

## 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 About Atoms   | What I Would Like to Learn   | What I Have 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)**

- 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

# Chapter 4 Atomic Structure Answers

**Lei Shi**



## **Chapter 4 Atomic Structure Answers:**

## **Chapter 4 Atomic Structure Answers** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Chapter 4 Atomic Structure Answers**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

<https://www.new.greenfirefarms.com/public/publication/Documents/Ultimate%20Ai%20Seo%20Tools%20Online%20For%20Beginners.pdf>

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