

## 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.

#### NUCLEOTIDE

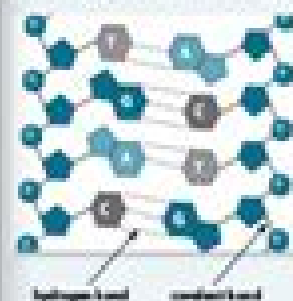
The small units, or monomers, that make up a strand of DNA are called nucleotides. Nucleotides have three parts.



- phosphate groups are phosphorus with four oxygens
- deoxyriboses ring shape
- nitrogens containing bases a single or double ring both around nitrogen atoms and carbon atoms

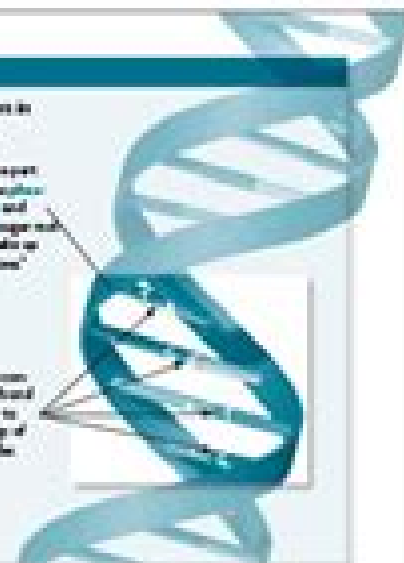
#### BASE PAIRING RULES

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 deoxyriboses sugar molecules that make up DNA's "backbone"

The nitrogenous bases/hydrogen 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: TCACGTA \_\_\_\_\_



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**EW Minium**



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