

Name \_\_\_\_\_ Date \_\_\_\_\_ Class \_\_\_\_\_

**CHAPTER 4 STUDY GUIDE FOR CONTENT MASTERY****The Structure of the Atom****Section 4.1 Early Theories of Matter***In your textbook, read about the philosophers, John Dalton, and defining the atom.**For each statement below, write true or false.*

- false** \_\_\_\_\_ 1. Ancient philosophers regularly performed controlled experiments.
- true** \_\_\_\_\_ 2. Philosophers formulated explanations about the nature of matter based on their own experiences.
- true** \_\_\_\_\_ 3. Both Democritus and Dalton suggested that matter is made up of atoms.
- true** \_\_\_\_\_ 4. Dalton's atomic theory stated that atoms separate, combine, or rearrange in chemical reactions.
- false** \_\_\_\_\_ 5. Dalton's atomic theory stated that matter is mostly empty space.
- false** \_\_\_\_\_ 6. Dalton was correct in thinking that atoms could not be divided into smaller particles.
- true** \_\_\_\_\_ 7. Dalton's atomic theory stated that atoms of different elements combine in simple whole-number ratios to form compounds.
- true** \_\_\_\_\_ 8. Dalton thought that all atoms of a specific element have the same mass.
- false** \_\_\_\_\_ 9. Democritus proposed that atoms are held together by chemical bonds, but no one believed him.
- true** \_\_\_\_\_ 10. Dalton's atomic theory was based on careful measurements and extensive research.
- false** \_\_\_\_\_ 11. There are no instruments powerful enough to measure atoms so that they can be seen.
- true** \_\_\_\_\_ 12. The smallest particle of an element that retains the properties of that element is called an atom.

Study Guide for Content Mastery

Chemistry: Matter and Change • Chapter 4

19

Name \_\_\_\_\_ Date \_\_\_\_\_ Class \_\_\_\_\_

**CHAPTER 4 STUDY GUIDE FOR CONTENT MASTERY****Section 4.2 Subatomic Particles and the Nuclear Atom***In your textbook, read about discovering the electron and the nuclear atom.**For each item in Column A, write the letter of the matching item in Column B.*

Column A	Column B
5. _____ 1. Proposed the nuclear atomic model	a. Thomson
6. _____ 2. Determined the mass-to-charge ratio of an electron	b. Millikan
7. _____ 3. Calculated the mass of an electron	c. Rutherford

*Draw and label a diagram of each atomic model.*

4. **plum pudding model**

Drawing should look like a ball of chocolate chip cookie dough. The chocolate chips should be labeled with negative charge or as electrons. The dough should be labeled as evenly distributed positive charges.

5. **no clear atomic model**

Drawing should look like a peach with a pit. The pit should be labeled nucleus and should include labeled protons and neutrons. The outer circle of the peach should be labeled electrons.

*In your textbook, read about the discovery of protons and neutrons.**Complete the following table of protons, electrons, and neutrons characteristics.*

Particle	Symbol	Location	Relative Charge	Relative Mass
1. Proton	$p^+$	In the nucleus	$1+$	1
2. Neutron	$n^0$	In the nucleus	0	1
3. Electron	$e^-$	In the space surrounding the nucleus	$1-$	$1/1840$

