

BIOLOGY
Chapter 2, Lesson 3: Carbon Compounds
Guided Notes

OBJECTIVES

1. Name the elements _____ bonds with to make up life's molecules.
2. Describe the functions of each of the _____ groups of _____

THE CHEMISTRY OF CARBON

- What is so special about carbon that it has its own branch of chemistry called "_____ chemistry"?
- Carbon atoms have four _____ electrons, allowing them to form strong _____ bonds with many other elements and form compounds that living organisms depend on.
 - One carbon atom can bond to another and form _____
 - Carbon-carbon bonds can be _____, _____, or even _____, and carbon chains can even close up on themselves to form _____.

Carbon Structures

Carbon can form single, double, or triple bonds with other atoms. Each line between atoms in a molecular drawing represents one covalent bond.



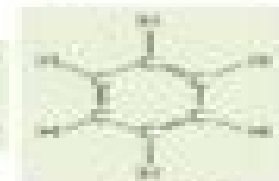
Methane



Acetylene



Butadiene



Benzene

MACROMOLECULES

- Macromolecules: large _____ molecules found in living things. means "_____".
- Produced by a process known as _____, larger compounds are built by joining smaller ones together
 - _____ (smaller units) are joined together to form _____ (larger compounds).

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