

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**

From Dna To Protein Biology Study Guide

Cybellium



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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 *Biology Terminology (Speedy Study Guides)* Speedy Publishing, 2015-01-29 A biology terminology study guide will help one understand the technical language used in any field related to biology It also allows one to understand the basic building blocks of the greek and latin used within all scientific fields This will help one understand even unfamiliar words within biology and any other related field of science **Human Anatomy and Physiology: A Study Guide** Cybellium, 2024-10-26 Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT AI Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you re a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey [www cybellium com](http://www.cybellium.com) *The Science of Genetics: A Study Guide* Cybellium, Welcome to the forefront of knowledge with Cybellium your trusted partner in mastering the cutting edge fields of IT Artificial Intelligence Cyber Security Business Economics and Science Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT AI Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you re a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey [www cybellium com](http://www.cybellium.com) **Class 8-12 Biology Questions and Answers PDF** Arshad Iqbal, The Class 8 12 Biology Quiz Questions and Answers PDF Biology Competitive Exam Questions Chapter 1 20 Practice Tests Grade

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