

Ch 2 chemistry of life

Introduction to chemistry

Atoms / elements

-*Atomic number, mass number, atoms / element, neutral, proton, neutron, electron*

Ions

-*Ions, Cation, anion, electrolytes*

Bonding

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-*Molecule, compound, valence shell,*

Ionic

-*ionic bond, differ from covalent*

Covalent

-*covalent, polar covalent, differ from ionic*

pH

-*acid, base / alkaline, neutral, Buffer,*

Water / solutions

-*Functions, hydrogen bonding, osmosis, diffusion, isotonic, hypotonic, hypertonic*

Reactions

-*Free radical, synthesis / anabolism, decomposition / catabolism, displacement, combustion, dehydration synthesis, hydrolysis,*

Biochemical

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-organic molecules - carbon, hydrophilic vs hydrophobic

Carbohydrates

-Energy, glucose-monosaccharide, sucrose-disaccharide, glycogen, starch,

Proteins

-Amino acids-C,H,O,N, peptide bond, Enzymes-biological catalyst-ase ending, Denature

Fats

-Triglycerides, glycerol + fatty acids, saturated vs unsaturated,

Nucleic acids

*Nucleotide, ATP /ADP, DNA (double stranded /double helix, deoxyribose, Thymine)
vs RNA (single stranded, ribose, Uracil)*