

5.1**MODELS OF THE ATOM****Section Review****Objectives**

- Identify inadequacies in the Rutherford atomic model
- Identify the new assumption in the Bohr model of the atom
- Describe the energies and positions of electrons according to the quantum mechanical model
- Describe how the shapes of orbitals at different sublevels vary

Vocabulary

- energy levels
- quantum
- quantum mechanical model
- atomic orbital

Part A Completion

Use this completion exercise to check your understanding of the concepts and terms that are introduced in this section. Each blank can be completed with a term, short phrase, or number.

- The chemical properties of atoms, ions, and molecules are related to the arrangement of the 1 within them. 1. _____
- The first modern atomic theory, proposed by 2, portrayed the atom as a solid, indivisible mass. After the discovery of the electron by 3, the atomic model was revised to include them. J.J. Thomson's model is referred to as the 4 model. Rutherford pictured the atom as a dense 5 surrounded by electrons. In the Bohr model, the electrons move in 6 paths. The 7 model is the modern description of the electrons in atoms. This model estimates the 8 of finding an electron within a certain volume of space surrounding the nucleus. 2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

Part B True-False

Classify each of these statements as always true, AT; sometimes true, ST; or never true, NT.

- _____ 9. Electrons must have a certain minimum amount of energy called a quantum in order to move from one energy level to the next higher energy level.
- _____ 10. The electron probability clouds for atomic orbitals are spherical in shape.

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web ada dental claim data recommendation reporting area of the oral cavity and tooth anatomy by cdt code v6 effective jan 01 2023 dental procedure codes listed in numeric order are as published in cdt 2023 american dental association

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web according to the american dental association s dental codes list there are a total of 760 unique dental codes in the code on dental procedures and nomenclature abbreviated as the cdt code each procedural code is a four digit alphanumeric code that begins with the letter d the procedure code and ends with four digits the nomenclature

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web oct 17 2023 the current dental terminology cdt code set is maintained by the american dental association accurate recording and reporting dental treatment is supported by a set of codes that have a consistent format and are at the appropriate level of specificity to adequately encompass commonly accepted dental procedures

american dental association cdt 2022 code on dental - Sep 18 2023

web american dental association cdt 2022 code on dental procedures and nomenclature effective january 1 2022 d0120 periodic oral evaluation established patient d0140 limited oral evaluation problem focused d0145 oral evaluation for a patient under three years of age and counseling with primary caregiver