



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 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. *Color* each of the elements according to the color listed next to the element's symbol. *Color code* the squirrel & carrot with the correct proportion of each element's color. *Use the diagrams of glucose* to tell how many carbons, hydrogens, and oxygens are in a single molecule.

Use the drawing of the amino acid on this sheet to determine the number of bonds formed by:

_____ Oxygen

_____ Hydrogen

_____ Nitrogen

Elements And Macromolecules In Organisms Packet Notes

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