

Study Guide: DNA, RNA, and Proteins

1. What is the structure of DNA called? **Double Helix**
2. What is the relationship between DNA, genes & chromosomes?
Chromosomes are made of DNA, and Genes are small pieces of DNA.
3. Explain the contributions of the following scientists: Watson & Crick, & Rosalind Franklin.
 - a. **Watson & Crick- discovered the structure**
 - b. **Franklin- made the first picture.**
4. What are the complementary base pairs in DNA? Write the 1 letter symbol & spell them out.
 - a. **A-T; C-G**
5. What are the complementary base pairs in RNA? Write the 1 letter symbol & spell them out.
 - a. **A-U; C-G**
6. Use a chart to compare and contrast RNA and DNA in terms of structure, sugars, and bases.

	DNA	Both	RNA
Structure	2 strands	Made of Nucleotides	1 strand
Sugar	Deoxyribose		Ribose
Bases	A-T, C-G		A-U, C-G

7. List the three types of RNA and explain the function of each.
 - a. **mRNA: carries the DNA message from the nucleus to the cytoplasm (codon)**
 - b. **rRNA: combines with proteins to form the ribosome**
 - c. **tRNA: carries amino acids to the ribosome so that proteins can be made (anticodon)**
8. Who discovered the structure of DNA?
 - a. **Watson and Crick**
9. If a sequence of codons on a DNA strand is AAC TAG GGT, what is the corresponding sequence in a strand of mRNA? What tRNA sequence would pair up to this mRNA?
 - a. **mRNA: UUG AUC CCA tRNA: AAC UAG GGU**
10. What is the process by which a DNA molecule is copied?
Replication
11. Draw & label the 3 parts of a nucleotide.
 - a. **Sugar, nitrogenous bases, & phosphate group**

Chapter 1rna And Protein Synthesis Answers

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Chapter 1rna And Protein Synthesis Answers:

Whispering the Strategies of Language: An Psychological Quest through **Chapter 1rna And Protein Synthesis Answers**

In a digitally-driven earth wherever displays reign great and instant conversation drowns out the subtleties of language, the profound strategies and mental subtleties hidden within phrases frequently move unheard. However, nestled within the pages of **Chapter 1rna And Protein Synthesis Answers** a charming fictional value pulsating with natural emotions, lies a fantastic quest waiting to be undertaken. Published by a talented wordsmith, that marvelous opus attracts viewers on an introspective journey, delicately unraveling the veiled truths and profound impact resonating within the fabric of every word. Within the emotional depths of this emotional evaluation, we will embark upon a heartfelt exploration of the book is core themes, dissect their interesting publishing design, and yield to the strong resonance it evokes heavy within the recesses of readers hearts.

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