

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 And Protein Synthesis Review Guide

Michael Hoelscher



Dna And Protein Synthesis Review Guide:

Study Guide and Solutions Manual for Seager/Slabaugh's Chemistry for Today Seager/Slabaugh, 2004 The fifth edition of the Study Guide and Student Solutions Manual has been updated to reflect all of the changes to the text This ancillary tests the student on the learning objectives in each chapter and provides answers to all of the even numbered end of chapter exercises New additional activities have been added to include a review of each section of the chapter and a section entitled Tying It All Together with a Laboratory Application Ebook: Chemistry: The Molecular Nature of Matter and Change Silberberg, 2015-01-16 Ebook Chemistry The Molecular Nature of Matter and Change DHHS Publication ,1980

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In a digitally-driven earth where monitors reign great and instant interaction drowns out the subtleties of language, the profound secrets and mental nuances concealed within phrases frequently go unheard. Yet, nestled within the pages of **Dna And Protein Synthesis Review Guide** a interesting literary prize sporting with fresh emotions, lies an extraordinary journey waiting to be undertaken. Published by a talented wordsmith, this marvelous opus attracts readers on an introspective journey, gently unraveling the veiled truths and profound influence resonating within the very fabric of each word. Within the mental depths of the moving review, we will embark upon a honest exploration of the book is core styles, dissect their charming publishing model, and succumb to the effective resonance it evokes heavy within the recesses of readers hearts.

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