

# 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

# Biology Chapter 4 Section 4 Review

**SA Dillow**



**Biology Chapter 4 Section 4 Review:**

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

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Biology Chapter 4 Section 4 Review
    - Chapter 2: Essential Elements of Biology Chapter 4 Section 4 Review
    - Chapter 3: Biology Chapter 4 Section 4 Review in Everyday Life
    - Chapter 4: Biology Chapter 4 Section 4 Review in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Biology Chapter 4 Section 4 Review. The first chapter will explore what Biology Chapter 4 Section 4 Review is, why Biology Chapter 4 Section 4 Review is vital, and how to effectively learn about Biology Chapter 4 Section 4 Review.
  3. In chapter 2, the author will delve into the foundational concepts of Biology Chapter 4 Section 4 Review. The second chapter will elucidate the essential principles that need to be understood to grasp Biology Chapter 4 Section 4 Review in its entirety.
  4. In chapter 3, this book will examine the practical applications of Biology Chapter 4 Section 4 Review in daily life. The third chapter will showcase real-world examples of how Biology Chapter 4 Section 4 Review can be effectively utilized in everyday scenarios.
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  6. In chapter 5, this book will draw a conclusion about Biology Chapter 4 Section 4 Review. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Biology Chapter 4 Section 4 Review.

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