20 Chemistry: Matter and Change • Chapter 4

Study Guide for Content Mastery

# Chemistry Matter And Change Chapter 4 Study Guide

**Morris Hein, Susan Arena**



## **Chemistry Matter And Change Chapter 4 Study Guide:**

**Hazmat Chemistry Study Guide (Second Edition)** Jill Meryl Levy, 2011      **Chemistry, Study Guide** James E. Brady, John R. Holum, 1993-02-11 Offers accurate lucid and interesting explanations of basic concepts and facts of chemistry while helping students develop skills in analytical thinking and problem solving Students are taught in a variety of ways to think of skills as tools that can be used to solve complex problems Several aids are included to help focus and inspire student interest frequent reference to common chemicals in commercial products numerous photographs of reactions in chapter practice exercises following worked examples      **Chemistry, Student Study Guide** John A. Olmsted, Gregory M. Williams, 2002-01-04 This third edition continues to innovate by providing students with an integrated and modern approach to the subject The text emphasizes the modern tools of chemistry while incorporating historical evidence and its unique molecular quantitative emphasis is further reinforced by an integrated media package developed by the authors Also of benefit is the just in time presentation of key content only providing details once they are needed While key topics and analytical techniques have been updated there is now an additional third chapter on chemical equilibrium The authors have also developed an expanded and more integrated problem solving emphasis that now incorporates a 4 step strategy throughout complete with text icons The whole is backed by a range of supplements including a new illustration program a tutorial CD interactive learningware an extensive Web CT component an instructor s resource CD and a solution CD      **O Level Chemistry Questions and Answers PDF** Arshad Iqbal, The O Level Chemistry Quiz Questions and Answers PDF IGCSE GCSE Chemistry Competitive Exam Questions Chapter 1 14 Practice Tests Class 9 10 Chemistry Textbook Questions for Beginners includes revision guide for problem solving with hundreds of solved questions O Level Chemistry Questions and Answers PDF book covers basic concepts analytical and practical assessment tests O Level Chemistry Quiz PDF book helps to practice test questions from exam prep notes The O Level Chemistry Quiz Questions and Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved tests O Level Chemistry Questions and Answers PDF Free download chapter 1 a book covers solved common questions and answers on chapters Acids and bases chemical bonding and structure chemical formulae and equations electricity electricity and chemicals elements compounds mixtures energy from chemicals experimental chemistry methods of purification particles of matter redox reactions salts and identification of ions and gases speed of reaction and structure of atom tests for school and college revision guide Chemistry Interview Questions and Answers PDF Download free eBook s sample covers beginner s solved questions textbook s study notes to practice online tests The IGCSE GCSE Chemistry Interview Questions Chapter 1 14 PDF book includes high school question papers to review practice tests for exams O Level Chemistry Practice Tests a textbook s revision guide with chapters tests for IGCSE NEET MCAT GRE GMAT SAT ACT competitive exam O Level Chemistry Questions Bank Chapter 1 14 PDF book covers problem solving exam tests from chemistry textbook and practical eBook chapter wise as Chapter 1

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The

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Guide to Accompany Chemistry Kenneth J. Hughes, Paul B. Kelter, 2002-05 Reviews essential points from the text presents problems and hints to assist the student in solving them Solutions to selected problems in the end of chapter problem sets are included By Kenneth Hughes of the University of Wisconsin Madison

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### **Table of Contents Chemistry Matter And Change Chapter 4 Study Guide**

1. Understanding the eBook Chemistry Matter And Change Chapter 4 Study Guide
  - The Rise of Digital Reading Chemistry Matter And Change Chapter 4 Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Chemistry Matter And Change Chapter 4 Study Guide
  - 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 Chemistry Matter And Change Chapter 4 Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chemistry Matter And Change Chapter 4 Study Guide
  - Personalized Recommendations
  - Chemistry Matter And Change Chapter 4 Study Guide User Reviews and Ratings
  - Chemistry Matter And Change Chapter 4 Study Guide and Bestseller Lists

5. Accessing Chemistry Matter And Change Chapter 4 Study Guide Free and Paid eBooks
  - Chemistry Matter And Change Chapter 4 Study Guide Public Domain eBooks
  - Chemistry Matter And Change Chapter 4 Study Guide eBook Subscription Services
  - Chemistry Matter And Change Chapter 4 Study Guide Budget-Friendly Options
6. Navigating Chemistry Matter And Change Chapter 4 Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Chemistry Matter And Change Chapter 4 Study Guide Compatibility with Devices
  - Chemistry Matter And Change Chapter 4 Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Chemistry Matter And Change Chapter 4 Study Guide
  - Highlighting and Note-Taking Chemistry Matter And Change Chapter 4 Study Guide
  - Interactive Elements Chemistry Matter And Change Chapter 4 Study Guide
8. Staying Engaged with Chemistry Matter And Change Chapter 4 Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Chemistry Matter And Change Chapter 4 Study Guide
9. Balancing eBooks and Physical Books Chemistry Matter And Change Chapter 4 Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Chemistry Matter And Change Chapter 4 Study Guide
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Chemistry Matter And Change Chapter 4 Study Guide
  - Setting Reading Goals Chemistry Matter And Change Chapter 4 Study Guide
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chemistry Matter And Change Chapter 4 Study Guide
  - Fact-Checking eBook Content of Chemistry Matter And Change Chapter 4 Study Guide
  - 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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