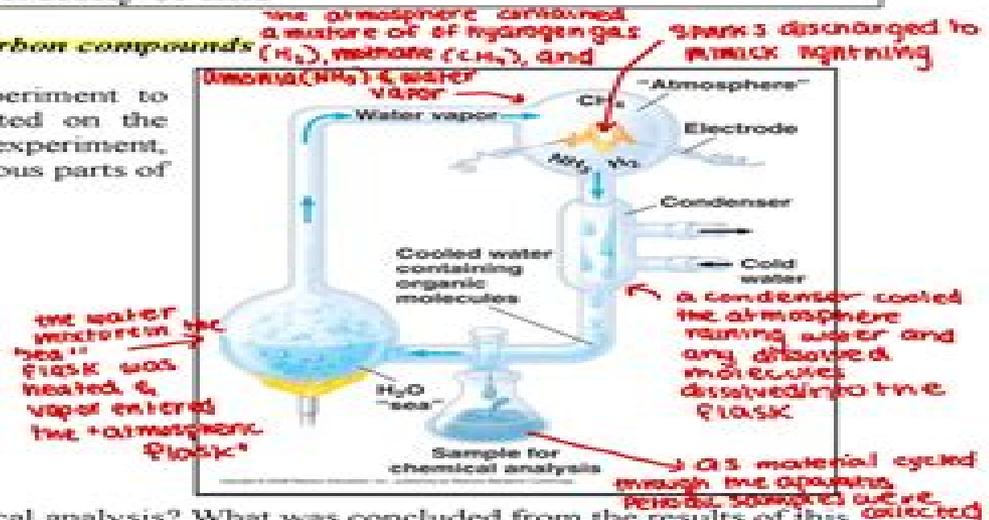


Name _____ Period _____

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, CH₂O, CH₄ 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

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A Starter Guide to College for Clueless Students & Parents Jake D. Seeger, 2019-01-05 For 8th graders freshmen and sophomores here s what to do now For juniors and seniors here are details about the tests the applications admissions factors financial aid essays interviews and college selection Checklists are provided for each year of high school A comprehensive checklist for the application for each college is provided It is a reference book for these many details for when you need them Use some chapters now and come back to other chapters later even in a year or more For 8th and 9th Graders get a great start on high school by seeing what to do your freshman and sophomore years so you re not behind in junior and senior years Which colleges are realistic Which are affordable Do not count any of them out yet Can you get a great degree without a huge debt Sure if you make the right choices These topics are covered How to get college ready and admissions ready Benefits of community colleges and public colleges Selective admissions factors and expectations Activities internships and sports Practice for standardized tests and subject tests Application checklists and procedures Financial aid and cost comparisons Meeting admissions officials and Essays and interviews After knowing more students and parents can better discuss and think about all these factors to decide if college is indeed the best option and what type of college is best The book explains the basics and moves into detailed information that you may not need right away but probably will use later It has handy reference pages containing checklists testing rules calendars admissions statistics college degree levels and websites to use so you don t have to look everything up yourself You don t have to remember everything now You can go back to the book again and again when you need the information For the maze of selective college applications admissions and choices the Starter Guide explains the basics and then provides a detailed analysis of the situation presents a detailed plan of action and points you to the some of the best sources for even more information to complete a serious run for the Ivies and the other top 50 to top 150 colleges But the great options of public colleges aren t neglected as the benefits of community colleges public honors colleges tuition discounts in nearby states affordable regional colleges and flagship universities are explained Finances and financial aid are covered with estimates of what to expect from both public and private colleges with examples for various household income levels Students and parents will find advice on how to meet admissions staff Learn how to build an impressive record based on what the colleges are looking for Students will find practical advice on how to make the best impression with their attire conversational interactions paperwork and correspondence Learn which questions to ask and how to best convey your story

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Resources in Education ,1985

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