

Chapter 2 - Essential Chemistry for Biology

(text) = Important

Some Basic Chemistry

- **Matter** : Anything that occupies space and has mass.
 - Three states: Solid, Liquid, and Gas
 - Composed of **elements** -> substances that cannot be broken down into other substance.
 - All living things share these elements in varying proportion:
 - 1) Sulphur
 - 2) Phosphorus
 - 3) Oxygen
 - 4) Nitrogen
 - 5) Carbon
 - 6) Hydrogen
- 25 essential elements
- Four elements make up about 96% of the weight of most cells:
 - 1) Oxygen
 - 2) Carbon
 - 3) Hydrogen
 - 4) Nitrogen
- **Trace Elements** : required in very small amounts.

Atoms

- Each element consists of one kind of **atom** -> the smallest unit of matter that still retains its chemical properties.

Basic Structure of an Atom

- Atoms are composed of three subatomic particles:
 - **Protons (Positive Charge)** - Found in the **nucleus**
 - **Neutrons (Electrically Neutral)** - Found in the **nucleus**
 - **Electrons (Negative Charge)** - Found in the **Electron Cloud**
- Elements are composed of **atoms** that differ in the number of subatomic particles .
- An atom is characterized by:
 - **Atomic Number** : the number of **Protons**
 - **Mass Numbers** : Sum of the number of **Protons plus neutrons**
 - Proton = 1 Dalton
 - Neutron = 1 Dalton
 - Electron = Negligible

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