

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
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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.

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

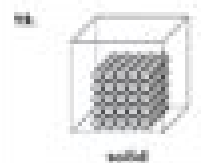
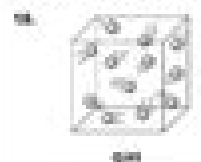
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CHAPTER 3 STUDY GUIDE FOR CONTENT MASTERY

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.

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

Chemistry Matter And Change Study Guide

Clyde Metz



Chemistry Matter And Change Study Guide:

Glencoe Chemistry Glencoe/McGraw-Hill,2002 *Chemistry: Matter & Change, Study Guide For Content Mastery, Student Edition* McGraw Hill,2001-03-30 Study Guide and Reinforcement Worksheets allow for differentiated instruction through a wide range of question formats There are worksheets and study tools for each section of the text that help teachers track students progress toward understanding concepts Guided Reading Activities help students identify and comprehend the important information in each chapter Chemistry ,2009 *Chemical Principles Student's Study Guide & Solutions Manual* John Krenos,Joseph Potenza,Loretta Jones,Lynn Koplitz,Thomas Spence,2004-03-19 This combination manual is designed to help students avoid common mistakes and understand the material better The solutions manual section includes detailed answers and explanations to the odd numbered exercises in the text *Glencoe Chemistry Matter and Change Laboratory Manual* Glencoe/McGraw-Hill,2001-07 **STUDYGUIDE FOR CHEMISTRY ES 97** Cram101 Textbook Reviews,2016-09-06 Never HIGHLIGHT a Book Again Includes all testable terms concepts persons places and events Cram101 Just the FACTS101 studyguides gives all of the outlines highlights and quizzes for your textbook with optional online comprehensive practice tests Only Cram101 is Textbook Specific Accompanies 9780078772375 This item is printed on demand **Basic Concepts of Chemistry, 9e Study Guide and Solutions Manual** Leo J. Malone,Theodore O. Dolter,2012-01-03 The 9th edition of Malone s Basic Concepts of Chemistry provides many new and advanced features that continue to address general chemistry topics with an emphasis on outcomes assessment New and advanced features include an objectives grid at the end of each chapter which ties the objectives to examples within the sections assessment exercises at the end each section and relevant chapter problems at the end of each chapter A new Math Check allows quick access to the needed basic skill The first chapter now includes brief introductions to several fundamental chemical concepts and Chapter Synthesis Problems have been added to the end of each chapter to bring key concepts into one encompassing problem Every concept in the text is clearly illustrated with one or more step by step examples Making it Real essays have been updated to present timely and engaging real world applications emphasizing the relevance of the material they are learning This edition continues the end of chapter Student Workshop activities to cater to the many different learning styles and to engage users in the practical aspect of the material discussed in the chapter The Practice of Chemistry Study Guide & Solutions Manual Pamela Mills,Amina El-Ashmawy,2003-04-14 Designed to help students understand the material better and avoid common mistakes Also includes solutions and explanations to odd numbered exercises Study Guide to Accompany Calculus for the Management, Life, and Social Sciences Clyde Metz,1984-01-01 Study Guide to Accompany Calculus for the Management Life and Social Sciences **Barron's Science 360: A Complete Study Guide to Chemistry with Online Practice** Barron's Educational Series,Mark Kernion,Joseph A. Mascetta,2021-09-07 provides a complete guide to the fundamentals of chemistry Page 4 of cover

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