

Chapter 2

The Chemistry of Biology

Atoms, Bonds, and Molecules

Matter: all tangible materials that occupy space and have mass

Atom: a tiny particle that cannot be subdivided into smaller substances without losing its properties

Properties of atoms:

- Protons (p^+): positively charged, found in the nucleus
- Neutrons (n^0): no charge, also found in the nucleus
- Electrons (e^-): negatively charged, surround the nucleus

Electron Orbitals and Shells

Atomic number: number of protons

Atomic mass: number of protons and neutrons

Orbital:

- Pathways in which electrons rotate around the nucleus

Models of Atomic Structure

↳ image

Major Elements of Life and Their Primary

Characteristics 1

Element:

- An atom with a characteristic atomic structure and predictable chemical behavior

Bonds and Molecules 1

Molecule:

- A chemical substance that results from the combination of two or more atoms.
- O_2 , N_2

Compound:

- A molecule composed of two or more *different* elements
- H_2O , $C_6H_{12}O_6$

Bonds and Molecules 2

Chemical bonds:

- Result when two or more atoms share, donate (lose), or accept (gain) electrons

Covalent Bonds and Polarity 1

Covalent bonds:

- Form between atoms that share electrons rather than donating or receiving them
- Single covalent bonds share a pair of electrons (H_2)
- Double covalent bonds share two pairs of electrons and are more rigid

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