

## 13

## ELECTRONS IN ATOMS

## Conceptual Curriculum

- Concrete concepts
- More abstract concepts or math/problem-solving

## Standard Curriculum

- Core content
- Extension topics

## Honors Curriculum

- Core honors content
- Options to accelerate

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.

# Electrons In Atoms Worksheet Answers

**J Dewey**



## **Electrons In Atoms Worksheet Answers:**

This book delves into Electrons In Atoms Worksheet Answers. Electrons In Atoms Worksheet Answers is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Electrons In Atoms Worksheet Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Electrons In Atoms Worksheet Answers
    - Chapter 2: Essential Elements of Electrons In Atoms Worksheet Answers
    - Chapter 3: Electrons In Atoms Worksheet Answers in Everyday Life
    - Chapter 4: Electrons In Atoms Worksheet Answers in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Electrons In Atoms Worksheet Answers. This chapter will explore what Electrons In Atoms Worksheet Answers is, why Electrons In Atoms Worksheet Answers is vital, and how to effectively learn about Electrons In Atoms Worksheet Answers.
  3. In chapter 2, this book will delve into the foundational concepts of Electrons In Atoms Worksheet Answers. The second chapter will elucidate the essential principles that must be understood to grasp Electrons In Atoms Worksheet Answers in its entirety.
  4. In chapter 3, this book will examine the practical applications of Electrons In Atoms Worksheet Answers in daily life. This chapter will showcase real-world examples of how Electrons In Atoms Worksheet Answers can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Electrons In Atoms Worksheet Answers in specific contexts. This chapter will explore how Electrons In Atoms Worksheet Answers is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, this book will draw a conclusion about Electrons In Atoms Worksheet Answers. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Electrons In Atoms Worksheet Answers.

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