

# Unit 5 - From DNA to Protein

Name: \_\_\_\_\_

Study Guide - use your notes and/or the PPTs to complete.

## DNA Structure & Function

1. DNA = molecule that contains a living thing's unique genetic code
2. Scientists credited with figuring out the structure of DNA: Chargaff, Franklin & Watson & Crick  
(developed the first model of DNA structure in 1953).
3. DNA is found inside ALL cells of ALL living organisms
4. Every single cell in our body contains a **COMPLETE** copy of DNA.  
Prokaryote cells = DNA is stored in the cell's cytoplasm  
Eukaryote cells = DNA is stored in the cell's nucleus

5. DNA is the "BLUEPRINT" for living organisms? - why is it called this?  
set of instructions

6. DNA consists of 2 long strands of nucleotides twisted together in a long spiral called a double helix

7. In your own words, describe how DNA is like a twisted ladder.  
2 strands twist in a double helix



Nitrogen bases ALWAYS pair

Adenine (A) always bonds with Thymine (T) in

the other strand  
Cytosine (C) always bonds with Guanine (G) in the other strand

8. The structure of DNA is the same in ALL living things; however, the order of base pairs is different and what determines the organism's traits

# Dna Structure And Function Study Guide Answers

**Bruce A. Chase, Peter J. Russell**



## **Dna Structure And Function Study Guide Answers:**

**AP Biology Study Guide** Sundar Nathan, 2009-11 Sundar Nathan received a Bachelor's degree in Electrical Engineering from Anna University Chennai India and a Masters degree in Biomedical Engineering from the University of Texas at Austin Working for over a year with a team of talented Phds MPhils and MScs from all over the world Sundar compiled this comprehensive study guide to help students prepare diligently understand the concepts and Crush the AP Bio Test **Life Study Guide** David E. Sadava, Gordon H. Orians, Craig Heller, William K. Purves, 2006-12-22 Especially helpful for AP Biology students each chapter of the study guide offers a variety of study and review tools The contents of each chapter are broken down into both a detailed review of the Important Concepts covered and a boiled down Big Picture snapshot The guide also covers study strategies common problem areas and provides a set of study questions both multiple choice and short answer

**Life: The Science of Biology Study Guide** William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR **Student Study Guide to Accompany Human Biology** Sylvia S. Mader, 2003-08 This best selling text emphasizes the relationship between humans and other living things Intended for an introductory course this text provides students with a firm grasp of how their bodies function and how the human population can become more fully integrated into the biosphere An Online Learning Center tied directly to the text via icons will direct students to activities or animations that gives a visual example of difficult processes as well as Working Together boxes to emphasize homeostasis **MCAT Biology MCQ (Multiple Choice Questions)** Arshad Iqbal, The MCAT Biology Multiple Choice Questions MCQ Quiz with Answers PDF MCAT Biology MCQ PDF Download Quiz Questions Chapter 1 27 Practice Tests with Answer Key Biology Questions Bank MCQs Notes includes revision guide for problem solving with hundreds of solved MCQs MCAT Biology MCQ with Answers PDF book covers basic concepts analytical and practical assessment tests MCAT Biology MCQ PDF book helps to practice test questions from exam prep notes The MCAT Biology MCQs with Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved MCQs MCAT Biology Multiple Choice Questions and Answers MCQs PDF Free download chapter 1 a book covers solved quiz questions and answers on chapters Amino acids analytical methods carbohydrates citric acid cycle DNA replication enzyme activity enzyme structure and function eukaryotic chromosome organization evolution fatty acids and proteins metabolism gene expression in prokaryotes

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