

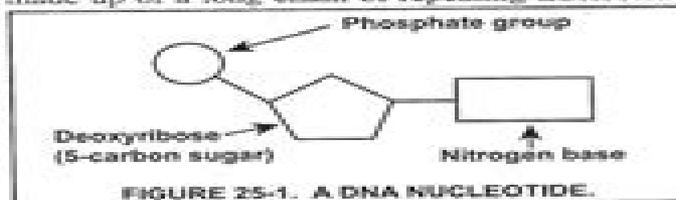
Chapter 25: Modern Genetics

A. CHEMICAL BASIS FOR GENETICS. It wasn't until modern times that scientists began to understand the chemical makeup of genes and chromosomes. In the 1940's and 1950's experiments showed that genes, the basic units of heredity, are made up of the chemical compound **DNA (deoxyribonucleic acid)**. DNA is a large complex molecule found in high concentrations in the nucleus of the cell. It is responsible for passing genetic information from generation to generation. DNA also controls the manufacture of enzymes. Enzymes control cellular activity.

REVIEW QUESTIONS

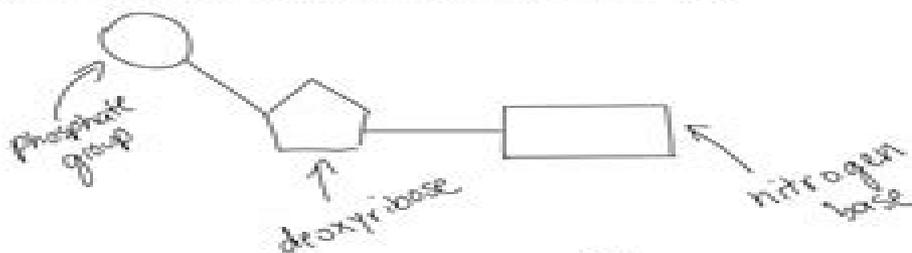
- Genes are composed of a chemical compound called DNA (deoxyribonucleic acid).
- Name two processes for which DNA is responsible. Passing genetic information from generation to generation and it controls the manufacture of enzymes

B. NUCLEOTIDES. The DNA molecule is made up of a long chain of repeating nucleotide units. Nucleotides contain nitrogenous bases, a sugar, and a phosphate group. The four different nitrogenous bases in DNA nucleotides are **adenine, guanine, cytosine, and thymine**. The sugar in DNA is **deoxyribose**, a 5-carbon sugar. The **phosphate group** contains phosphorus and oxygen. Figure 25-1 is a model (representation) of a typical DNA nucleotide.



REVIEW QUESTIONS

- The DNA molecule is a long chain of units known as nucleotides.
- The four different nitrogenous bases in DNA nucleotides are adenine, guanine, cytosine, and thymine
- In the space below draw and label a DNA nucleotide.



Chapter 25 Modern Genetics

**Arthur P. Mange, Elaine Johansen
Mange**



Chapter 25 Modern Genetics:

The Top Books of the Year Chapter 25 Modern Genetics The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Chapter 25 Modern Genetics : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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