

# ATOM

*Meaning: Atom: the smallest unit of an element, consisting of a nucleus surrounded by electrons, that defines the properties of matter.*

1. The atom is the basic unit of matter that defines chemical elements.
2. Scientists have discovered that atoms are mostly empty space.
3. In the center of an atom lies the nucleus, containing protons and neutrons.
4. Atoms can bond together to form molecules through chemical reactions.
5. The behavior of atoms is governed by the principles of quantum mechanics.
6. Each element on the periodic table is defined by the number of protons in its atom.
7. Recent advancements in technology allow us to visualize individual atoms.
8. Radioactive atoms can emit radiation as they decay over time.
9. Understanding atoms is crucial for fields like chemistry and physics.
10. The concept of the atom has evolved significantly since its introduction by ancient philosophers.

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