

Biology EOCT Review Sheet – The biology EOCT will be MAY 18 & 19, 2011

BIOLOGY BASICS:

- ❖ *Biology is the study of living things. It has many more specific branches such as botany (study of plants), zoology (study of animals), ecology (study of relationships between living things and the non-living world), genetics (study of heredity), mycology (study of fungi), microbiology (study of microscopic living things), taxonomy (study of classification) and many more.*
- ❖ *What do these words mean? Unicellular, multicellular, controlled experiment, autotroph, heterotroph, prokaryote, eukaryote, asexual reproduction, sexual reproduction, homeostasis, hypothesis, theory.*
- ❖ **Characteristics of Living Things:**
 - All living things are made of cells.
 - All living things are highly organized at the molecular level and also at higher levels.
 - All living things use energy.
 - All living things maintain a stable internal environment even when conditions outside their bodies change (**homeostasis**).
 - All living things grow by cell division or cell enlargement.
 - All living things reproduce organisms like themselves.
 - All living things use DNA as their genetic material

**Note: response to stimuli, movement, multicellularity, etc are evolutionary innovations not possessed by all organisms.*
- ❖ **Cell Theory**
 - All living things are made of cells.
 - Cells are the smallest structural and functional unit of life.
 - Cells only come from other pre-existing cells.

TOPIC 1: CHARACTERISTICS OF SCIENCE

1.1 Steps of the Scientific Method

- a. State the problem
- b. Gather background information about the problem
- c. Form a hypothesis
- d. Conduct a controlled experiment
 1. Test only one variable at a time
 2. Use a **control** - **omit the variable being tested (independent variable)** but keep all other conditions of the experiment the same
 3. Vary the independent variable (tested/manipulated variable)
 4. Measure the affect on the dependent variable (responding variable)
- e. Collect data using tables and charts
- f. Analyze your data through graphs and draw conclusions

1.2 Lab Safety Protocol – review safety procedures in the Appendix of your textbook

Eoct Cheat Sheet

Ying-Ying Zheng

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Table of Contents Eoct Cheat Sheet

1. Understanding the eBook Eoct Cheat Sheet
 - The Rise of Digital Reading Eoct Cheat Sheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Eoct Cheat Sheet
 - 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 Eoct Cheat Sheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Eoct Cheat Sheet

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

- Fact-Checking eBook Content of Eoct Cheat Sheet
- 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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