

Chapter 4 Atomic Structure

Section 4.3 Modern Atomic Theory**(pages 113–118)***This section focuses on the arrangement and behavior of electrons in atoms.***Reading Strategy (page 113)**

Sequencing After you read, complete the description in the flow chart below of how the gain or loss of energy affects electrons in atoms. 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.

**Bohr's Model of the Atom (pages 113–116)**

1. Circle the letter of the sentence that tells how Bohr's model of the atom differed from Rutherford's model.
 - a. Bohr's model focused on the nucleus.
 - b. Bohr's model focused on the protons.
 - c. Bohr's model focused on the neutrons.
 - d. Bohr's model focused on the electrons.
2. Is the following sentence true or false? In Bohr's model of the atom, electrons have a constant speed and move in fixed orbits around the nucleus. _____
3. What can happen to an electron in an atom when the atom gains or loses energy? _____

4. What evidence do scientists have that electrons can move from one energy level to another? _____

5. Is the following sentence true or false? When electrons release energy, some of the energy may be released as visible light. _____

Electron Cloud Model (page 116)

6. Is the following sentence true or false? Bohr's model was correct in assigning energy levels to electrons. _____
7. When trying to predict the locations and motions of electrons in atoms, scientists must work with _____.
8. What is an electron cloud? _____

Section 4 3 Modern Atomic Theory Quiz

Morris Hein, Susan Arena, Cary Willard

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the text box.

Section 4 3 Modern Atomic Theory Quiz:

The Top Books of the Year Section 4 3 Modern Atomic Theory Quiz The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have captivated audiences this year. Section 4 3 Modern Atomic Theory Quiz : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Section 4 3 Modern Atomic Theory Quiz : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Section 4 3 Modern Atomic Theory Quiz : Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and thrilling novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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