

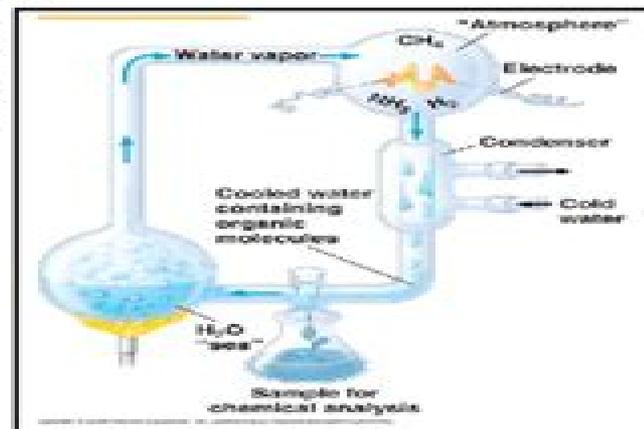
Name _____ Period _____

Chapter 4: Carbon and the Molecular Diversity of Life

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.

The water mixture in the "sea" at the bottom of the flask was heated; thus vapor entered the "atmosphere" of the flask, containing a mixture of hydrogen gas, methane, ammonia, and water vapor. Sparks were discharged to mimic lightning. A condenser cooled the "atmosphere," raining water molecules down into the "sea". As material cycled through the apparatus, Miller periodically collected samples for analysis.



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

Miller collected several organic compounds, both simple, and complex compounds. His results support that abiotic synthesis of organic compounds could have been an early stage in the origin of life.

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? 4
 - b. How many bonds can carbon form? 4
 - b. What type of bonds does it form with other elements?
Covalent
4. Carbon chains form skeletons. List here the types of skeletons that can be formed.
Double bonds, branched, or unbranched. Some carbon skeletons are arranged in rings.
5. What is a hydrocarbon? Name two. Are hydrocarbons hydrophobic or hydrophilic?
Hydrocarbon are hydrophobic consists of only carbon and hydrogen, such as methane and benzene.

Chapter 27 4 Biology Reading Answers

ML Yell



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