

Biology Chapter 4 Book Notes

Section 1

- Nucleic acids are polymers, just as proteins are polymers
 - But instead of being assembled from amino acids, **nucleic acids** are made up of monomers called **nucleotides**.
- **3 components of a nucleotide:**
 - Phosphate group
 - 5-carbon sugar
 - Nitrogen containing base
 - **The phosphate group is bonded to the sugar molecule, which is bonded to the base**
- The sugar is the central component of the nucleotide
 - The five carbons in this sugar are labeled w/ numbers and prime symbols (') to provide a frame of reference
 - **Ex) the base is attached to the 1' carbon and the phosphate group is attached to the 5' carbon**
- Ribonucleotides are monomers of ribonucleic acid (RNA) and deoxyribonucleotides are the monomers of deoxyribonucleic acid (DNA)
 - Sugars: Ribose in ribonucleotides, deoxyribose in deoxyribonucleotides
 - **Deoxy- lacking in oxygen**
- Ribonucleotides and deoxyribonucleotides also differ in one of their nitrogenous bases
 - These bases belong to structural groups called **purines** and **pyrimidines**
 - Purines: adenine (A) and guanine (G)
 - Pyrimidines: cytosine (C), uracil (U), and thymine (T).
 - **Ribonucleotides use uracil (U), while deoxyribonucleotides use thymine (T).**
- Based on data from Stanley Miller and researchers who followed ([Chapter 2](#)), most biologists accept the idea that amino acids could have been synthesized early in Earth's history
 - Miller-like laboratory simulations have shown that nitrogenous bases and many different types of sugars, including ribose, can be synthesized readily under conditions that mimic the prebiotic soup
 - What they found was striking—the minerals preferentially bound to ribose, effectively enriching and concentrating ribose on their surface from a pool of diverse sugars
- Nucleotides polymerize via condensation reactions between the hydroxyl on the sugar component of one nucleotide and the phosphate group of another nucleotide
 - The reaction forms a new covalent bond between the nucleotides, and a molecule of water is released.
 - It's called a **phosphodiester linkage**, or a phosphodiester bond

Chapter 4ap Biology Notes

M Walker



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Learning and Understanding National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Committee on Programs for Advanced Study of Mathematics and Science in American High Schools, 2002-08-06 This book takes a fresh look at programs for advanced studies for high school students in the United States with a particular focus on the Advanced Placement and the International Baccalaureate programs and asks how advanced studies can be significantly improved in general It also examines two of the core issues surrounding these programs they can have a profound impact on other components of the education system and participation in the programs has become key to admission at selective institutions of higher education By looking at what could enhance the quality of high school advanced study programs as well as what precedes and comes after these programs this report provides teachers parents curriculum developers administrators college science and mathematics faculty and the educational research community with a detailed assessment that can be used to guide change within advanced study programs

Automatic Item Generation Mark J. Gierl, Thomas M. Haladyna, 2013 Automatic item generation AIG represents a relatively new and unique research area where specific cognitive and psychometric theories are applied to test construction practices for the purpose of producing test items using technology The purpose of this book is to bring researchers and practitioners up to date on the growing body of research on AIG by organizing in one volume what is currently known about this research area Part I begins with an overview of the concepts and topics necessary for understanding AIG by focusing on both its history and current applications Part II presents two theoretical frameworks and practical applications of these frameworks in the production of item generation Part III summarizes the psychological and substantive characteristics of generated items Part IV concludes with a discussion of the statistical models that can be used to estimate the item characteristics of generated items features one future application of AIG describes the current technologies used for AIG and also highlights the unresolved issues that must be addressed as AIG continues to mature as a research area Comprehensive The book provides a comprehensive analysis of both the theoretical concepts that define automatic item generation and the practical considerations required to implement these concepts Varied Applications Readers are provided with novel applications in diverse content areas e g science and reading comprehension that range across all educational levels elementary through university

Most Likely to Succeed Tony Wagner, Ted Dintersmith, 2015 From two leading experts in education and entrepreneurship an urgent call for the radical reimagining of American education so that we better equip students for the realities of the twenty first century economy Today more than ever we prize academic achievement pressuring our children to get into the right colleges have the highest GPAs and pursue advanced degrees But while students may graduate with credentials by and large they lack the competencies needed to be thoughtful engaged citizens and to get good jobs in our rapidly evolving economy Our school system was engineered a century ago to produce a work force for a world that no longer exists Alarminglly our methods of schooling

crush the creativity and initiative young people need to thrive in the twenty first century In *Most Likely to Succeed* bestselling author and education expert Tony Wagner and venture capitalist Ted Dintersmith call for a complete overhaul of the function and focus of American schools sharing insights and stories from the front lines including profiles of successful students teachers parents and business leaders *Most Likely to Succeed* presents a new vision of American education one that puts wonder creativity and initiative at the very heart of the learning process and prepares students for today s economy This book offers parents and educators a crucial guide to getting the best for their children and a roadmap for policymakers and opinion leaders

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Table of Contents Chapter 4ap Biology Notes

1. Understanding the eBook Chapter 4ap Biology Notes
 - The Rise of Digital Reading Chapter 4ap Biology Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 4ap Biology Notes
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chapter 4ap Biology Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 4ap Biology Notes
 - Personalized Recommendations
 - Chapter 4ap Biology Notes User Reviews and Ratings
 - Chapter 4ap Biology Notes and Bestseller Lists
5. Accessing Chapter 4ap Biology Notes Free and Paid eBooks
 - Chapter 4ap Biology Notes Public Domain eBooks
 - Chapter 4ap Biology Notes eBook Subscription Services
 - Chapter 4ap Biology Notes Budget-Friendly Options

6. Navigating Chapter 4ap Biology Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 4ap Biology Notes Compatibility with Devices
 - Chapter 4ap Biology Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 4ap Biology Notes
 - Highlighting and Note-Taking Chapter 4ap Biology Notes
 - Interactive Elements Chapter 4ap Biology Notes
8. Staying Engaged with Chapter 4ap Biology Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 4ap Biology Notes
9. Balancing eBooks and Physical Books Chapter 4ap Biology Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 4ap Biology Notes
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Chapter 4ap Biology Notes
 - Setting Reading Goals Chapter 4ap Biology Notes
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter 4ap Biology Notes
 - Fact-Checking eBook Content of Chapter 4ap Biology Notes
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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