

# Plants

Content Area: **Science**  
Course(s): **Science 3**  
Time Period: **Undefined**  
Length:  
Status: **Published**

## Unit Overview

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### Essential Questions

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How do plants grow and change?

How can you classify plants?

How do plants use leaves to make food?

How do plants use roots and stems to grow?

How do plants use flowers or cones to reproduce?

### Content

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We can classify plants by: flowering/nonflowering, seeds/spores, and where they are located.

Plants use photosynthesis to make food from leaves.

Roots store food and take in water and nutrients from the soil. Stems can grow roots and a new plant.

Flowers or cones distribute seeds to be pollinated, resulting in reproduction.

### Skills

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Classify plants into major groups, such as flowering and nonflowering plants, based on physical characteristics.

Describe how leaves help plants live, grow, and produce food.

Describe how roots and stems take in, transport, or store water and nutrients the plant needs to grow.

Explain how plants reproduce using seeds and cones.

Describe sequence of plant life cycle.

Compare and contrast types of plants.

Explain the cause and effect of resources plants need to survive.

## **Assessments**

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Classify some of the plants they see.

Explain how some of the plants around them make food, grow, and reproduce.

Centers: Compare and Contrast-Non-flowering vs. Flowering Plants; Sequence-Discovery Education Photosynthesis video sequence; Compare and Contrast- (Observation)Viewing Plants with a hand lens and under a microscope; Math-create bar graph/pictograph to categorize plants.

Study Guide

Chapter Review

Chapter Test

Benchmark Practice

Performance-Based Assessment, Program Guide pg 54: Germinating Seeds, Animals and Seasons, and/or Life Cycle Poster

STEM Activity Book

## **Lessons/Learning Scenarios**

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ELA Day 1:

Mini lesson: Compare and Contrast

SW observe the differences between an apple and orange.

Literature Circles:

Science

Lesson 1: How can you classify plants?

Hook: Play Discovery Education Video, Classifying Plants (5 minutes)

## Standards

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SCI.3-4.5.1.4.B.3	Formulate explanations from evidence.
SCI.3-4.5.1.4.C.1	Monitor and reflect on one's own knowledge regarding how ideas change over time.
SCI.3-4.5.3.4.A.b	Essential functions required for the well-being of an organism are carried out by specialized structures in plants and animals.
SCI.3-4.5.3.4.D.a	Plants and animals have life cycles (they begin life, develop into adults, reproduce, and eventually die). The characteristics of each stage of life vary by species.

## Resources

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Pearson Interactive Science Chapter 3 Plants

Discovery Education

Brainpop Jr.

Handlens

Microscopes