

AP Biology Study Guide 1

Water Properties:

Cohesion- Hydrogen bonding between LIKE molecules
(ex. water with water)

Adhesion- Hydrogen bonding between UNLIKE molecules
(ex. water with a leaf)

Capillary Action- the movement of a liquid through a narrow space as a result of the forces of cohesion, adhesion, and surface tension.
(ex. Moving ground water from wet areas of soil to dry ones.)

Universal Solvent- Water is referred to as a universal solvent because it dissolves more substances than any other liquid.

Hydration Shell- the sphere of water molecules around each dissolved ion.

Moderation of Temperature- water moderates air temperature by absorbing heat from the air that is warmer and releasing stored heat to the air that is cooler.

Density- water is LESS dense as a SOLID than a LIQUID
(this is because of water's hydrogen bonds)

Polarity- water is a polar molecule because of the unequal distribution of electrons.

High Specific Heat- water has an unusually HIGH specific heat, this is how water is able to maintain its homeostasis and keep the ocean habitable.

Macromolecules:

Carbohydrates:

Elemental Makeup: Carbon, Hydrogen and Oxygen

Monomer: Monosaccharides (ex. Glucose & Fructose)

Polysaccharides:

Cellulose: Strengthens cell walls

Starch: Stores glucose for energy (plants)

Glycogen: Stores glucose for energy (animals)

Chitin: Strengthens exoskeletons and fungal cell walls

Key Function: Fuel, Carbon source to be converted to other molecules or into polymers

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Michael Brown



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Table of Contents Chapter 41 Ap Bio Guide

1. Understanding the eBook Chapter 41 Ap Bio Guide
 - The Rise of Digital Reading Chapter 41 Ap Bio Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 41 Ap Bio 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 Chapter 41 Ap Bio Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 41 Ap Bio Guide
 - Personalized Recommendations

- Chapter 41 Ap Bio Guide User Reviews and Ratings
- Chapter 41 Ap Bio Guide and Bestseller Lists
- 5. Accessing Chapter 41 Ap Bio Guide Free and Paid eBooks
 - Chapter 41 Ap Bio Guide Public Domain eBooks
 - Chapter 41 Ap Bio Guide eBook Subscription Services
 - Chapter 41 Ap Bio Guide Budget-Friendly Options
- 6. Navigating Chapter 41 Ap Bio Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 41 Ap Bio Guide Compatibility with Devices
 - Chapter 41 Ap Bio Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 41 Ap Bio Guide
 - Highlighting and Note-Taking Chapter 41 Ap Bio Guide
 - Interactive Elements Chapter 41 Ap Bio Guide
- 8. Staying Engaged with Chapter 41 Ap Bio Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 41 Ap Bio Guide
- 9. Balancing eBooks and Physical Books Chapter 41 Ap Bio Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 41 Ap Bio Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 41 Ap Bio Guide
 - Setting Reading Goals Chapter 41 Ap Bio Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 41 Ap Bio Guide
 - Fact-Checking eBook Content of Chapter 41 Ap Bio 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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