Chapter 4 Atomic Structure

Section 4.2 The Structure of an Atom (pages 108–112)

This section compares the properties of three subatomic particles. It also discusses atomic numbers, mass numbers, and isotopes.

Reading Strategy (page 108)

Monitoring Your Understanding Before you read, list in the table shown what you know about atoms and what you would like to learn. After you read, list what you have learned. For more information on this Reading Strategy, see the Reading and Study Skills in the Skills and Reference Handbook at the end of your textbook.

What I Know	What I Would	What I Have
About Atoms	Like to Learn	Learned
Most students will know that atoms are the "building blocks" of matter, and some may know that atoms contain subatomic particles.	Based on the title of the section, students may say that they want to learn more about the structure of atoms.	

Properties of Subatomic Particles (pages 108-109)

1. What are three subatomic particles?

a. Protons b. Electrons c. Neutrons

Circle the letter that identifies a subatomic particle with a positive charge.

a. nucleus

(b) proton

c. neutron

d. electron

Why did Chadwick conclude that the particles produced by his experiment were neutral in charge? A charged object did not deflect the paths of the particles.

Comparing Subatomic Particles (pages 109-110)

Circle the letters of properties that vary among subatomic particles.

a. color

(b) mass

c. charge

d location in the atom

Circle the letter of the expression that accurately compares the masses of neutrons and protons.

a mass of 1 neutron = mass of 1 proton

b. mass of 2000 neutrons = mass of 1 proton

c. mass of 1 electron = mass of 1 proton

d. mass of 1 neutron = mass of 1 electron

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- 1. Understanding the eBook 4 Atomic Structure Guided Answers Pearson Education 132885
 - The Rise of Digital Reading 4 Atomic Structure Guided Answers Pearson Education 132885
 - Advantages of eBooks Over Traditional Books
- 2. Identifying 4 Atomic Structure Guided Answers Pearson Education 132885
 - 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 4 Atomic Structure Guided Answers Pearson Education 132885
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from 4 Atomic Structure Guided Answers Pearson Education 132885

- Personalized Recommendations
- 4 Atomic Structure Guided Answers Pearson Education 132885 User Reviews and Ratings
- 4 Atomic Structure Guided Answers Pearson Education 132885 and Bestseller Lists
- 5. Accessing 4 Atomic Structure Guided Answers Pearson Education 132885 Free and Paid eBooks
 - 4 Atomic Structure Guided Answers Pearson Education 132885 Public Domain eBooks
 - 4 Atomic Structure Guided Answers Pearson Education 132885 eBook Subscription Services
 - 4 Atomic Structure Guided Answers Pearson Education 132885 Budget-Friendly Options
- 6. Navigating 4 Atomic Structure Guided Answers Pearson Education 132885 eBook Formats
 - o ePub, PDF, MOBI, and More
 - 4 Atomic Structure Guided Answers Pearson Education 132885 Compatibility with Devices
 - 4 Atomic Structure Guided Answers Pearson Education 132885 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 4 Atomic Structure Guided Answers Pearson Education 132885
 - Highlighting and Note-Taking 4 Atomic Structure Guided Answers Pearson Education 132885
 - Interactive Elements 4 Atomic Structure Guided Answers Pearson Education 132885
- 8. Staying Engaged with 4 Atomic Structure Guided Answers Pearson Education 132885
 - o Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 4 Atomic Structure Guided Answers Pearson Education 132885
- 9. Balancing eBooks and Physical Books 4 Atomic Structure Guided Answers Pearson Education 132885
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 4 Atomic Structure Guided Answers Pearson Education 132885
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 4 Atomic Structure Guided Answers Pearson Education 132885
 - Setting Reading Goals 4 Atomic Structure Guided Answers Pearson Education 132885
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 4 Atomic Structure Guided Answers Pearson Education 132885

- Fact-Checking eBook Content of 4 Atomic Structure Guided Answers Pearson Education 132885
- 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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