

## 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.

# Chapter 13 Electrons In Atoms Practice Problems Answers

**Ralph Thomas Myers**



## Chapter 13 Electrons In Atoms Practice Problems Answers:

Survival Guide to General Chemistry Patrick E. McMahon, Rosemary McMahon, Bohdan Khomtchouk, 2019-02-13 This work evolved over thirty combined years of teaching general chemistry to a variety of student demographics. The focus is not to recap or review the theoretical concepts well described in the available texts. Instead, the topics and descriptions in this book make available specific, detailed, step-by-step methods and procedures for solving the major types of problems in general chemistry. Explanations, instructional process sequences, solved examples, and completely solved practice problems are greatly expanded, containing significantly more detail than can usually be devoted to in a comprehensive text. Many chapters also provide alternative viewpoints as an aid to understanding. Key Features: The authors have included every major topic in the first semester of general chemistry and most major topics from the second semester. Each is written in a specific and detailed step-by-step process for problem solving, whether mathematical or conceptual. Each topic has greatly expanded examples and solved practice problems containing significantly more detail than found in comprehensive texts. Includes a chapter designed to eliminate confusion concerning acid-base reactions, which often persists through working with acid-base equilibrium. Many chapters provide alternative viewpoints as an aid to understanding. This book addresses a very real need for a large number of incoming freshmen in STEM fields.

**A Level Chemistry MCQ (Multiple Choice Questions)** Arshad Iqbal, 2019-06-18. The A Level Chemistry Multiple Choice Questions MCQ Quiz with Answers PDF. A Level Chemistry MCQ PDF Download. Quiz Questions Chapter 1-28. Practice Tests with Answer Key. IGCSE GCE Chemistry Questions Bank. MCQs Notes includes revision guide for problem solving with hundreds of solved MCQs. A Level Chemistry MCQ with Answers PDF book covers basic concepts, analytical and practical assessment tests. A Level Chemistry MCQ PDF book helps to practice test questions from exam prep notes. The A Level Chemistry MCQs with Answers PDF eBook includes revision guide with verbal, quantitative and analytical past papers, solved MCQs. A Level Chemistry Multiple Choice Questions and Answers MCQs PDF. Free download chapter 1. A book covers solved quiz questions and answers on chapters: Alcohols and esters, atomic structure and theory, benzene, chemical compound, carbonyl compounds, carboxylic acids, acyl compounds, chemical bonding, chemistry of life, electrode potential, electrons in atoms, enthalpy change, equilibrium, group IV, groups II and VII, halogenoalkanes, hydrocarbons, introduction to organic chemistry, ionic equilibria, lattice energy, moles and equations, nitrogen and sulfur, organic and nitrogen compounds, periodicity, polymerization, rates of reaction, reaction kinetics, redox reactions, and electrolysis, states of matter, transition elements, tests for college and university, revision guide. A Level Chemistry Quiz Questions and Answers PDF free download eBook. Sample covers: beginner's solved questions, textbook's study notes to practice online tests. The book IGCSE GCE Chemistry MCQs Chapter 1-28 PDF includes high school question papers to review, practice tests for exams. A Level Chemistry Multiple Choice Questions MCQ with Answers PDF digital edition eBook, a study guide with textbook chapters, tests for IGCSE, NEET, MCAT, GRE, GMAT, SAT, ACT, competitive exam. A Level Chemistry Mock Tests Chapter 1-28.

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