

## 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**
  - Comprised 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

# Essential Chemistry For Biology

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