

# Plant Science

Academic Representative



Technology Education Concepts

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## Description

Plants are vital to so many areas of human lives: from our sense and enjoyment of beauty to our very survival on this earth. In this meticulously researched curriculum, students become amateur plant scientists as they explore the Kingdom Plantae through engaging computer presentations, plant experiments, and other lab activities. Plant Science also gives students an excellent introduction to significant scientific knowledge that students will encounter again in biology and chemistry.

## Skills

- Set up and complete lab experiments
- Identify and describe plant structures, tissue systems, and organs
- Classify plants using Linnaeus' system
- Dissect and identify seeds

## Knowledge

- Plant adaptations
- Genetics and heredity in plants
- Ecological systems and food chains
- Plant nutrition and fertilization
- Plant life processes: respiration, transpiration, photosynthesis, absorption, translocation
- Human uses of plants

## Activities

- Activity 1 - Introduction
- Activity 2 - Plant Anatomy
- Activity 3 - Plant Characteristics and Germination
- Activity 4 - Plant Nutrition
- Activity 5 - Plant Processes
- Activity 6 - Plant Propagation
- Activity 7 - Survival of a Species
- Activity 8 - Plant Classification and Identification
- Activity 9 - Plant Uses
- Activity 10 - Post-Test and Wrap-Up
- Activity 11 - Bonus Activities
- Activity 12 - Challenge
- Activity 13 - Open-Ended Challenge
- Activity 14 - Careers
- Activity 15 - Internet

## Standards

Math/Measure Problem Solving Science Reading

## Module Includes:

Student Workbook, Instructor's Manual, Installation CD, Lab Coat (2), Calculator, Graduated Cylinders, Beaker (6), Grow Box (18), Wash Bottle (18), Scissors, Hand Lens, Tweezers, Scalpel (2), Cutting Boards, Measuring Spoons, Plastic Funnel (2), Ruler, Timer, Test Tube (36) and Rack, Kevlar Gloves (2), Headphones (2), Plant Science Supply Kit for 24 Students

Computer and supplies are required and sold separately.

Requirements: water supply.

## Requirements

Module requires a computer workstation.

## Curriculum Specifications

The student workbook contains concise hands-on procedures, illustrations, screen captures, and photographs which reinforce the multimedia content. Special attention is placed on interesting and relevant graphics to encourage visual learning. DEPCO Studio is an effective curriculum delivery system that uses the power of the computer to deliver educational content. By using interesting digital videos, full-color animations, professional quality narrations, challenging interactions, relevant photographs, and Computer Aided Instruction (CAI), DEPCO has modernized the way subject matter is taught. Modules are 15 units consisting of: - 10

basic activity days with Pre-Test, Post-Test, and Activity Review Questions - 5 enrichment activities include: vocabulary reinforcement, problem-solving, open-ended challenges, careers, and Internet activities An instructor's section includes: lesson plan outlines, installation instructions, and answer keys.

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