

- Multicellular
- Eukaryotic
- Cellutose Cell Wall
- · Photosynthetic organs

## Challenges & Ways to Cope

Water loss & Drought  $\Rightarrow$  (1) A protective, wary cuticle (2) Stomata that can open and close (3) Vascular tissue Protecting embryos & effective slopersal  $\Rightarrow$  Spores (haploid, resilient reproductive structures) and seeds (allow the baby plant to survive harsh conditions apart from the parent plant

Low Temperatures: In Producing a wary, sticky say that prevents the fluids in vaccular tissue from freezing. High amounts of water/solutes within water In having salt glands or using the wary 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 \*

- Membernatic
  - Apical mensions troots and but
  - Intercutary (growth locations for shares)
  - Lateral (2 types: vascular cambium-9 tree rings and cork cambium-9 bank)
- Description
  - Makes up the protective epidermis
  - Houses stomata & secretes the cuticle
  - Produces trichones (on stems) and root hairs
- Vascular
  - Xylem -9 Water conducting traue made of tracheids and vessel elements
  - Philoem 9 Food conducting tissue (plant food is sugar dissolved in water) trade of companion cells and sieve tube members.
- a Centural
  - is. Makes up the bulk of the plant.
  - For photosynthesis, storage, and support

# Plants

(created on day 3)

Organs

#### ellipotti.

- Made of a root cap at the tip and cortex, the inner boundary deshich contains the casparian strip which only allows water through
- Types: Tap, forous, and adventitions (i.e. propinous) and precimatop over of mangraves

### e Storens

- Can be woody (covered with bank) or herbaceous (which can still photosynthes)
   i.e. asparagus)
- Function: support the plant's leaves and reproductive structure
- Types: Tubers (i.e. white potato); Builb (i.e. onion); Runners/stolons (i.e. strawberries). Corms (shortened stem with small scale leaves, i.e. amarylis).

#### with the later of the

- a Primary function is photosynthesis.
- er Made of two tissue layers
  - Palisade mesophyli (tightly packed cells, where most photosynthesis happens)
  - Spongy mesophyll (support frome that houses vascular frome and shepherds materials needed for photosynthesis in and wastes out)

## Types / Divisions of Plants

- Non-vascular plants (usually small, in damp areas) → the bryophytes, anthocorophytes, and hepaticophytes AKA the true musses
- Seedless vascular plants (larger than mooses) -> the lycophytes. (ground pines) and pterophytes. (ferns and horsetalls)
- Vascular seed plants
  - Cycadophytes (the cycads) ->
    seeds are in cones
  - Conferophytes (the conifers, i.e. pines, firs, cypress) → Seeds are in cooes
  - Anthophytes (flowering plants)
    - Classified as monocots or dicots -OR-
    - By life-cyle: Annual (one growing season or less).
       Biennial (2-year lifespan), perennial (many years)

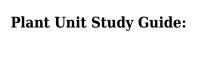
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## **Plant Unit Study Guide**

**Marco Cascella** 



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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
  - $\circ \ Exploring \ Different \ Genres$
  - 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
  - o 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
  - o Highlighting and Note-Taking Plant Unit Study Guide
  - o Interactive Elements Plant Unit Study Guide
- 8. Staying Engaged with Plant Unit Study Guide

- o 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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