

PLANT TISSUES & ORGANS

Big Picture

Plants have specialized cells not found in animal cells, such as cells that carry out photosynthetic functions. A group of the same type of cells doing the same job makes up a tissue. Vascular tissues, which transport fluids, are one type of tissues found in vascular plants. More than one type of tissue working together to do specific jobs form an organ. The parts of a plant that we can easily identify - roots, stems, and leaves - are examples of plant organs.

Key Terms

Parenchymal: Type of plant cell that carries out photosynthesis, cellular respiration, and/or storage functions.

Collenchymal: Type of plant cell that functions to support the plant.

Sclerenchymal: Type of plant cell that functions to strengthen and support the plant.

Xylem: Type of vascular tissue in a plant that transports water and dissolved nutrients from roots to stems and leaves.

Phloem: Type of vascular tissue in a plant that transports food from photosynthetic cells to other parts of the plant.

Meristem: Type of plant tissues consisting of undifferentiated cells that can continue to divide and differentiate and from which plants grow in length or width.

Primary Growth: Plant growth in length.

Secondary Growth: Plant growth in width.

Taproot: Single, thick primary root that characterizes the root system of some plants.

Fibrous Root: Threadlike root that makes up part of the fibrous root system of some plants.

Root System: All the roots of a plant, including primary roots and secondary roots.

Root Hair: Tiny hair-like structure that extends from a plant root.

Bark: Tissue that provides a rough, woody external covering on the stems of trees.

Stomata (singular: stoma): Tiny pore in the epidermis of a plant leaf that controls transpiration and gas exchange with the air.

Mesophyll: Specialized tissue inside plant leaves where photosynthesis takes place.

Cuticle: Waxy, waterproof substance produced by cells on the surface of leaves, shoots, and other above-ground parts of plants.

Deciduous Plant: Type of plant that seasonally loses its leaves.

Evergreen Plant: Type of plant that keeps its leaves and stays green year-round.

Plant Cells

Some structures found in plant cells but not in animal cells are:

- **Large central vacuole:** Contains water and dissolved substances. Helps give the cell shape and support the plant.
- **Cell wall:** Located outside the cell membrane. Shapes, supports, and protects the cell.
- **Plastids:** Organelles with their own DNA. Examples include chloroplasts, which contain the green pigment chlorophyll.

There are three different types of basic plant cells:

- **Parenchymal:** Contains chloroplasts. Carries out photosynthesis and cellular respiration. Stores organic molecules.
- **Collenchymal:** Elongated cells that provide support.
- **Sclerenchymal:** Cells with very thick walls that also provide support. More rigid than collenchymal cells.

All three of these cell types are found in most plant tissues.



Figure: Cross-section of a plant cell.

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Plant Cells And Tissues Study Guide Answers

AW Rasmussen



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Table of Contents Plant Cells And Tissues Study Guide Answers

1. Understanding the eBook Plant Cells And Tissues Study Guide Answers
 - The Rise of Digital Reading Plant Cells And Tissues Study Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Plant Cells And Tissues Study Guide Answers
 - 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 Cells And Tissues Study Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Plant Cells And Tissues Study Guide Answers
 - Personalized Recommendations
 - Plant Cells And Tissues Study Guide Answers User Reviews and Ratings
 - Plant Cells And Tissues Study Guide Answers and Bestseller Lists

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