

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**

Section 8 2 Structure Of Dna Study Guide Answers

Daniel F McAuley



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