

## Defining characteristics

- Multicellular
- Eukaryotic
- Cellulose Cell Wall
- Photosynthetic organs

## Challenges & Ways to Cope

Water loss & Drought → (1) A protective, waxy cuticle (2) Stomata that can open and close (3) Vascular tissue  
 Protecting embryos & effective dispersal → Spores (haploid, resilient reproductive structures) and seeds (allow the baby plant to survive harsh conditions apart from the parent plant)  
 Low Temperatures → Producing a waxy, sticky sap that prevents the fluids in vascular tissue from freezing  
 High amounts of water/solutes within water → having salt glands or using the waxy cuticle to keep fluids inside and solutes out

## Cell Types

- Parenchyma (storage, photosynthesis, gas exchange, protection)
- Sclerenchyma (general protection → the sclerids in pears and fibers used for textiles)
- Collenchyma (provide structural support)

## Tissue Types

- Meristematic
  - Apical meristems (roots and tips)
  - Intercalary (growth locations for stems)
  - Lateral (2 types: vascular cambium → tree rings and cork cambium → bark)
- Dermal
  - Makes up the protective epidermis
  - Houses stomata & secretes the cuticle
  - Produces trichomes (on stems) and root hairs
- Vascular
  - Xylem → Water conducting tissue made of tracheids and vessel elements
  - Phloem → Food conducting tissue (plant food is sugar dissolved in water) made of companion cells and sieve tube members
- Ground
  - Makes up the bulk of the plant
  - For photosynthesis, storage, and support

# Plants

(created on day 3)

## Organs

- Roots
  - Made of a root-cap at the tip and cortex, the inner boundary of which contains the casparian strip which only allows water through
  - Types: Tap, fibrous, and adventitious (i.e. prop roots and pneumatophores of mangroves)
- Stems
  - Can be woody (covered with bark) or herbaceous (which can still photosynthesize, i.e. asparagus)
  - Function: support the plant's leaves and reproductive structure
  - Types: Tubers (i.e. white potatoes), Bulb (i.e. onion), Runners/stolons (i.e. strawberries), Corms (shortened stem with small scaly leaves, i.e. amaryllis)
- Leaves
  - Primary function is photosynthesis
  - Made of two tissue layers
    - Palisade mesophyll (tightly packed cells, where most photosynthesis happens)
    - Spongy mesophyll (support tissue that houses vascular tissue and shepherds materials needed for photosynthesis in and washes out)

## Types / Divisions of Plants

- Non-vascular plants (usually small, in damp areas) → the bryophytes, anthocerophytes, and hepaticophytes AAA the true mosses
- Seedless vascular plants (larger than mosses) → the lycophytes (ground pines) and phenophytes (ferns and horsetails)
- Vascular seed plants
  - Cycadophytes (the cycads) → seeds are in cones
  - Coniferophytes (the conifers, i.e. pines, firs, cypresses) → seeds are in cones
  - Anthophytes (flowering plants)
    - Classified as monocots or dicots -OR-
    - By life-cycle: Annual (one growing season or less), Biennial (2-year lifespan), perennial (many years)

## Reproduction

- Occurs via alternation of generations
- A diploid sporophyte produces spores, the haploid gametophyte produces gametes
- Flowers (see lab for review & prep for written portion labeling)

# Plant Unit Study Guide

**AW Rasmussen**



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## **Table of Contents Plant Unit Study Guide**

1. Understanding the eBook Plant Unit Study Guide
  - The Rise of Digital Reading Plant Unit Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Plant Unit Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Plant Unit Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Plant Unit Study Guide
  - Personalized Recommendations
  - Plant Unit Study Guide User Reviews and Ratings
  - Plant Unit Study Guide and Bestseller Lists

5. Accessing Plant Unit Study Guide Free and Paid eBooks
  - Plant Unit Study Guide Public Domain eBooks
  - Plant Unit Study Guide eBook Subscription Services
  - Plant Unit Study Guide Budget-Friendly Options
6. Navigating Plant Unit Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Plant Unit Study Guide Compatibility with Devices
  - Plant Unit Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Plant Unit Study Guide
  - Highlighting and Note-Taking Plant Unit Study Guide
  - Interactive Elements Plant Unit Study Guide
8. Staying Engaged with Plant Unit Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Plant Unit Study Guide
9. Balancing eBooks and Physical Books Plant Unit Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Plant Unit Study Guide
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Plant Unit Study Guide
  - Setting Reading Goals Plant Unit Study Guide
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Plant Unit Study Guide
  - Fact-Checking eBook Content of Plant Unit Study Guide
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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