

Biomolecule Discussion Guide **KEY**

Instructions: Fill in this guide as your teacher leads you through a discussion on biomolecules.

- I. What is a Biomolecule? **A biomolecule is an organic molecule produced by living organisms and made mostly of carbon, hydrogen, and oxygen.**
- II. Organic molecules and Inorganic molecules—what's the difference? **Organic molecules contain carbon, while inorganic molecules do not. Organic molecules are considered the "chemicals of life."**
- III. Monomer and Polymer—what's the difference? **Monomers are molecules that may react with other similar molecules to form a chain. Polymers are a chain of many monomers that are chemically bonded together.**
 - a. How are polymers formed? **Polymers are formed through a process called dehydration synthesis or condensation. During this process, two hydrogen atoms and one oxygen atom are removed from the monomers to form water, and then, the two monomers are joined together. (Students may wish to draw a diagram based on the animations shown in class).**
 - b. How are polymers broken apart? **Polymers are broken apart by the reverse of condensation, a process called hydrolysis. During this process, water is added to the polymer, which un-links the chain and breaks the polymer back down into its original monomer units.**
- IV. Carbohydrates: **Group of organic molecules that includes sugars, starches, and cellulose.**
 - a. Structure: **Made up of C, H, and O atoms in the ratio of 1 Carbon:2 Hydrogen:1 Oxygen or $(CH_2O)_n$ where n is an integer such as 5— $C_5H_{10}O_5$. Subunits are monosaccharides, such as glucose or fructose, and they are most often in a ring shape. Subunits are connected via covalent bonds. (Students may wish to draw a diagram here based on the figures shown via the PowerPoint.)**
 - b. Function: **Energy, structural support, cell wall, cell membrane marker**
- V. Lipids: **Group of organic molecules that includes fats, phospholipids (part of cell membrane), oils, waxes, and steroids**
 - a. Structure: **Macromolecules include fats and phospholipids; subunits are glycerol and fatty acids or glycerol and fatty acids plus a phosphate group. They are insoluble in water, and do not form large polymers—just two or three fatty acids with glycerol (diglyceride and triglyceride).**
 - b. Function: **Energy storage, insulation, part of cell membrane, hormones**

Biomolecule Discussion Guide Key

Clifford Lane



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