

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.

THE FOUR NITROGEN-CONTAINING BASES OF DNA

PYRIMIDINES – SINGLE RING			PURINES – DOUBLE RING		
Name of Base	Structural Formula	Model	Name of Base	Structural Formula	Model
thymine			adenine		
cytosine			guanine		



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

SMALL DNA

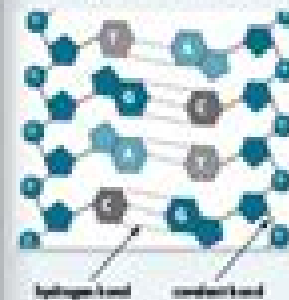
The small units, or monomers, that make up a strand of DNA are called **nucleotides**. Nucleotides have three parts.



- phosphate groups are phosphorus with four oxygens
- deoxyribose ring shape
- nitrogen-containing base is a single- or double-ring built around nitrogen atoms and carbon atoms

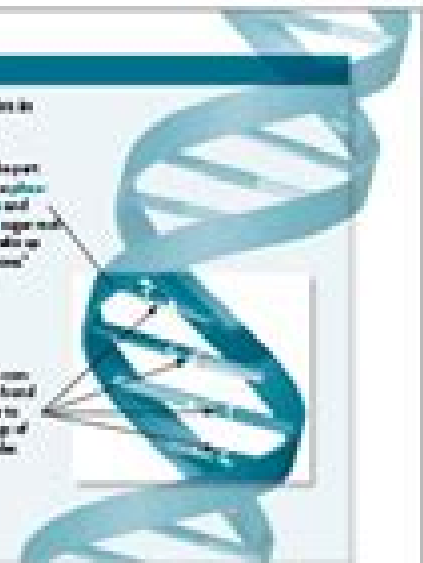
BASE PAIRING RULES

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



The blue line part represents the phosphate groups and deoxyribose sugar molecules that make up DNA's "backbone"

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



What sequence of bases would pair with GTACGT?

8.2 Vocabulary Check

Mark It Up

nucleotide
base pairs

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: TCACGT. _____



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Table of Contents Holt Biology Worksheets Chapter 15

1. Understanding the eBook Holt Biology Worksheets Chapter 15
 - The Rise of Digital Reading Holt Biology Worksheets Chapter 15
 - Advantages of eBooks Over Traditional Books
2. Identifying Holt Biology Worksheets Chapter 15
 - 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 Worksheets Chapter 15
 - User-Friendly Interface
4. Exploring eBook Recommendations from Holt Biology Worksheets Chapter 15

- Personalized Recommendations
- Holt Biology Worksheets Chapter 15 User Reviews and Ratings
- Holt Biology Worksheets Chapter 15 and Bestseller Lists
- 5. Accessing Holt Biology Worksheets Chapter 15 Free and Paid eBooks
 - Holt Biology Worksheets Chapter 15 Public Domain eBooks
 - Holt Biology Worksheets Chapter 15 eBook Subscription Services
 - Holt Biology Worksheets Chapter 15 Budget-Friendly Options
- 6. Navigating Holt Biology Worksheets Chapter 15 eBook Formats
 - ePub, PDF, MOBI, and More
 - Holt Biology Worksheets Chapter 15 Compatibility with Devices
 - Holt Biology Worksheets Chapter 15 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Holt Biology Worksheets Chapter 15
 - Highlighting and Note-Taking Holt Biology Worksheets Chapter 15
 - Interactive Elements Holt Biology Worksheets Chapter 15
- 8. Staying Engaged with Holt Biology Worksheets Chapter 15
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Holt Biology Worksheets Chapter 15
- 9. Balancing eBooks and Physical Books Holt Biology Worksheets Chapter 15
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Holt Biology Worksheets Chapter 15
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Holt Biology Worksheets Chapter 15
 - Setting Reading Goals Holt Biology Worksheets Chapter 15
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Holt Biology Worksheets Chapter 15

- Fact-Checking eBook Content of Holt Biology Worksheets Chapter 15
 - 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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