# Study Guide: DNA, RNA, and Proteins

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

- 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)
  - 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

# **Rna And Protein Synthesis Answers**

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