

MACROMOLECULES:

Introduction: All compounds can be classified in 2 broad categories:

- 1.) **Organic** compounds- Contain **carbon** and **hydrogen** atoms
- 2.) **Inorganic** compounds- Can have one or the other, but do not contain both carbon and hydrogen atoms

A. Most of your body's molecules are **organic** compounds.

- a. **Macromolecules** are built from small organic compounds the same way a railroad train is built, by linking a lot of smaller units together into long chains.
 - i. Large carbon compounds are built up from smaller simpler molecules called **monomers** (mono = **one**)
 - ii. Monomers can bind to one another to form complex molecules known as **polymers** (poly = **many**)
 - iii. A polymer consists of repeated, linked units, which can also bind forming large polymers called **Macromolecules**. (macro = **large**)
- b. Monomers link to form polymers through a chemical reaction called **condensation reaction** or **dehydration synthesis**. During the formation of polymers, Water (H_2O), is **released** or is by-product of the reaction.
- c. The breakdown of some complex molecules, such as polymers, occurs through a process known as **hydrolysis**.
 - i. Hydrolysis is the **reverse** of a condensation reaction. The **addition** of water, to some polymers can break the bonds that hold them together.



There are four main types of macromolecules found in living organisms:

- 1.) **Carbohydrates**
- 2.) **Lipids**
- 3.) **Proteins**
- 4.) **Nucleic Acids**



I.

Carbohydrates

- i. Composed of **carbon**, **hydrogen**, and **oxygen** atoms in the proportion of **1 : 2 : 1**
 1. General formula: $(CH_2O)_n$ where n is the number of carbon atoms.
 - a. Example: The sugar glucose is a small carbohydrate; its n equals 6. Therefore its chemical formula is **$C_6H_{12}O_6$** .
 - ii. The building blocks (or monomers) of carbohydrates are monosaccharides.
 - iii. **Monosaccharides** are **simple sugars** (saccharide = sugar). Examples:
 1. **Glucose**: commonly found in **blood** of animals
 2. **Galactose**: a simple sugar found in **milk**
 3. **Fructose**: commonly found in **fruit**
 - a. Glucose and Fructose both have the formula $C_6H_{12}O_6$. Sometimes compounds may have the same formula, however they have different structures/ arrangements. In such cases, those compounds are called **isomers**.

Biology The History Of Life Answer Key

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