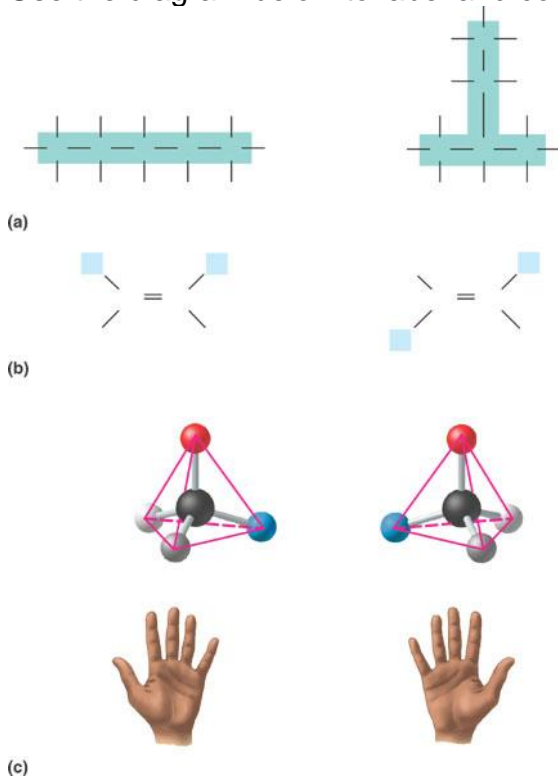


**AP Biology**  
**Chapter 4 Guided Reading Assignment**

Name \_\_\_\_\_

Again, this chapter is a review of previously covered material. We will be moving through the material very quickly, please see me for extra assistance if needed.

1. Why is organic chemistry so important in the study of biology?
2. Why was the Urey-Miller experiment so important?
3. What is special about carbon that makes it the central atom in the chemistry of life?
4. Use the diagram below to label and contrast the three types of isomers.



5. Create a table below: after each functional group – draw the structure, name the compound, write an example and note the functional properties – (doesn't this look like great quiz material?)

a. Hydroxyl

b. Carbonyl aldehyde

c. Carbonyl ketone

d. Carboxyl

e. Amino

f. Sulfhydryl

g. Phosphate