

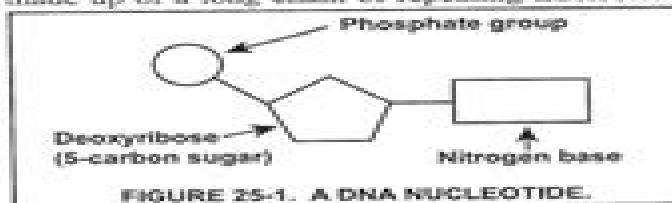
Chapter 25: Modern Genetics

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

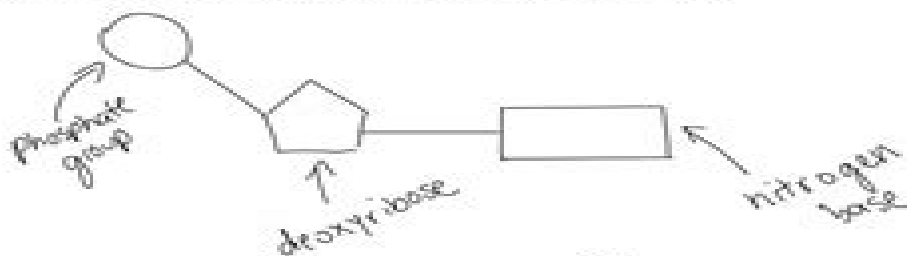
- Genes are composed of a chemical compound called DNA (deoxyribonucleic acid).
- Name two processes for which DNA is responsible. Passing genetic information from generation to generation and it controls the manufacture of enzymes

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

Shasha Hu



Chapter 25 Modern Genetics:

Chapter 25 Modern Genetics Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Chapter 25 Modern Genetics**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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