

# Chapter 4 Atomic Structure Section 41 Studying Atoms Answers

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## MICHAEL RODGERS

Chapter 4 Atomic Structure Section 4.1 Studying Atoms (pages 100-105) This section discusses the development of atomic models. Reading Strategy (page 100) Summarizing As you read, complete the table about atomic models. For more information on this Reading Strategy, see the Reading and Study Skills in the Skills and Reference Handbook at the end of Chapter 4: Atomic Structure Section 4.1: Studying Atoms Measuring Atomic Mass Instead of grams, the unit we use is the Atomic Mass Unit (amu) It is defined as one-twelfth the mass of a carbon-12 atom. Carbon-12 chosen because of its isotope purity. Each isotope has its own atomic mass, thus we determine the average from percent abundance. Chapter 4 Atomic Structure Section 4.2 Structure of the Nuclear Atom One change to Dalton's atomic theory is that atoms are divisible into subatomic particles: Electrons, protons, and neutrons are examples of these fundamental particles There are many other types of particles, but we will study these three Chapter 4 Atomic Structure - Henry County School District Section 4.2 Structure of the Nuclear Atom OBJECTIVES: Identify three types of subatomic particles. 9 Section 4.2 Structure of the Nuclear Atom OBJECTIVES: Describe the structure of atoms, according to the Rutherford atomic model. 10 Section 4.2 Structure of the Nuclear Atom One change to Dalton's atomic theory is that atoms are divisible into Chapter 4 Section 4.1 Defining the Atom "Atomic Structure ... 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 Chapter 4 Atomic Structure Section 4.2 The Structure of an ... vocab from section 4.1 (defining the atom), 4.2 (structure of the nuclear atom), and 4.3 (distinguishing among atoms) chapter 4 (atomic structure) Flashcards | Quizlet Start studying Chapter 4: Atomic Structure Review. Learn vocabulary, terms, and more with flashcards, games, and other study tools. Chapter 4: Atomic Structure Review Flashcards | Quizlet Section 4.1.1 102 Chapter 4 • The Structure of the Atom FIRE Hot Dry Wet Cold WATER AIR EARTH Objectives Compare and contrast the atomic models of Democritus, Aristotle, and Dalton. Understand how Dalton's theory explains the conservation of mass. Review Vocabulary theory: an explanation supported by many experiments; is still subject Chapter 4: The Structure of the Atom Study Guide - Chapter 4 - The Structure of the Atom Author: Catherine Last modified by: Catherine Created Date: 8/13/2017 3:39:00 PM Company: HP Other titles: Study Guide - Chapter 4 - The Structure of the Atom Study Guide - Chapter 4 - The Structure of the Atom Chapter 4 "Atomic Structure" ... OBJECTIVES: Identify what instrument is used to observe individual atoms. Section 4.1 Defining the Atom. The Greek philosopher Democritus (460 B.C. - 370 B.C.) was among the first to suggest the existence of atoms (from the Greek word "atomos") ... 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A proton is a positively charged particle subatomic particle that is found in the nucleus of an atom. A proton has a +1 charge. Chapter 4 Atomic Structure - Henry County School District 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 Foundation Physical Science Chapter 4 Packet 100 Chapter 4 4.1 Studying Atoms Key Concepts What was Dalton's theory of the structure of matter? What contributions did Thomson and Rutherford make to the development of atomic theory? Vocabulary nucleus Reading Strategy Summarizing Copy the table. As you read, complete the table about atomic models. S Section 4.1 4.1 Studying Atoms - Weebly Section 4.2 Structure of the Nuclear Atom OBJECTIVES: Identify three types of subatomic particles. 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vocab from section 4.1 (defining the atom), 4.2 (structure of the nuclear atom), and 4.3 (distinguishing among atoms)

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Objectives Compare and contrast the atomic models of Democritus, Aristotle, and Dalton.  
Understand how Dalton's theory explains the conservation of mass. Review Vocabulary theory: an  
explanation supported by many experiments; is still subject

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matter? What contributions did Thomson and Rutherford make to the development of atomic  
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