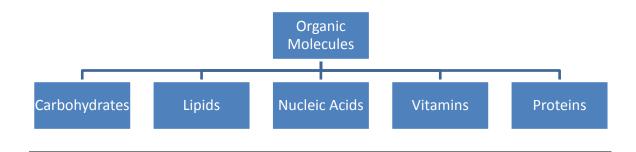
HOW TO USE THESE NOTES: EACH "=" SIGN IS A NEW BULLET UNDER THE **BOLDED HEADING**

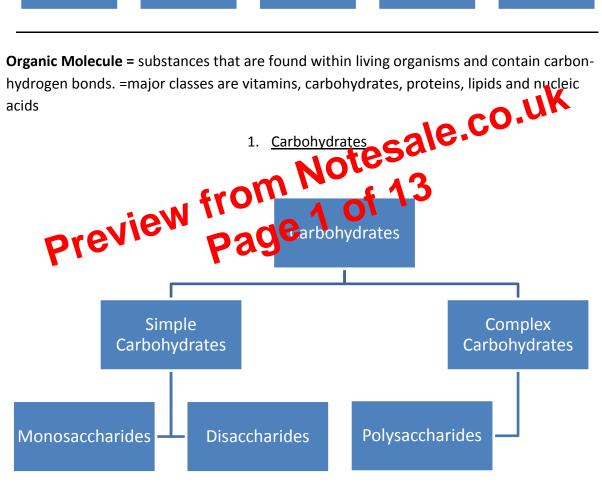
Chemistry of Life

Bio-Chemistry = the study of organic molecules and their function in living organisms

Organic Molecules

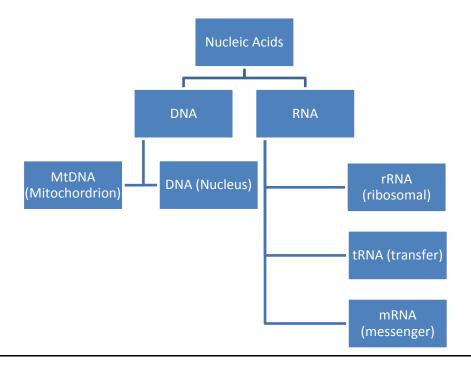


Organic Molecule = substances that are found within living organisms and contain carbonhydrogen bonds. =major classes are vitamins, carbohydrates, proteins, lipids and nucleic acids



Carbohydrates = organic molecules made of carbon, hydrogen and oxygen. = the amount of hydrogen atoms in a molecule is usually double the amount of oxygen. = monomers are connected by glycosidic bonds

Function = 1- release energy when needed, 2- store energy, 3- form certain structures.



Nucleotides= the monomers that make up nucleic acids. Made of 3 parts=1-a sugar 2-a phosphate group 3-organic nitrogen base

Deoxyribonucleic Acid = found in nucleus in the form of chromosomes (special inglaround histones) =consists of a deoxyribose sugar, a phosphate and for inflerent nitrogenous bases 1-adenine 2-thymine 3- guanine 4- cytesile

Characteristics = double helix fallenile only pairs with thymine and cytosine only pairs with guanine = they are core and by weak hydrogen bases = controls the structure and function of cells producing different process = responsible for transmitting heredity information from cell to cell and parent to offspring.

