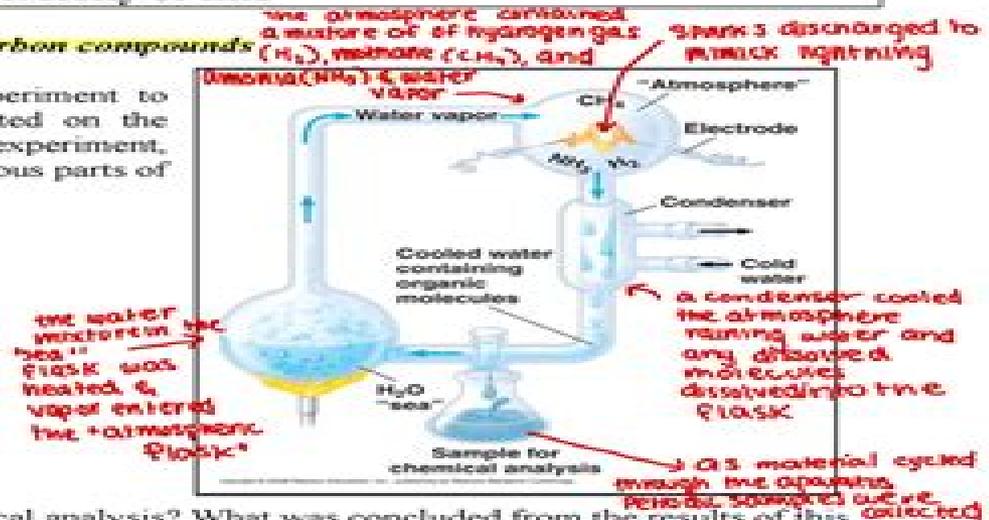


Name \_\_\_\_\_ Period \_\_\_\_\_

**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<sub>2</sub>O, CH<sub>4</sub> and 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 & hydrogen*  
*HYDROPHOBIC*

# Ap Bio Chapter 4reading Guide

**Liyong Dong**



**Ap Bio Chapter 4reading Guide:**

The book delves into Ap Bio Chapter 4reading Guide. Ap Bio Chapter 4reading Guide is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Ap Bio Chapter 4reading Guide, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Ap Bio Chapter 4reading Guide
- Chapter 2: Essential Elements of Ap Bio Chapter 4reading Guide
- Chapter 3: Ap Bio Chapter 4reading Guide in Everyday Life
- Chapter 4: Ap Bio Chapter 4reading Guide in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Ap Bio Chapter 4reading Guide. This chapter will explore what Ap Bio Chapter 4reading Guide is, why Ap Bio Chapter 4reading Guide is vital, and how to effectively learn about Ap Bio Chapter 4reading Guide.

3. In chapter 2, this book will delve into the foundational concepts of Ap Bio Chapter 4reading Guide. This chapter will elucidate the essential principles that need to be understood to grasp Ap Bio Chapter 4reading Guide in its entirety.

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5. In chapter 4, this book will scrutinize the relevance of Ap Bio Chapter 4reading Guide in specific contexts. This chapter will explore how Ap Bio Chapter 4reading Guide is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Ap Bio Chapter 4reading Guide. The final chapter will summarize the key points that have been discussed throughout the book.

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