

Name _____ Date _____ Class _____

CHAPTER 3 STUDY GUIDE FOR CONTENT MASTERY

Matter—Properties and Changes

Section 3.1 Properties of Matter

In your textbook, read about physical properties and chemical properties of matter.

Use each of the terms below just once to complete the passage.

chemical density	mass properties	physical substance
---------------------	--------------------	-----------------------

Matter is anything with (1) mass and volume. A (2) substance is a form of matter with a uniform and unchanging composition. Substances have specific, unchanging (3) properties that can be observed. Substances have both physical and chemical properties. (4) Physical properties can be observed without changing a substance's chemical composition. Color, hardness, and (5) density are examples. Other properties cannot be observed without changing the composition of a substance. These are called (6) chemical properties. An example is the tendency of iron to form rust when exposed to air.

Label each property as either physical or chemical.

- | | |
|-----------------|---|
| <u>physical</u> | 7. Chemical formula H_2O |
| <u>chemical</u> | 8. Irons react vigorously when exposed to moist air |
| <u>chemical</u> | 9. Remains unchanged when in the presence of nitrogen |
| <u>physical</u> | 10. Colorless |
| <u>physical</u> | 11. Solid at normal temperatures and pressures |
| <u>chemical</u> | 12. Ability to combine with another substance |
| <u>physical</u> | 13. Melting point |
| <u>physical</u> | 14. Liquid at normal temperatures and pressures |
| <u>physical</u> | 15. Boiling point is $100^\circ C$ |
| <u>physical</u> | 16. Conducts electricity |
| <u>physical</u> | 17. Density is $\frac{1}{2} \frac{g}{cm^3}$ |

Name _____ Date _____ Class _____

CHAPTER 3 STUDY GUIDE FOR CONTENT MASTERY

Section 3.1 continued

In your textbook, read about states of matter.

Label each drawing with one of these words: solid, liquid, gas.



For each statement below, write true or false.

- | | |
|--------------|--|
| <u>true</u> | 21. All matter that we encounter in everyday life exists as one of these physical forms. |
| <u>true</u> | 22. A solid has definite shape and volume. |
| <u>false</u> | 23. A liquid has a definite shape and takes on the volume of its container. |
| <u>true</u> | 24. A gas has both the shape and the volume of its container. |
| <u>false</u> | 25. The particles in a gas cannot be compressed into a smaller volume. |
| <u>false</u> | 26. Liquids tend to contract when heated. |
| <u>false</u> | 27. The particles in a solid are spaced far apart. |
| <u>false</u> | 28. The words gas and vapor can be used interchangeably. |

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**Denise Guinn, Rebecca Brewer, Rachel
C. Lum**



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Table of Contents Solutions Study Guide Chemistry Answer Key

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

- ePub, PDF, MOBI, and More
- Solutions Study Guide Chemistry Answer Key Compatibility with Devices
- Solutions Study Guide Chemistry Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Solutions Study Guide Chemistry Answer Key
 - Highlighting and Note-Taking Solutions Study Guide Chemistry Answer Key
 - Interactive Elements Solutions Study Guide Chemistry Answer Key
- 8. Staying Engaged with Solutions Study Guide Chemistry Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solutions Study Guide Chemistry Answer Key
- 9. Balancing eBooks and Physical Books Solutions Study Guide Chemistry Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solutions Study Guide Chemistry Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Solutions Study Guide Chemistry Answer Key
 - Setting Reading Goals Solutions Study Guide Chemistry Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Solutions Study Guide Chemistry Answer Key
 - Fact-Checking eBook Content of Solutions Study Guide Chemistry Answer Key
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
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