

Name: _____

MACROMOLECULES

Date: _____

I. ELEMENTS AND MACROMOLECULES IN ORGANISMS: Most common elements in living things are **carbon, hydrogen, nitrogen, and oxygen**. These four elements constitute about **95% of your body weight**. All compounds can be classified in two broad categories --- **organic and inorganic compounds**. Organic compounds are made primarily of **carbon**. Carbon has **four outer electrons** and can form **four bonds**. Carbon can also bond to other carbon molecules forming **double, triple, or quadruple bonds**. Organic compounds also contain **hydrogen**. Since hydrogen has only one electron, it can form only **single bonds**.

Each small organic molecule can be a unit of a large organic molecule called a **macromolecule**. There are **four classes of macromolecules** (polysaccharides or **carbohydrates**, triglycerides or **lipids**, polypeptides or **proteins**, and nucleic acids such as DNA & RNA). **Carbohydrates and lipids** are made of only carbon, hydrogen, and oxygen (CHO). **Proteins** are made of carbon, hydrogen, oxygen, and nitrogen (CHON). **Nucleic acids** such as DNA and RNA contain carbon, hydrogen, oxygen, nitrogen, and phosphorus (CHON P). The body also needs trace amounts of other elements such as calcium, potassium, and sulfur for proper functioning of muscles, nerves, etc.

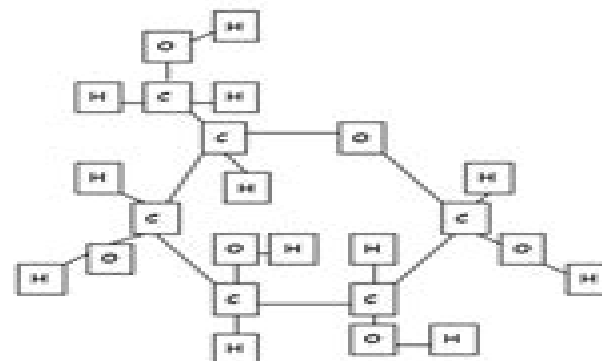
The **four main classes of organic compounds** (carbohydrates, lipids, proteins, and nucleic acids) that are **essential to the proper functioning of all living things** are known as **polymers or macromolecules**. All of these compounds are built primarily of carbon, hydrogen, and oxygen but in **different ratios**. This gives each compound **different properties**.

Questions:

1. What are the 4 main elements that make up 95% of an organism? _____
2. What are macromolecules? _____
3. Name the 4 classes of macromolecules: _____
4. What are the building blocks or subunits of macromolecules called? _____
5. Name 3 elements (symbols) your body needs trace amounts of for proper functioning _____

II. CARBOHYDRATES: are used by the body for **energy and structural support** in cell walls of plants and exoskeletons of insects and crustaceans. They are made of smaller subunits called **monosaccharides**. Monosaccharides have carbon, hydrogen, and oxygen in a **1:2:1 ratio**. Monosaccharides or **simple sugars** include **glucose, galactose, and fructose**. Although their chemical formulas are the same, they have **different structural formulas**. These simple sugars combine to make **disaccharides** (double sugars like sucrose) and **polysaccharides** (long chains like cellulose, chitin, and glycogen).

Task: *Color code* the glucose molecule to the right -----> (carbon-black, hydrogen-yellow, and oxygen-red).

**Questions:**

6. Name 2 ways our body uses carbohydrates. _____
7. What are the monomers (subunits) that make up carbohydrates? _____
8. Monosaccharides are _____ sugars
9. Name 3 monosaccharides _____
10. What are disaccharides? Give an example _____
11. Long chains of sugar are _____. Name 3 _____

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Answer Key

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