Name _____ **Period** _____

Ms Foglia **Date** _____

AP: CHAPTER 4

CARBON & THE MOLECULAR DIVERSITY OF LIFE

1. Define organic chemistry.

_____

_____

_____

2. What are the major groups of organic compounds studied in biology?

_____

_____

3. Describe some of the shapes of carbon skeletons.

_____

_____

_____

4. Define the following:

   a. Isotopes _____

   _____

   b. Geometric isotopes _____

   _____

   c. Enantiomers _____

   _____

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5. Why are enantiomers of biological interest?

_____

_____

_____

6. What is the significance of functional groups?

_____

_____

7. For each of the functional groups, complete the chart:

Group	Formula	Comments
Hydroxyl		
Carbonyl		**aldehyde**
Carbonyl		**ketone**
Carboxyl		
Amino		
Sulfhydryl		
Phosphate		