

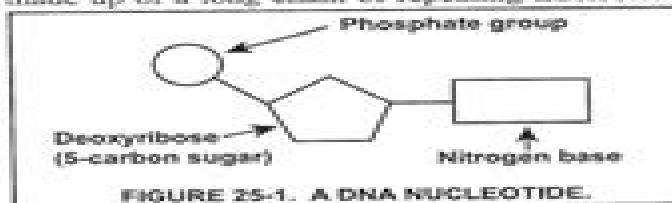
Chapter 25: Modern Genetics

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

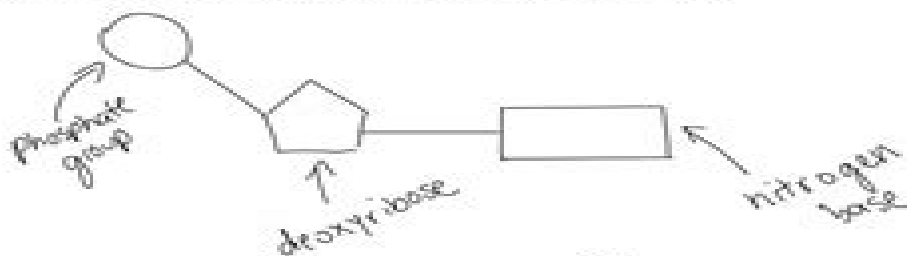
1. Genes are composed of a chemical compound called DNA (deoxyribonucleic acid)
2. Name two processes for which DNA is responsible. Passing genetic information from generation to generation and it controls the manufacture of enzymes

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

Brendan G. Carr



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Table of Contents Chapter 25 Modern Genetics

1. Understanding the eBook Chapter 25 Modern Genetics
 - The Rise of Digital Reading Chapter 25 Modern Genetics
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 25 Modern Genetics
 - 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 Chapter 25 Modern Genetics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 25 Modern Genetics
 - Personalized Recommendations
 - Chapter 25 Modern Genetics User Reviews and Ratings
 - Chapter 25 Modern Genetics and Bestseller Lists
5. Accessing Chapter 25 Modern Genetics Free and Paid eBooks
 - Chapter 25 Modern Genetics Public Domain eBooks

- Chapter 25 Modern Genetics eBook Subscription Services
- Chapter 25 Modern Genetics Budget-Friendly Options
- 6. Navigating Chapter 25 Modern Genetics eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 25 Modern Genetics Compatibility with Devices
 - Chapter 25 Modern Genetics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 25 Modern Genetics
 - Highlighting and Note-Taking Chapter 25 Modern Genetics
 - Interactive Elements Chapter 25 Modern Genetics
- 8. Staying Engaged with Chapter 25 Modern Genetics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 25 Modern Genetics
- 9. Balancing eBooks and Physical Books Chapter 25 Modern Genetics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 25 Modern Genetics
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 25 Modern Genetics
 - Setting Reading Goals Chapter 25 Modern Genetics
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 25 Modern Genetics
 - Fact-Checking eBook Content of Chapter 25 Modern Genetics
 - 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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