Marme:	KEY	Date:	Period:

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

### Carbon Based Molecules

- 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
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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

# Monomer Monomer Polymer

### 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?
    - L. 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
Sugar or Glucose or Frutose [Monomer]	Plants	Source of energy/food
Starch (Polymer)	Plants/Animals	Excess plant sugar that gets converted and store
Glycogen (Polymer)	Animals	Specific starch found in the liver and muscles of animals- it is a readily available source of energy
Cellulose (Polymer)	Plants	A plant starch found in the cell walls, which help make the plant rigid

# **Answer Key For Organic Molecules Review Answers**

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