

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 capillary 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 dihaplontic sporophyte produces spores, the haploid gametophyte produces gametes
- Flowers (see lab for review & prep for written portion labeling)

Plant Unit Study Guide

JR Anderson



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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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