

8.2 Structure of DNA

KEY CONCEPT DNA structure is the code of all organisms.

DNA is composed of four types of nucleotides.

Since the 1920s scientists have known the chemical parts of the DNA molecule. DNA is a very long polymer, or chain of repeating units. The units, or monomers, that make up DNA are called **nucleotides** (NOC-lee-oh-ee-oh). Each nucleotide has three parts: a phosphate group, a base, and a sugar.

There are four different types of DNA nucleotides: cytosine (C), thymine (T), adenine (A), and guanine (G). All of the nucleotides contain a phosphate group and a deoxyribose sugar. They differ in their nitrogen-containing bases, as shown in the table below.

Notice that thymine (T) and cytosine (C) have nitrogen-containing bases with a single-ring structure. Adenine (A) and guanine (G) are bases with a double-ring structure. A single molecule of human DNA is made of billions of nucleotides.

NUCLEOTIDE

The small units, or monomers, that make up a strand of DNA are called nucleotides. Nucleotides have three parts.



- phosphate group: one phosphate with four oxygens
- deoxyribose: ring deoxyribose
- nitrogen-containing base: a single or double ring built around nitrogen atoms and carbon atoms

THE FOUR NITROGEN-CONTAINING BASES OF DNA

Pyrimidines – Single Ring

Name of Base	Structural Formula	Model
Thymine		
Cytosine		

Purines – Double Ring

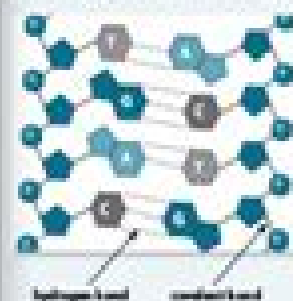
Name of Base	Structural Formula	Model
Adenine		
Guanine		



Circle the names of the four nucleotides shown in the table above.

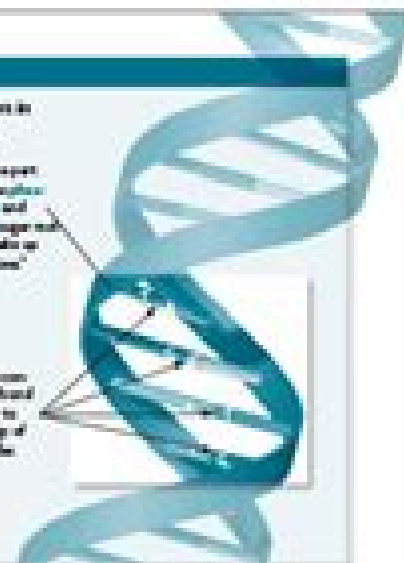
BASE PAIRING RULES

The base pairing rules describe how nucleotides form pairs in DNA. T always pairs with A, and C always pairs with G.



The phosphate group represents the phosphate group and deoxyribose sugar molecules that make up DNA's "backbone."

The nitrogen-containing bases are in the middle to form the rungs of the DNA ladder.



What sequence of bases would pair with GATCG?

8.2 Vocabulary Check

Mark It Up

nucleotide
base pairing rules

base pairing rules

Go back and highlight each sentence that has a vocabulary word in bold.



Label the drawing at the right with the terms nucleotide, base pairing rules, and double helix. Write each term and draw a line that connects the term to the appropriate part of the drawing.

8.2 The Big Picture

What are the three different parts of a nucleotide? _____

What are the names of the four nucleotides? _____

Use the base pairing rules to write the sequence that would pair with the following sequence: TCACGTA _____



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1. Understanding the eBook Holt Biology Gene Technology Test Prep
 - The Rise of Digital Reading Holt Biology Gene Technology Test Prep
 - Advantages of eBooks Over Traditional Books
2. Identifying Holt Biology Gene Technology Test Prep
 - 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 Holt Biology Gene Technology Test Prep
 - User-Friendly Interface
4. Exploring eBook Recommendations from Holt Biology Gene Technology Test Prep
 - Personalized Recommendations
 - Holt Biology Gene Technology Test Prep User Reviews and Ratings
 - Holt Biology Gene Technology Test Prep and Bestseller Lists
5. Accessing Holt Biology Gene Technology Test Prep Free and Paid eBooks
 - Holt Biology Gene Technology Test Prep Public Domain eBooks
 - Holt Biology Gene Technology Test Prep eBook Subscription Services
 - Holt Biology Gene Technology Test Prep Budget-Friendly Options
6. Navigating Holt Biology Gene Technology Test Prep eBook Formats

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

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