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atomic structure electrons protons neutrons and atomic models byju s *Mar 27 2024*

what is atomic structure the atomic structure of an element refers to the constitution of its nucleus and the arrangement of the electrons around it primarily the atomic structure of matter is made up of protons electrons and neutrons

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mar 26 2024 explore an atom s interior to discover the layout of its nucleus protons and electrons see all videos for this article most of the atom is empty space the rest consists of three basic types of subatomic particles protons neutrons and electrons the protons and neutrons form the atom s central nucleus

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may 18 2021 figure pageindex 1 the structure of the atom atoms have protons and neutrons in the center making the nucleus while the electrons orbit the nucleus the modern atomic theory states that atoms of one element are the same while atoms of different elements are different

atom wikipedia *Dec 24 2023*

an atom consists of a nucleus of protons and generally neutrons surrounded by an electromagnetically bound swarm of electrons the chemical elements are distinguished from each other by the number of protons that are in their atoms for example any atom that contains 11 protons is sodium and any atom that contains 29 protons is copper

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to understand why they are unique you need to understand the structure of the atom the fundamental individual particle of an element and the characteristics of its components atoms consist of electrons protons and neutrons

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atomic structure october 7 2019 definition according to dalton s theory atom is smallest particle which could not be divided any further atom is the entity that take part in a chemical reaction for example he and ne etc have atoms which exists independently while atoms of hydrogen nitrogen and oxygen do not exist independently

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electron shells and the bohr model an early model of the atom was developed in 1913 by the danish scientist niels bohr 1885 1962 the bohr model shows the atom as a central nucleus containing protons and neutrons with the electrons in circular electron shells at specific distances from the nucleus similar to planets orbiting around the sun

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