

DNA Structure and Replication

How is genetic information stored and copied?

Why?

Deoxyribonucleic acid or **DNA** is the molecule of heredity. It contains the genetic blueprint for life. For organisms to grow and repair damaged cells, each cell must be capable of accurately copying itself. So how does the structure of DNA allow it to copy itself so accurately?

Model 1 – The Structure of DNA



1. Refer to the diagram in Model 1.

a. What are the three parts of a nucleotide?

Deoxyribose sugar, Phosphate, Nitrogen-containing base.

b. What kind of sugar is found in a nucleotide?

Deoxyribose

c. Which nucleotide component contains nitrogen?

bases (A,T,G,C)

d. Name the four nitrogen bases shown in Model 1.

Adenine, Thymine, Guanine, Cytosine

2. DNA is often drawn in a "ladder model." Locate this drawing in Model 1.

a. Circle a single nucleotide on each side of the ladder model of DNA.

Dna Structure And Replication Answer Key

J Ma



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Biochemistry Pamela C. Champe, Richard A. Harvey, Denise R. Ferrier, 2005 Lippincott's Illustrated Reviews Biochemistry has been the best selling medical level biochemistry review book on the market for the past ten years. The book is beautifully designed and executed and renders the study of biochemistry enormously appealing to medical students and various allied health students. It has over 125 USMLE style questions with answers and explanations as well as over 500 carefully crafted illustrations. The Third Edition includes end of chapter summaries, illustrated case studies and summaries of key diseases.

Master the PCAT Peterson's, 2012-07-15 Peterson's Master the PCAT is an in depth review that offers thorough preparation for the computer based exam. After learning about the structure, format, scoring and score reporting and the subtests and question types, you can take a diagnostic test to learn about your strengths and weaknesses. The next six parts of the eBook are focused on detailed subject reviews for each subtest: verbal ability, reading comprehension, biology, chemistry, quantitative ability and writing. Each review includes practice questions with detailed answer explanations. You can take two practice tests to track your study progress. The tests also offer detailed answer explanations to further improve your knowledge and understanding of the tested subjects. The eBook concludes with an appendix that provides helpful information on a variety of careers in pharmacy and ten in depth career profiles.

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