

PLANT STRUCTURE AND GROWTH

There are about 250,000 species of flowering plants or angiosperms.

This is the dominant group in terrestrial habitats. Our survival depends on them.

- Food, medicine, lumber, etc.

The name angiosperm is derived from the Greek *angeion*, means vessel, and *sperma* means seed.

The form of plants is controlled both by the environment and by their genetic makeup.

Plants show **plasticity**, the ability to alter or mold itself in response to local environmental conditions.

Plants also have a **morphology**, external form or external anatomy, controlled by their genotype.

THE PLANT BODY

A plant's structure reflects its interaction with the environment.

Plants have become adapted through natural selection to specific problems posed by terrestrial environments.

Plants have tissues and organs.

Plants have two organ systems: **root system** and **shoot system**.

Plants have three basic organs: **roots, stems and leaves**.

ROOT SYSTEMS

Taproot system.

- Produced by gymnosperms and dicots.
- It consists of one large vertical root that grows downward and is called then a **taproot**.
- It produces lateral roots.
- This system generally penetrates deep into the soil.

Fibrous root system.

- It is found in monocots.
- **Adventitious** roots develop from the stem and/or leaves.
- Each root in turn develops its own lateral roots.
- This system is usually shallow.

The tip of the roots in both monocots and dicots is covered with **root hairs**.

Root hairs are extension of the epidermal cells and increase the absorbing area of the root.

Plant Structure Study Guide

**Barron's Educational Series, Gabrielle
I. Edwards, Cynthia Pfirrmann**



Plant Structure Study Guide:

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Table of Contents Plant Structure Study Guide

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

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