

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.



2. What was collected in the sample for chemical analysis? What was concluded from the results of this experiment? *There were a variety of organic molecules that are common in organisms (hydrocarbons, amino acids,  $CH_2O$ ,  $CHN$  and a more) concluded that organic molecules may have been synthesized abiotically on the Earth*

### 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!!! up to 4*
- b. What type of bonds does it form with other elements?

*covalent bonds*

4. Carbon chains form skeletons. List here the types of skeletons that can be formed.

- 1.) length
- 2.) presence of rings
- 3.) branching
- 4.) double bond position

5. What is a hydrocarbon? Name two. Are hydrocarbons hydrophobic or hydrophilic?

*An organic molecule consisting only of carbon & Hydroge*  
*Hydrophobic*

# Ap Bio Reading Guide Answers Chapter 34

**Therald Moeller**



## Ap Bio Reading Guide Answers Chapter 34:

Chemistry with Inorganic Qualitative Analysis Therald Moeller, 1984      *Normal Instructor and Teachers World* ,1918

**Whitaker's Cumulative Book List** ,1972      **Biology, Evolution, Chapters 33-35** Gilbert D. Brum, Larry

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*Cryptogamic Botany*, 1992     The Athenaeum, 1858     **Applied Physiology, Nutrition, and Metabolism**, 2009     *U.S. News & World Report*, 1958-04

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web sep 27 2015 the martian is the brainchild of author andy weir who wrote the blockbuster novel that inspired the film as weir tells it he d always longed for some science fiction with greater

*andy weir author of the martian goodreads* - Apr 17 2023

web october 2013 edit data andy weir built a career as a software engineer until the success of his first published novel the martian allowed him to live out his dream of writing fulltime he is a lifelong space nerd and a devoted hobbyist of subjects such as relativistic physics orbital mechanics and the history of manned spaceflight