

## Chapter 11 Study Guide Chem 117

### *1. Discovering the Concepts: Components of Nucleotides*

#### **11.1 Components of Nucleic Acids**

DNA-found in the nucleus of the cell, contain genetic information, has genomes which contain genes

Nucleic Acids: -Strings of molecules (nucleotides)

-Created from a set of four nucleotides

-Three basic components: nitrogenous base, five carbon sugar, phosphate functional group

### *2. Solving a Problem: Writing Condensation Products for Nucleotide Components*

-Nitrogen in the base (N1 of pyrimidines or N9 of purines) bonds to C1' of the pentose, forming a carbon to nitrogen glycosidic bond

- the (-H) and (-OH) removed from water, the product is a nucleoside

3. Distinguish the five nitrogenous bases found in nucleic acids as purine or pyrimidine.

Purines – adenine (a) and guanine (g)

Pyrimidines – thymine (t) and cytosine (c)

4. Identify the five nitrogenous bases found in nucleic acids by name.  
adenine (a), guanine (g), thymine (t), cytosine (c) and uracil (u)

5. Distinguish ribose and deoxyribose.

- To distinguish the carbons in the nitrogenous bases from the carbons in the sugar rings, a prime symbol is added to the numbering of the sugars.

6. Write condensation products for nucleoside and nucleotide formation.

A pentose and a nitrogenous base can join by condensation reaction when a nitrogen in the base bonds to C1 of the pentose, forming a carbon-to-nitrogen glycosidic bond. The -H and the -OH that are removed from water. The product of this reaction is called a **nucleoside**. The formation of a nucleoside is the first step in the synthesis of a nucleotide.

7. What is the “backbone” when talking about nucleic acids?  
The backbone is hydrogen phosphate group  $\text{HPO}_4(2-)$

#### **11.2 Nucleic Acid Formation**

# Chapter 11 Study Guide

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## **Table of Contents Chapter 11 Study Guide**

1. Understanding the eBook Chapter 11 Study Guide
  - The Rise of Digital Reading Chapter 11 Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 11 Study Guide
  - 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 11 Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 11 Study Guide
  - Personalized Recommendations
  - Chapter 11 Study Guide User Reviews and Ratings
  - Chapter 11 Study Guide and Bestseller Lists
5. Accessing Chapter 11 Study Guide Free and Paid eBooks
  - Chapter 11 Study Guide Public Domain eBooks
  - Chapter 11 Study Guide eBook Subscription Services
  - Chapter 11 Study Guide Budget-Friendly Options

6. Navigating Chapter 11 Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Chapter 11 Study Guide Compatibility with Devices
  - Chapter 11 Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Chapter 11 Study Guide
  - Highlighting and Note-Taking Chapter 11 Study Guide
  - Interactive Elements Chapter 11 Study Guide
8. Staying Engaged with Chapter 11 Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Chapter 11 Study Guide
9. Balancing eBooks and Physical Books Chapter 11 Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Chapter 11 Study Guide
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Chapter 11 Study Guide
  - Setting Reading Goals Chapter 11 Study Guide
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter 11 Study Guide
  - Fact-Checking eBook Content of Chapter 11 Study Guide
  - 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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