

## BIO 101 Exam 1 Study Guide

### Chapter 1: Life & Process of Science

- Describe why knowledge of science and scientific literacy is both relevant and important.
  - Use it to think creatively about real-world issues that have scientific component
  - Integrate these ideas into your decision making
- Define "**Biology**": scientific study of life
- List and describe the characteristics of life.
  - -Cells
    - -smallest unit of life that can function independently and perform all necessary functions of life, including reproducing itself
    - -all living things made of cells
  - -DNA: cells use DNA as the chemical material of genes
  - -Energy: cells require energy and source of building materials (matter) for growth, maintenance and repair
  - -Order: living things create/maintain order
  - -Regulation
  - -Growth/Development
  - -Respond to environment: ex- fight or flight
  - -Reproduction
  - -Evolution
- List/explain the steps in the scientific method.
  - Step 1: Make observation
  - Step 2: Hypothesis
  - Step 3: Prediction
  - Step 4: Conduct Experiment
  - Step 5: Conclusion
- Explain what a **control group** is: Control group doesn't get treatment in experiment; baseline to compare data from experiment to
- Explain what we mean by replication in experimental design.
  - must have more than 1 subject in both control & experimental groups
- Define the term "**scientific theory**" and contrast it with the term "**hypothesis**"
  - comprehensive idea that's supported by an extensive and varied evidence; broader than hypothesis & supported by scientific reasoning
- Identify the independent and dependent variables in a hypothesis.
- Interpret graphical data from a simple experiment.

### Chapters 2,3: Chemistry & Macromolecules

- Define **matter**: anything that occupies space/has mass; solid, liquid, gas
- Describe what elements comprise life and the human body.
  - 1. carbon
  - 2. hydrogen
  - 3. Oxygen— makes up the most of your body
  - 4. nitrogen
- Describe the parts of an atom (what and where and how many?).
  - **Protons**: part of atomic nucleus; have (+) charge

# Bio 101 Lab Answers

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## **Table of Contents Bio 101 Lab Answers**

1. Understanding the eBook Bio 101 Lab Answers
  - The Rise of Digital Reading Bio 101 Lab Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Bio 101 Lab Answers
  - 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 Bio 101 Lab Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Bio 101 Lab Answers
  - Personalized Recommendations
  - Bio 101 Lab Answers User Reviews and Ratings
  - Bio 101 Lab Answers and Bestseller Lists
5. Accessing Bio 101 Lab Answers Free and Paid eBooks
  - Bio 101 Lab Answers Public Domain eBooks

- Bio 101 Lab Answers eBook Subscription Services
- Bio 101 Lab Answers Budget-Friendly Options
- 6. Navigating Bio 101 Lab Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Bio 101 Lab Answers Compatibility with Devices
  - Bio 101 Lab Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Bio 101 Lab Answers
  - Highlighting and Note-Taking Bio 101 Lab Answers
  - Interactive Elements Bio 101 Lab Answers
- 8. Staying Engaged with Bio 101 Lab Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Bio 101 Lab Answers
- 9. Balancing eBooks and Physical Books Bio 101 Lab Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Bio 101 Lab Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Bio 101 Lab Answers
  - Setting Reading Goals Bio 101 Lab Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Bio 101 Lab Answers
  - Fact-Checking eBook Content of Bio 101 Lab Answers
  - 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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