Body consists of four major elements:

- Oxygen (O) 65%
- Carbon (C) 18%
- Hydrogen (H) 9%
- Nitrogen (N) 3.5%

Lesser elements make up 3.9% of the body and include:

- Calcium (Ca), phosphorous (P), potassium (K), sulfur (S), sodium (Na), chlorine (CI), magnesium (Mg), iodine (I) and iron (Fe).
 - o Calcium important for nerve transmissions and bones.
 - o Zinc very important for immune system.

Trace elements make up less than 0.1% of the body.

Atoms: composed of subatomic particles:

- Neutrons: No electrical charge
- Protons: positive charge
- Electrons: negative charge spinning around nucleus little weight depending on how many determines the size/volume of the atom.

Nucleus: formed by protons and neutrons. Neutrons + protons = weight of the tem.

Depending on the number of positive charges will do the atom

Atom models:

- Planetary model electrons move around he niceus in fixed circular orbits.
- Orbital mode regions around the Geleus in which electrons are most likely to De found.

Atomic number = number of protons in each atom = number of electrons. Mass number = number of protons + number of neutrons.

The first ring of electrons can take up to two electrons. Further rings can take up to eight.

High hydrogen levels suppress the nervous system.

Atomic weight: The weight of 6.023x10²³ number of atoms of an element. Isotope: two different forms of same element with same number of protons and electrons but different number of neutrons.

Radioisotopes: atoms that undergo spontaneous decay called radioactivity.

Inert elements: outermost energy level (ring) fully occupied by electrons. Reactive elements: do not have their outermost energy level (ring) fully occupied by electrons.