Ap Biology Notes: Carbon

Organic Chemistry: Chemistry of living things

CHNOPS- Carbon, Hydrogen, Nitrogen, Oxygen, Phosphorus, Sulfur

Vitalism- beleif that compounds were mystically being derived from living things

Berzelius: Made this distiction between living and non living chemistry

Wohler: Made Urea from Ammonium and Cyanate

Miller and Urey: Made building blocks of larger molecules with inorganic molecules

Carbon: Most verstatile building block of molcules. Base of Organic Chemistry.

Hydrocarbons: Organic molecules made of only hydrogen and carbon atoms.

Isomers- Compounds that have the same molecular formula but different structures causing different properties.

Structural: Variation in Covalent arrangement of atoms.

Geometric: Same Covalent partnerships, but different spatial arrangements.

Enantiomers(article): Molecules that are mirror images of eachother. Usually one isomer is biologically active, the other inactive.

Functional Groups: Components of organic molecules that are most commonly involved in chemical reactions.

