

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 Macromolecules In Organisms Answer Key

**Patrick Vollmar**



## **Elements Macromolecules In Organisms Answer Key:**

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governed by a model based on what we know about life on Earth terran life Most of NASA s mission planning is focused on locations where liquid water is possible and emphasizes searches for structures that resemble cells in terran organisms It is possible however that life exists that is based on chemical reactions that do not involve carbon compounds that occurs in solvents other than water or that involves oxidation reduction reactions without oxygen gas To assist NASA incorporate this possibility in its efforts to search for life the NRC was asked to carry out a study to evaluate whether nonstandard biochemistry might support life in solar system and conceivable extrasolar environments and to define areas to guide research in this area This book presents an exploration of a limited set of hypothetical chemistries of life a review of current knowledge concerning key questions or hypotheses about nonterran life and suggestions for future research **GO TO**

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**Rehovoth** Mekhon Vaitsman le-mada',1982      **Biology of Microorganisms** Thomas D. Brock,Michael T. Madigan,1991

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