

Biology Midterm Study Guide

Differentiate between test (independent) and outcome (dependent) variables.	The independent variable is the stand-alone variable that is altered to view its effects on the dependent variable. The dependent variable is the one that is measured and tested in an experiment and is NOT controlled, but rather, a direct result of the independent variable.
What is a theory? How is that different from a law?	A theory is a scientific explanation for a patterns, events, and experiences in nature that is supported by multiple lines of evidence and hypotheses that have been tested repeatedly. It is widely accepted, susceptible to change, and can make predictions. Laws are generalizations and principals derived from scientific facts that describe how the natural world behaves under certain conditions. Laws are NOT susceptible to change, and are unrelated to theories.
Differentiate polar vs nonpolar molecules.	Polar molecules have positive and negative charges and cause an unequal sharing of electrons between two molecules. Nonpolar molecules have neutral charges and cause an equal sharing of electrons between two molecules.
How does the structure of water contribute to its unique properties?	Water is a polar molecule (two poles), which allows it to dissolve many solutes associated with cells (solubility). It also can form hydrogen bonds by joining the negatively charged oxygen from H ₂ O to the positively charged hydrogens. This enables them to have a high heat capacity and both cohesive and adhesive forces. The ability of water to take form in three states of matter is also attributed to their density.
How does water's polarity influence its properties as a solvent?	Since water is polar, it will be able to blend and mix with any ionic substance. This is because a polar molecule has two oppositely charged poles, which both attracts the opposite poles of another, different molecule. For example, in salt, the positive sodium will be attracted to the negative oxygen, and the negative chloride will be attracted to the positive hydrogen atoms.
Adhesion vs cohesion.	Adhesion is the attraction between different molecules Cohesion is the attraction between similar molecules.
What are the 4 major groups of biological molecules? Composition?	Carbohydrates ; monosaccharides (C, H, O) Lipids ; fatty acids (C, H, O) Proteins ; amino acids (C, H, O, N) Nucleic Acids ; nucleotides (C, H, O, N, P)

Biology Midterm Study Guide Answer Key

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Biology Midterm Study Guide Answer Key:

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Table of Contents Biology Midterm Study Guide Answer Key

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

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