

Honors Biology Midterm Review Guide

Directions

Answer the following questions on a sheet of your own paper!

Science Methods

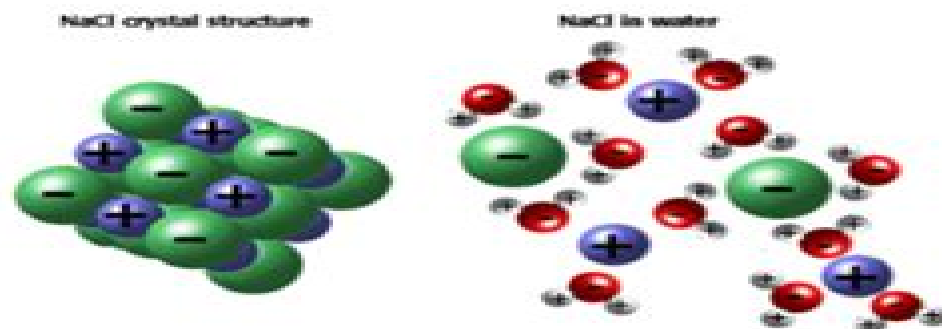
1. Make five inference and five observations about your surroundings.
2. How are inferences and observations connected in scientific investigations or experiments?
3. Create an experimental procedure making sure to note all the necessary parts of the experiment (control group, constants, independent (manipulated) variable, dependent (responding) variable and hypothesis). Also tell about the type of data you would collect to draw your conclusions.

Biochemistry

4. For each type of biological molecule, carbohydrates, lipids, nucleic acids and proteins explain the following:
 - Structure (include the monomers or subunits of each polymer)
 - a. List a distinguishing structural feature for each type of monomer (ex: sugars contain C,H,O in a 1:2:1 ratio respectively)
 - Function (How does the molecule support life in a cell or organism?)
5. Carbohydrates can be classified as monosaccharides, disaccharides or polysaccharides. Explain the differences between the three types of carbohydrates.
6. Draw and label a diagram of an atom. Include the following parts:
 - Nucleus
 - Protons
 - Electrons
 - Neutrons
 - Electron cloud (i.e., valence shells, energy levels, etc.)
7. Give three examples of molecules and elements.
8. Carbon has an atomic number of six, what does the atomic number represent about an atom?
9. Predict the charge of an atom that start off neutral then loses an electron or proton.
10. Define or diagram a covalent bond, ionic bond and hydrogen bond.
11. Water oftentimes forms hydrogen bonds to dissolve particles (solutes). Examine the picture to the right showing NaCl (salt) in a solid cube form followed by the dissolved form. Based on your observations explain how the salt is dissolved.
12. Explain the relationship between valence electrons and chemical bonds.
13. If carbon has an atomic number of six, how many covalent bonds does it typically form? Explain your reasoning.
14. List the (4) most common elements found in biological molecule and thus cells.
15. Describe the role of an enzyme using the terms shape, substrate, product and catalyst.
 - a. Explain the relationship between the shape and function of an enzyme.
16. List the changes in an enzymes environment may alter its function?
17. Compare and contrast dehydration synthesis and hydrolysis.

Cell Types

18. List the similarities and differences between prokaryotic and eukaryotic cells, and *give examples* of each.
19. Compare and contrast plant and animal cells.
20. A cell is observed to have ribosomes, genetic material (DNA) floating in the cytoplasm, a cell membrane and cell wall. Based on this information how can the cell be best classified?



Honors Biology Midterm Study Guide Answer Key

Sabine Zange



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Table of Contents Honors Biology Midterm Study Guide Answer Key

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

6. Navigating Honors Biology Midterm Study Guide Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Honors Biology Midterm Study Guide Answer Key Compatibility with Devices
 - Honors Biology Midterm Study Guide Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Honors Biology Midterm Study Guide Answer Key
 - Highlighting and Note-Taking Honors Biology Midterm Study Guide Answer Key
 - Interactive Elements Honors Biology Midterm Study Guide Answer Key
8. Staying Engaged with Honors Biology Midterm Study Guide Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Honors Biology Midterm Study Guide Answer Key
9. Balancing eBooks and Physical Books Honors Biology Midterm Study Guide Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Honors 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 Honors Biology Midterm Study Guide Answer Key
 - Setting Reading Goals Honors Biology Midterm Study Guide Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Honors Biology Midterm Study Guide Answer Key
 - Fact-Checking eBook Content of Honors 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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