

NAME: _____ BLOCK: _____



Elements & 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 form **single bonds** with another atom and 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**).

Use the drawing of the **amino acid on this worksheet** (look ahead to another page for this sketch and remember that the **NUMBER OF LINES** from a single atom is their **NUMBER OF BONDS**) to determine the number of bonds formed by:

_____ Oxygen _____ Hydrogen _____ Nitrogen

The body also needs trace amounts of other elements such as calcium, potassium, and sulfur for proper functioning of muscles, nerves, etc.

Questions:

1. Name the 4 main elements that make up 95% of an organism.
2. Name the 4 types of bonds carbon can form.
3. What are macromolecules?
4. Name the 4 classes of macromolecules.
5. Give 2 examples of nucleic acids. _____
6. What elements make up carbohydrates & lipids (symbols)? _____
7. Name 3 elements your body needs trace amounts of for proper functioning.

Elements And Macromolecules In Organisms Answers

Lingsheng Yao



Elements And Macromolecules In Organisms Answers:

Elements And Macromolecules In Organisms Answers Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Elements And Macromolecules In Organisms Answers**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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