

Biologically Important Molecules

AP Biology

OBJECTIVES: When you finish this activity, you will be able to

- **Explain** the connection between the sequence and the subcomponents of a biological polymer and its properties.
- **Refine representations and models** to explain how the subcomponents of a biological polymer and their sequence determine the properties of that polymer.
- **Use models to predict and justify** that changes in the subcomponents of a biological polymer affect the functionality of the molecule.
- **Construct** explanations based on evidence of how variation in molecular units provides cells with a wider range of functions.



Introduction

We have already seen in our study of biochemistry that the molecules that comprise living things are carbon-based, and that they are thought to have originated from inorganic molecules. It is thought that in living organisms, there are over 10,000 compounds that exist to help the organism function. These compounds belong to four major groups of biologically important molecules that perform four major functions in living things:

- Energy storage
- Cellular structure
- Cellular regulation and communication
- Information storage and transfer

But what do these molecules have in common? Are there detectable patterns that exist among groups of molecules in living organisms? How are these molecules assembled? We'll explore the answers to those questions in this activity.

Finding Patterns in Biologically Important Molecules

The molecules that make life possible are built off of carbon backbones, which act as scaffolds for the other atoms found in organic molecules--namely hydrogen, oxygen, nitrogen, phosphorus and sulfur. But these atoms are not usually found as solo atoms branched off of the carbon backbones. They are most often found as groups of atoms known as **functional groups**. These functional groups are clusters of atoms found

Biology 12 Biologically Important Molecules Study Guide

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Fritchman Thompson**



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Ssg- Human Biology 6E Student Study Guide Chiras,2008-02 Human Biology Sixth Edition provides students with a clear and concise introduction to the general concepts of mammalian biology and human structure and function With its unique focus on health and homeostasis Human Biology enhances students understanding of their own health needs and presents the scientific background necessary for students to think critically about biological information they encounter in the media The completely revised content and exceptional new art and photos provide students with a more user friendly text while excellent learning tools maximize comprehension of material Study Guide Central Hindu School Entrance Exam 2022 For Class 11 Arihant Experts,2022-03-05 1 Central Hindu School Entrance Test is a complete test guide 2 Covers entire syllabus for class 11th 3 Topically divided into 5 sections to provide better understanding 4 Solved papers and Model papers are given for thorough practice The book CHS SET has been carefully designed to cater the needs of students of class 11th Encrypted with Chapterwise notes and previous years questions this book divides the entire syllabus into 5 major subjects Each chapter has been well explained in details to ease the understanding of the concepts Besides the theory part this book focuses on practice part as well with latest solved papers to get the insights of the exam pattern and two model papers for self assessment Housed with exam relevant content this study guide boosts the preparation level and raises the confidence of a student to score better in their exam TOC Model Solved Paper 2021 Arts Commerce Group Model Solved Papers 2021 Maths Bio Group Solved paper 2019 Art Commerce Group Solved Papers 2019 Maths Group Solved paper 2019 Bio Group English Hindi Mathematics Physics Chemistry Biology General Studies **Cliffsnotes Praxis II Biology Content Knowledge (5235)** Glen Moulton,2015 This test prep guide for the Praxis II Biology Content Knowledge test includes subject review chapters of all test topics and 2 model practice tests to help you prepare for the test **Life Study Guide** David E. Sadava,Gordon H. Orians,Craig Heller,William K. Purves,2006-12-22 Especially helpful for AP Biology students each chapter of the study guide offers a variety of study and review tools The contents of each chapter are broken down into both a detailed review of the Important Concepts covered and a boiled down Big Picture snapshot The guide also covers study strategies common problem areas and provides a set of study questions both multiple choice and short answer *Cracking the SAT Biology E/M Subject Test, 2009-2010 Edition* Judene Wright,2009 2 full length practice test review of essential content subject quizzes and answer keys *Life: The Science of Biology Study Guide* William K. Purves,Edward Dzialowski,Lindsay Goodloe,Betty McGuire,Nancy Guild,Paula Mabee,2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes

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