

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

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