exactly like their parents. The same is true for plants.



# Glossary

- **flowers** The part of a plant that makes fruits (4, 7, 8, 11)
- **fruits** The part of a plant that holds the seeds (4, 5, 7, 8)
- **leaves** The parts of a plant that take in light and air to make food (2, 3, 7, 11)
- **roots** The part of a plant that holds it in the soil and takes in water and nutrients (2, 7, 11)
- **seed coat** A covering that protects a seed (6)
- **seeds** The parts of a plant that new plants grow from (4, 5, 6, 7, 8, 10, 11)
- **stem** The part of the plant that holds up the plant and lets food and water move through the plant (2, 3, 7, 11)

## ► **Think and Write**

- **1.** Tell how plants grow.
- **2. MAIN IDEA AND DETAILS** What do roots do?
- **3. SEQUENCE** What happens after a plant grows a stem?
-  **4.** Write a paragraph about the life cycle of a plant.

## ► **Hands-On Activity**

With a partner, draw an imaginary plant. Be sure it has all the parts a real plant has. Label the parts.

## ► **School-Home Connection**

Find some fruit at home. Have a family member cut it open. Tell what you know about seeds.