

13

ELECTRONS IN ATOMS

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SECTION 13.1 MODELS OF THE ATOM (pages 361–366)

This section summarizes the development of atomic theory. It also explains the significance of quantized energies of electrons as they relate to the quantum mechanical model of the atom.

► The Evolution of Atomic Models (pages 361–363)

1. What are the chemical properties of atoms, ions, and molecules related to?

The properties are related to the arrangement of electrons.

2. Complete the table about atomic models and the scientists who developed them.

Scientist	Model of Atom
Dalton	The atom is a solid indivisible mass.
Thomson	The atom is a ball of positive charge with electrons stuck into the ball.
Rutherford	Most of an atom's mass is concentrated in the small, positively charged nucleus. The electrons surround the nucleus and the rest of the atom is empty space.
Bohr	Electrons are arranged in concentric circular paths around the nucleus.

3. The energy level of an electron is the region around the nucleus where the electron is likely to be moving.
4. Is the following sentence true or false? The electrons in an atom can exist between energy levels. false
5. Circle the letter of the term that completes the sentence correctly. A quantum of energy is the amount of energy required to
- move an electron from its present energy level to the next lower one
 - maintain an electron in its present energy level
 - ☒ move an electron from its present energy level to the next higher one
6. In general, the higher the electron is on the energy ladder, the farther it is from the nucleus.

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M Carnoy



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Table of Contents Prentice Hall Chemistry 13 1 Worksheet Answers

1. Understanding the eBook Prentice Hall Chemistry 13 1 Worksheet Answers
 - The Rise of Digital Reading Prentice Hall Chemistry 13 1 Worksheet Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Prentice Hall Chemistry 13 1 Worksheet Answers
 - 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 a Prentice Hall Chemistry 13 1 Worksheet Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Prentice Hall Chemistry 13 1 Worksheet Answers
 - Personalized Recommendations

- Prentice Hall Chemistry 13 1 Worksheet Answers User Reviews and Ratings
- Prentice Hall Chemistry 13 1 Worksheet Answers and Bestseller Lists
- 5. Accessing Prentice Hall Chemistry 13 1 Worksheet Answers Free and Paid eBooks
 - Prentice Hall Chemistry 13 1 Worksheet Answers Public Domain eBooks
 - Prentice Hall Chemistry 13 1 Worksheet Answers eBook Subscription Services
 - Prentice Hall Chemistry 13 1 Worksheet Answers Budget-Friendly Options
- 6. Navigating Prentice Hall Chemistry 13 1 Worksheet Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Prentice Hall Chemistry 13 1 Worksheet Answers Compatibility with Devices
 - Prentice Hall Chemistry 13 1 Worksheet Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Prentice Hall Chemistry 13 1 Worksheet Answers
 - Highlighting and Note-Taking Prentice Hall Chemistry 13 1 Worksheet Answers
 - Interactive Elements Prentice Hall Chemistry 13 1 Worksheet Answers
- 8. Staying Engaged with Prentice Hall Chemistry 13 1 Worksheet Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Prentice Hall Chemistry 13 1 Worksheet Answers
- 9. Balancing eBooks and Physical Books Prentice Hall Chemistry 13 1 Worksheet Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Prentice Hall Chemistry 13 1 Worksheet Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Prentice Hall Chemistry 13 1 Worksheet Answers
 - Setting Reading Goals Prentice Hall Chemistry 13 1 Worksheet Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Prentice Hall Chemistry 13 1 Worksheet Answers
 - Fact-Checking eBook Content of Prentice Hall Chemistry 13 1 Worksheet Answers

- 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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