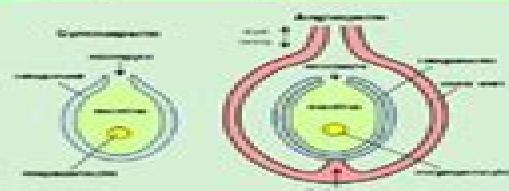


# Cheatography

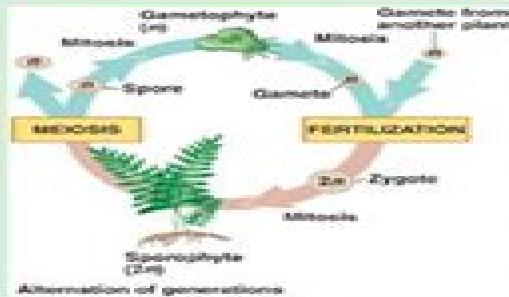
## AP Biology Unit 4: Plant Physiology Cheat Sheet

by hlewsey via cheatography.com/36676/cs/11606/

### Gymnosperms vs. Angiosperms



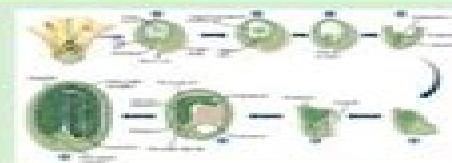
### Gametophyte/Sporophyte Cycle



### Angiosperm Reproduction



### Seed Development



### Monocot vs. Dicot



### Types of Fruits



### Plant Hormones

#### Auxins

distribution of auxins  $\rightarrow$  phototropism  
enhances apical dominance (verticillation)  
promotes fruit growth

#### Cytokinins

stimulates cytokinesis & cell division  
delays senescence (aging)

#### Gibberellins

cause stem elongation, fruit growth, & seed germination  
auxin  $\rightarrow$  gibberellins  $\rightarrow$  fruit development

#### Brassinosteroids

induce cell elongation & division in stem segments, slow leaf abscission

#### Abscisic Acid (ABA)

antagonizes growth hormones, inhibits germination, used to withstand drought  
must be washed/exposed to light/cold to deactivate

#### Ethylene Gas

produced in response to stress during fruit ripening, apoptosis, & exposure to auxin

### Plant Transport

#### Short-distance

occurs by osmosis (movement of free water through aquaporins)

#### Long-distance

bulk flow using:  
translocation (ATP gradient) through phloem  
(sugar)  
transpirational pull (cohesion) through xylem  
(fluid/minerals)



By hlewsey  
cheatography.com/hlewsey/

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Page 1 of 1.

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# 38 Ap Biology Plant Reproduction Answers Guide

**WJ Hussar**

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## **Table of Contents 38 Ap Biology Plant Reproduction Answers Guide**

1. Understanding the eBook 38 Ap Biology Plant Reproduction Answers Guide
  - The Rise of Digital Reading 38 Ap Biology Plant Reproduction Answers Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying 38 Ap Biology Plant Reproduction Answers 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 38 Ap Biology Plant Reproduction Answers Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from 38 Ap Biology Plant Reproduction Answers Guide
  - Personalized Recommendations
  - 38 Ap Biology Plant Reproduction Answers Guide User Reviews and Ratings
  - 38 Ap Biology Plant Reproduction Answers Guide and Bestseller Lists
5. Accessing 38 Ap Biology Plant Reproduction Answers Guide Free and Paid eBooks
  - 38 Ap Biology Plant Reproduction Answers Guide Public Domain eBooks
  - 38 Ap Biology Plant Reproduction Answers Guide eBook Subscription Services
  - 38 Ap Biology Plant Reproduction Answers Guide Budget-Friendly Options

6. Navigating 38 Ap Biology Plant Reproduction Answers Guide eBook Formats
  - ePUB, PDF, MOBI, and More
  - 38 Ap Biology Plant Reproduction Answers Guide Compatibility with Devices
  - 38 Ap Biology Plant Reproduction Answers Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 38 Ap Biology Plant Reproduction Answers Guide
  - Highlighting and Note-Taking 38 Ap Biology Plant Reproduction Answers Guide
  - Interactive Elements 38 Ap Biology Plant Reproduction Answers Guide
8. Staying Engaged with 38 Ap Biology Plant Reproduction Answers Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 38 Ap Biology Plant Reproduction Answers Guide
9. Balancing eBooks and Physical Books 38 Ap Biology Plant Reproduction Answers Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 38 Ap Biology Plant Reproduction Answers Guide
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine 38 Ap Biology Plant Reproduction Answers Guide
  - Setting Reading Goals 38 Ap Biology Plant Reproduction Answers Guide
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 38 Ap Biology Plant Reproduction Answers Guide
  - Fact-Checking eBook Content of 38 Ap Biology Plant Reproduction Answers 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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