

**Chemistry I: Chapter 2 Test****Multiple Choice:**

Identify the choice that best completes the statement or answers the question.

- \_\_\_\_\_ 1. Which state of matter expands when heated and is easy to compress?  
a. gas  
b. liquid  
c. solid  
d. all of the above
- \_\_\_\_\_ 2. Lead has a density of 11.3 g/cm<sup>3</sup>. What is the volume of a block of lead with a mass of 203.5 g?  
a. 2.3 cm<sup>3</sup>  
b. 25 cm<sup>3</sup>  
c. 230 cm<sup>3</sup>  
d. 2500 cm<sup>3</sup>
- \_\_\_\_\_ 3. Which of the following processes does NOT involve a change in chemical properties?  
a. rusting  
b. fermenting  
c. boiling  
d. burning
- \_\_\_\_\_ 4. What is the mass of 5.00 mL of silver if the density of silver is 10.5 g/mL?  
a. 45.6 g  
b. 22.5 g  
c. 4.79 g  
d. none of the above
- \_\_\_\_\_ 5. Which state of matter is characterized by having an indefinite shape, but a definite volume?  
a. gas  
b. liquid  
c. solid  
d. none of the above
- \_\_\_\_\_ 6. When paper turns yellow-brown upon exposure to sunlight, what type of change is likely taking place?  
a. a physical change  
b. a chemical change  
c. neither a physical change nor a chemical change  
d. both a physical change and a chemical change
- \_\_\_\_\_ 7. Which of the following does NOT involve a physical change?  
a. mixing  
b. melting  
c. grinding  
d. decomposing
- \_\_\_\_\_ 8. What must occur for a change to be a chemical reaction?  
a. There must be a change in chemical properties.  
b. There must be a change in physical properties.  
c. The change must involve a change in mass.  
d. The change must involve a change in volume.
- \_\_\_\_\_ 9. Which of the following CANNOT be classified as a substance?  
a. table salt  
b. air  
c. nitrogen  
d. gold
- \_\_\_\_\_ 10. All of the following changes to a metal are physical changes EXCEPT \_\_\_\_\_.  
a. bending  
b. melting  
c. rusting  
d. polishing
- \_\_\_\_\_ 11. Which of the following is true about compounds?  
a. They can be physically separated into their component elements.  
b. They have compositions that vary.  
c. They are substances.  
d. They have properties similar to those of their component elements.

# Chapter 3 Biology Test

**John Morris Presson**



## **Chapter 3 Biology Test:**

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### **Table of Contents Chapter 3 Biology Test**

1. Understanding the eBook Chapter 3 Biology Test
  - The Rise of Digital Reading Chapter 3 Biology Test
  - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 3 Biology Test
  - 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 3 Biology Test
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 3 Biology Test
  - Personalized Recommendations
  - Chapter 3 Biology Test User Reviews and Ratings

- Chapter 3 Biology Test and Bestseller Lists
- 5. Accessing Chapter 3 Biology Test Free and Paid eBooks
  - Chapter 3 Biology Test Public Domain eBooks
  - Chapter 3 Biology Test eBook Subscription Services
  - Chapter 3 Biology Test Budget-Friendly Options
- 6. Navigating Chapter 3 Biology Test eBook Formats
  - ePub, PDF, MOBI, and More
  - Chapter 3 Biology Test Compatibility with Devices
  - Chapter 3 Biology Test Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Chapter 3 Biology Test
  - Highlighting and Note-Taking Chapter 3 Biology Test
  - Interactive Elements Chapter 3 Biology Test
- 8. Staying Engaged with Chapter 3 Biology Test
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Chapter 3 Biology Test
- 9. Balancing eBooks and Physical Books Chapter 3 Biology Test
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Chapter 3 Biology Test
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 3 Biology Test
  - Setting Reading Goals Chapter 3 Biology Test
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 3 Biology Test
  - Fact-Checking eBook Content of Chapter 3 Biology Test
  - 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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