

## 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

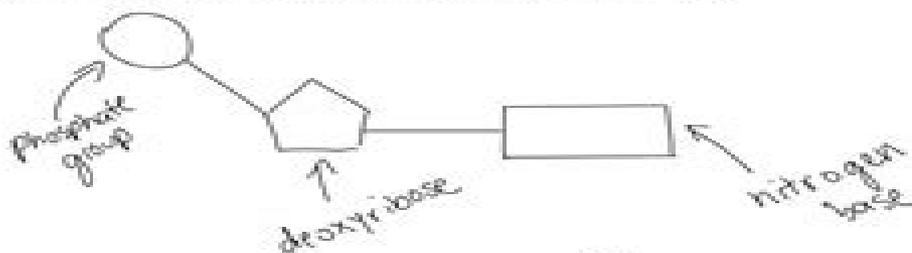
1. Genes are composed of a chemical compound called DNA (deoxyribonucleic acid)
2. Name two processes for which DNA is responsible. Passing genetic information from generation to generation and it controls the manufacture of enzymes

**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

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



# Chapter 25 Modern Genetics

**ML Yell**



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