Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Section: \_\_\_\_\_\_\_\_

**Biomolecule Worksheet**

*Directions:* Use Chapter 3 in your textbook as well as your class notes to help you answer the following questions.

1. Identify unique characteristics about each of the 4 types of molecules as well as the monomers that make them up. How would you distinguish between them?
   1. Carbohydrates -
   2. Lipids -

* 1. Proteins -
  2. Nucleic acids -

1. Write the **elements** that are typically found in the following biomolecules next to the name of the biomolecule. Write the **element symbol** as well as the **element name**.
   1. Carbohydrates:
   2. Lipids:
   3. Proteins:
   4. Nucleic Acids:
2. Which biomolecules are used for energy storage? Which biomolecule is used for **long-term energy storage?**
3. Describe the **fluid mosaic model** of the plasma membrane. Describe how the chemical composition of the *phospholipid* contributes to membrane structure and function. How does **cholesterol** affect how fluid the membrane is?
4. For each of the following, indicate whether the molecule would be found as part of a carbohydrate, a lipid, a protein, or a nucleic acid. Then explain how you know.

a.



b.



c.

d. 