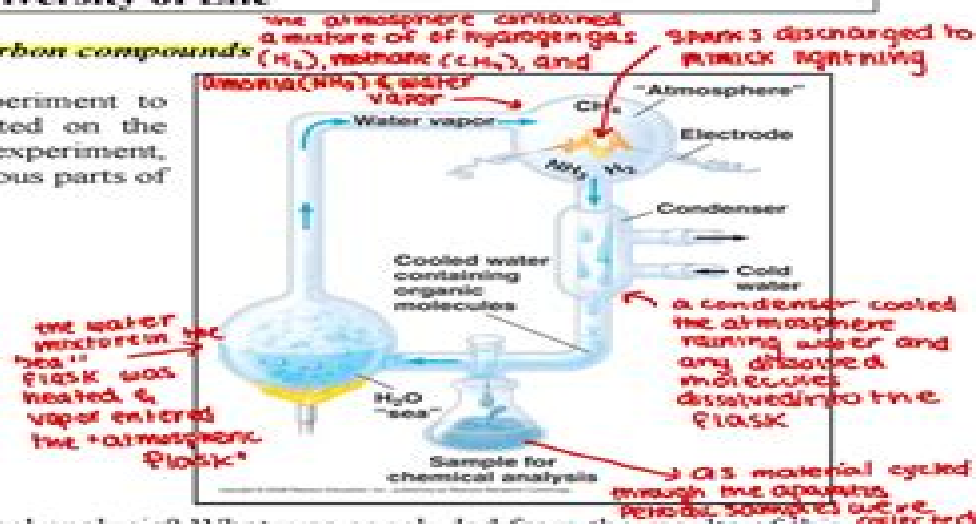


Name \_\_\_\_\_ Period \_\_\_\_\_

## 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 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*

# Guide To Readin Notes 29

**SJ Ball**



## Guide To Reading Notes 29:

Guide to Promotion for Officers in Subject "A" (regimental Duties) Reginald Francis Legge, 1908      *The Readers' Advisory Guide to Nonfiction* Neal Wyatt, 2007-05-14 Navigating what at she calls the extravagantly rich world of nonfiction renowned readers advisor RA Wyatt builds readers advisory bridges from fiction to compelling and increasingly popular nonfiction to encompass the library's entire collection She focuses on eight popular categories history true crime true adventure science memoir food cooking travel and sports Within each she explains the scope popularity style major authors and works and the subject's position in readers advisory interviews Wyatt addresses who is reading nonfiction and why while providing RAs with the tools and language to incorporate nonfiction into discussions that point readers to what to read next In easy to follow steps Wyatt Explains the hows and whys of offering fiction and nonfiction suggestions together Illustrates ways to get up to speed fast in nonfiction Shows how to lead readers to a variety of books using her read around and reading map strategies Provides tools to build nonfiction subject guides for the collection This hands on guide includes nonfiction bibliography key authors benchmark books with annotations and core collections It is destined to become the nonfiction bible for readers advisory and collection development helping librarians library workers and patrons select great reading from the entire library collection      **Manual of the Kehoe Stenographic Writer** William Joseph Kehoe, 1910      *The Handbook for Advertisers and Guide to Advertising*, 1854      The Doctor's PDA and Smartphone Handbook: A Guide to Handheld Healthcare Mohammad Al-Ubaydli, 2006-04-12 Handheld computers or PDAs are computers small enough to hold in your hand or fit into your pocket Smartphones are PDAs which also allow the user to make and receive phone calls For doctors PDAs are possibly the most clinically appropriate of all the computer devices created This is an essential guide for doctors wishing to maximise the potential of their PDA or smartphones and is the only book available to address the specific needs of doctors in relation to PDAs and smartphones The Doctor's PDA Smartphone Handbook is a step by step guide which introduces readers to the basics of PDAs Comprehensive in its approach and easily accessible to those with no technical knowledge the first few chapters demonstrate how the devices are used and how effective they can be in day to day clinical care and in training activities Communication and sharing data and clinical information is enhanced if the full team is equipped with PDAs and later chapters discuss more advanced uses and issues that should be considered if planning to equip the whole team The text is accompanied by invaluable teaching videos and vignettes illustrating how teaching points covered in each chapter can be applied to realistic scenarios      **The National Guard Magazine** Edward T. Miller, 1907      Guide to Official Letter Writing, Orders, Etc Adjutant, 1915      **The Reader's Guide in Economic, Social and Political Science** Richard Rogers Bowker, George Iles, 1891      **Doing Qualitative Research** David Silverman, Amir Marvasti, 2008-04-02 As a novice researcher and doctoral student myself I found this text basic resourceful and encouraging I now feel that my research journey has been segmented into individual steps that are both manageable and practical NACADA National

ACademic ADvising Association Chock full of useful pedagogy Doing Qualitative Research contains interdisciplinary and real world examples and student diaries that speak to those readers undertaking new research projects and qualitative dissertations Key Features Offers a thorough review of the major methods in qualitative research and data analysis techniques specific to each method Gives practical advice on key issues such as defining originality and narrowing down a topic Presents end of chapter accounts of current or former graduate students experiences with the topics covered in the respective chapters Contains web based exercises designed to help students and their instructors incorporate web based learning in their courses Includes exercises to test readers knowledge and to encourage the development of relevant skills Intended Audience This lively accessible textbook is ideal for upper level undergraduate and graduate students in the social sciences including those in sociology education communications anthropology and health departments Military Law Made Easy Stephen Thomas Banning,1908 **National Guard Magazine for the Troops of All States** ,1907 School Music Handbook Hannah Matthews Cundiff,Peter William Dykema,1923 Industrial & Mining Standard ,1929 Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office,1970 **Resources in Education** ,1999-10

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