

1.2 – Elements of Life

Describes the composition of macromolecules required by living organisms

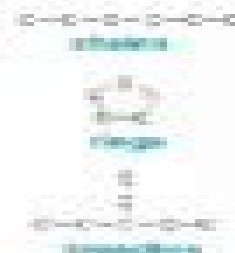
Organisms must exchange matter with the environment to grow, reproduce, and maintain organisation

Living systems require constant input of energy

- **Law of conservation of energy** – energy cannot be created or destroyed, only transformed, or transferred
- Living systems follow this law and need a constant input of energy to grow, reproduce, and maintain organisation
- Living systems mainly use the **energy stored in chemical bonds**

Chemical composition of macromolecules CH_2O CH_2O CH_2ON CH_2ONP CH_2N

- **Carbohydrates** – CH_2O (carbon, hydrogen, oxygen)
- **Lipids** – CH_2O , sometimes P (carbon, hydrogen, oxygen, phosphorus)
- **Proteins** – CH_2ON (carbon, hydrogen, oxygen, nitrogen, sulfur)
- **Nucleic Acids** – CH_2ONP (carbon, hydrogen, oxygen, nitrogen, phosphorus)



90% of life is made of carbon, hydrogen, oxygen, nitrogen

- **Carbon is the element of life**, all organic compounds have carbon, and inorganic compounds do not
- Carbon bonds with more carbon creating carbon skeletons which other atoms attach to, carbon skeletons allow for the creation of large, complex molecules
 - Carbon molecules can be used for energy storage / basic cell structures

1.3 – Intro to Biological Macromolecules

Describes the properties of the monomers and the type of bonds that connect the monomers in biological macromolecules

- **Monomers** are the specific chemical subunits that create polymers
- **Polymers** are the biological macromolecules made of many monomers
- **Covalent bonds between monomers make polymers**
- monomers have specific chemical properties allowing them to interact with each other, and are specific to the polymers they compose

Ch 29 Ap Bio Study Guide Answers

J Elliott



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section nos devices frequency maximum power range etc microwave ranges applications as signal oscillator or amplifier special advantage a devices used as oscillators or amplifiers 6 4 junction transistor

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