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### **Section Structure Of Dna 8**

SECTION. 8.2. STRUCTURE OF DNA. Reinforcement. KEY CONCEPT. DNA structure is the same in all organisms. DNA is a chain of nucleotides. In DNA, each nucleotide is made of a phosphate group, a sugar called deoxyribose, and one of four nitrogen-containing bases. These four bases are cytosine (C), thymine (T), adenine (A), and guanine (G). Two of the bases, C and T,

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## **SECTION IDENTIFYING DNA AS THE GENETIC MATERIAL**

### **8.1 Study ...**

Section Structure Of Dna 8 SECTION. 8.2. STRUCTURE OF DNA. Reinforcement. KEY CONCEPT. DNA structure is the same in all organisms. DNA is a chain of nucleotides. In DNA, each nucleotide. is made of a phosphate group, a sugar called deoxyribose, and one of four nitrogen-containing bases. These four bases are cytosine

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Chapter 8 Section 2 STRUCTURE OF DNA. rule that describes how nucleotides form bonds in DNA; adenine (A) always bonds with thymine (T), and guanine (G) always bonds with cytosine (C). (p. 232) model that compares the structure of a DNA molecule, in which two strands wind around one another, to that of a twisted ladder. (p.

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## **Chapter 8 Section 2 STRUCTURE OF DNA Flashcards | Quizlet**

SECTION 8.2 STRUCTURE OF DNA Reinforcement KEY CONCEPT  
DNA structure is the same in all organisms. DNA is a chain of nucleotides. In DNA, each nucleotide is made of a phosphate group, a sugar called deoxyribose, and one of four nitrogen-containing bases. These four bases are cytosine (C), thymine (T), adenine (A), and guanine (G). Two of the bases, C and T,

## **SECTION STRUCTURE OF DNA 8.2 Reinforcement**

8 ins n ny. SECTION 8.2 STRUCTURE OF DNA Power Notes Parts of a DNA molecule Overall shape: Nitrogen- containing bases Backbone Pyrimidines Purines 1. 2. Base pairing rules: T A Bonding G 1. 2. Chargaff's rules: C A G C T Unit 3 Resource Book McDougal Littell Biology Power Notes 67

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## **SECTION STRUCTURE OF DNA 8.2 Power Notes**

The four bases in DNA are shown in FIGURE 8.4. Notice that the bases cytosine (C) and thymine (T) have a single-ring structure. Adenine (A) and guanine (G) have a larger, double-ring structure. The letter abbreviations refer both to the bases and to the nucleotides that contain the bases.

## **SECTION 8.2 Plan and Prepare 8.2 Structure of DNA**

DNA Structure. Watson and Crick proposed that DNA is made up of two strands that are twisted around each other to form a right-handed helix. The two DNA strands are antiparallel, such that the 3' end of one strand faces the 5' end of the other (Figure 6). The 3' end of each strand has a free hydroxyl group, while the 5' end of each strand has a free phosphate group.

## **Structure and Function of DNA | Microbiology**

The Structure of RNA. There is a second nucleic acid in all cells

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called ribonucleic acid, or RNA. Like DNA, RNA is a polymer of nucleotides. Each of the nucleotides in RNA is made up of a nitrogenous base, a five-carbon sugar, and a phosphate group.

### **9.1 The Structure of DNA - Concepts of Biology | OpenStax**

DNA structure, showing the nucleotide bases cytosine (C), thymine (T), adenine (A), and guanine (G) linked to a backbone of alternating phosphate (P) and deoxyribose sugar (S) groups. Two sugar-phosphate chains are paired through hydrogen bonds between A and T and between G and C, thus forming the twin-stranded double helix of the DNA molecule.

### **DNA | Discovery, Function, Facts, & Structure | Britannica**

Section 2: Structure of DNA. STUDY. Flashcards. Learn. Write. Spell. Test. PLAY. Match. Gravity. Created by. Alyssnicole PLUS. Chapter 8 Biology. Key Concepts: Terms in this set (38) How

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many types of nucleotides are present in DNA? 4. All nucleotides have two parts that are the same: the deoxyribose sugar and the \_\_\_\_\_. The third part ...

### **Section 2: Structure of DNA Flashcards | Quizlet**

8.2 Structure of DNA. KEY CONCEPT DNA structure is the same in all organisms. 8.2 Structure of DNA. DNA is composed of four types of nucleotides. • DNA is made up of a long chain of nucleotides. • Each nucleotide has three parts. - a phosphate group - a deoxyribose sugar - a nitrogen-containing base. phosphate group deoxyribose (sugar) nitrogen-containing base.

### **KEY CONCEPT DNA structure is the same in all organisms.**

Clearly describe the general structure of nucleic acids. Write one sentence that clearly illustrates the relationship between “nucleotide” and “nucleic acid”. Compare and contrast DNA and RNA. Distinguish between the 3' and 5' ends of a nucleic acid.

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## **Study Guide: DNA Structure | Biology I**

Study Guide B Chapter 8.2: Structure of DNA SECTION QUIZ 8.2: Structure of DNA Choose the letter of the best answer. \_\_\_\_\_

1. The four types of nucleotides that make up DNA are named for their a. hydrogen bonds. b. nitrogen-containing bases. c. phosphate groups. d. ring-shaped sugars. \_\_\_\_\_ 2. After examining the DNA of different organisms ...

## **Study Guide 8.2: Structure of DNA - Gather thesaurus**

SECTION 8.2 STRUCTURE OF DNA Study Guide KEY CONCEPT DNA structure is the same in all organisms. VOCABULARY nucleotide base pairing rules double helix MAIN IDEA: DNA is composed of four types of nucleotides. In the space below, draw a nucleotide and label its three parts using words and arrows. 1. How many types of nucleotides are present in DNA? 2.

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## **SECTION STRUCTURE OF DNA 8.2 Study Guide - Quia**

A DNA nucleotide is a unit made of a nitrogenous base, a 5-carbon sugar called deoxyribose, and a phosphate group. DNA has four kinds of nitrogenous bases: adenine, guanine, cytosine, and thymine. Solving the Structure of DNA Erwin Chargaff showed that the percentages of adenine and thymine are almost always equal in DNA.

## **Allegheny-Limestone Central School / Homepage**

NAME \_\_\_\_\_ DATE \_\_\_\_\_ PER \_\_\_\_\_ CHAPTER 8 STUDY GUIDE - FROM DNA TO PROTEINS 8.2 STRUCTURE OF DNA KEY CONCEPT: DNA STRUCTURE IS THE SAME IN ALL ORGANISMS. DNA is a chain of nucleotides. In DNA, each nucleotide is made of a phosphate group, a sugar called deoxyribose, and one of four nitrogen-containing bases.

**02 Study Guide 8 2\_8 3 ANSWERS - NAME DATE PER**

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## CHAPTER 8 ...

Blg IdEa DNA and RNA are the genetic material in all living things and provide the molecular basis for reproduction and development. 214 Unit 3: Genetics 8 8.1 Identifying dNa as the genetic Material 3F, 6A 8.2 Structure of dNa 3F, 6A, 6B data analysis INErprEtINg HlStOgraMS 2g 8.3 dNa replication 3E, 5A, 9C 8.4 transcription 4B, 6C, 9C

## CorrectionKey=A DO NOT EDIT--Changes must be made through ...

The following section of DNA codes for oxytocin, a polypeptide hormone. 3' -ACG-ATA-TAA-GTT-TTA-ACG-GGA-GAA-CCA-ACT-5'  
(a) Write the base sequence of the mRNA synthesized from this section of DNA. (b) Given the sequence of bases in part (a), write the primary structure of oxytocin.

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