

# 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**

# Dna To Protein And Study Guide

**Allan Konopka, Thomas D. Brock**



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