

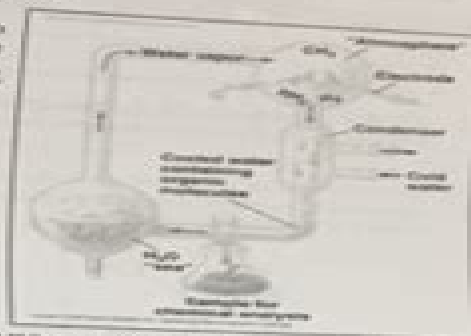
Chapter 4: Carbon and the Molecular Diversity of Life

Name \_\_\_\_\_

Period \_\_\_\_\_

**Concept 4.1 Organic chemistry is the study of carbon compounds**

1. Study this figure of Stanley Miller's experiment to simulate conditions thought to have existed on the early Earth. Explain the elements of this experiment, using arrows to indicate what occurs in various parts of the apparatus.



2. What was collected in the sample for chemical analysis? What was concluded from the results of this experiment?

**Concept 4.2 Carbon atoms can form diverse molecules by bonding to four other atoms**

3. Make an electron distribution diagram of carbon. It is essential that you know the answers to these questions:
  - a. How many valence electrons does carbon have?
  - b. How many bonds can carbon form?
  - b. What type of bonds does it form with other elements?
4. Carbon chains form skeletons. List here the types of skeletons that can be formed.
5. What is a *hydrocarbon*? Name two. Are hydrocarbons hydrophobic or hydrophilic?

# Holtzclaw Ap Biology Guide Answers Ch 4

**Brendan G. Carr**



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