

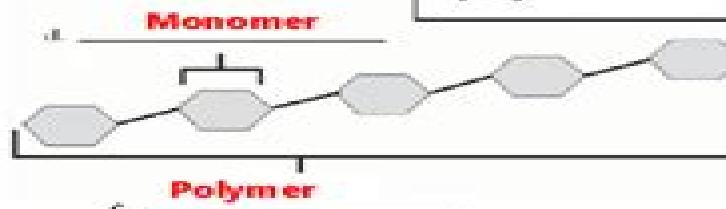
**Organic Molecules Review Worksheet | Chapter 2 (2.3 & 2.5)****Carbon Based Molecules**

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:

| Carbohydrates | Lipids | Proteins | Nucleic acids |
|---------------|--------|----------|---------------|
|---------------|--------|----------|---------------|

4. Define the following and label the following picture:
  - a. Monomer: **Smaller carbon based sub-unit**
  - b. Polymer: **A chain of linked monomers**

mono- = **One**  
poly- = **Many**

**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<br>Monomer or Polymer?       | Where found?          | Characteristics/Function   |
|---|-----------------------|--|
| <b>Sugar or Glucose or Fructose<br/>(Monomer)</b> | <b>Plants</b>         | <b>Source of energy/food</b>   |
| <b>Starch<br/>(Polymer)</b>                       | <b>Plants/Animals</b> | <b>Excess plant sugar that gets converted and stored</b>   |
| <b>Glycogen<br/>(Polymer)</b>                     | <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<br/>(Polymer)</b>                    | <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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**CK-12 Biology Teacher's Edition** CK-12 Foundation,2012-04-11 CK 12 Biology Teacher s Edition complements the CK 12 Biology Student Edition FlexBook     **Holt Chemistry** Ralph Thomas Myers,2004     **Chemistry** Karen Timberlake,2003 Chemistry An Introduction to General Organic and Biological Chemistry now in its eighth edition makes chemistry exciting by showing why important concepts are relevant to the lives and future careers of readers The new design digital images photos Career Focus features and macro to micro art enhance the new edition while it retains the many features that have made this book so successful The writing as always is exceptionally friendly Each section contains sample problems that develop readers critical thinking skills This edition also contains more conceptual problems than ever before and has been redesigned to accommodate new styles of learning and teaching with a wide variety of pedagogical tools Health and Environmental Notes throughout the book highlight topics that are relevant to readers lives and are ideal for classroom discussion Explore Your World activities in each chapter make chemistry exciting relevant and non threatening

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