

## Organic Molecules Review Worksheet | Chapter 2 (2.3 & 2.5)

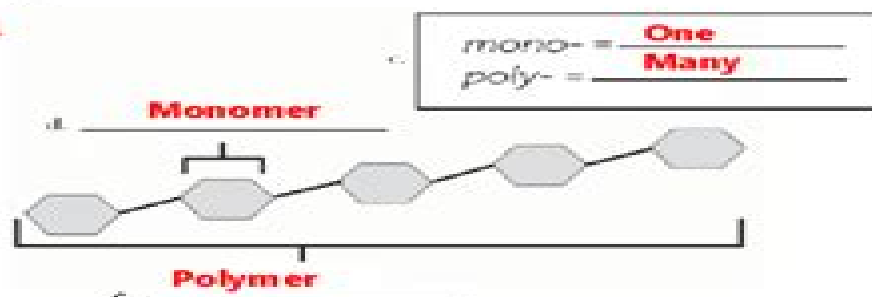
### Carbon Based Molecules

1. In terms of science, what does the term "organic" mean? Contains carbon, or carbon based.
2. What is it about Carbon's atomic structure that makes it "the building block of life"?  
It has 4 outer electrons (needs 8 to be full) so it can form up to FOUR BONDS.
3. Name the four different types of organic molecules:

<b>Carbohydrates</b>	<b>Lipids</b>	<b>Proteins</b>	<b>Nucleic acids</b>
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4. Define the following and label the following picture:

- a. Monomer: Smaller carbon based sub-unit
- b. Polymer: A chain of linked monomers



### Carbohydrates

5. List the 3 elements that make up carbohydrates:
  - a. Carbon
  - b. Hydrogen
  - c. Oxygen
6. What is the ratio of these elements to one another? 1 : 2 : 1
  - a. If a carbohydrate had 8 carbon atoms, how many hydrogen & oxygen atoms would this carbohydrate contain?
    - I. Hydrogen: 16
    - II. Oxygen: 8
7. Fill in the table for the three major polysaccharides and one monosaccharide used in biology:

Type of Carbohydrate Monomer or Polymer?	Where found?	Characteristics/Function
<b>Sugar or Glucose or Fructose</b> (Monomer)	<b>Plants</b>	<b>Source of energy/food</b>
<b>Starch</b> (Polymer)	<b>Plants/Animals</b>	<b>Excess plant sugar that gets converted and stored</b>
<b>Glycogen</b> (Polymer)	<b>Animals</b>	<b>Specific starch found in the liver and muscles of animals- it is a readily available source of energy</b>
<b>Cellulose</b> (Polymer)	<b>Plants</b>	<b>A plant starch found in the cell walls, which help make the plant rigid</b>

# Answer Key For Organic Molecules Review Answers

**G Orfield**



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