

Study Guide: DNA, RNA, and Protein Synthesis

Use your notes and/or chapter 12 of the Biology textbook to complete the following questions and terms. To get full credit for this study guide, you must complete all parts.

Terms/Scientists: Use a separate sheet of paper for the terms. You may make flashcards or write a list.

DNA

DNA
deoxyribose
parts of a nucleotide
purine
pyrimidine
hydrogen bond
helicase
DNA polymerase

RNA

RNA
ribose
mRNA
rRNA
tRNA
ribosome
How is DNA different from RNA?

Protein Synthesis

protein synthesis
amino acid
codon
anticodon
transcription
translation
polypeptide
promoter

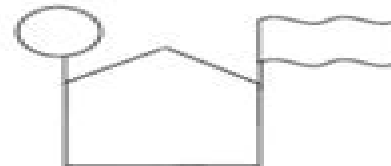
Scientists

Griffith
Avery/McCarty/MacLeod
Hershey & Chase
Rosalind Franklin
Watson & Crick
Chargaff

Label the Diagram: Follow the coloring scheme for each diagram below, then label the parts listed.

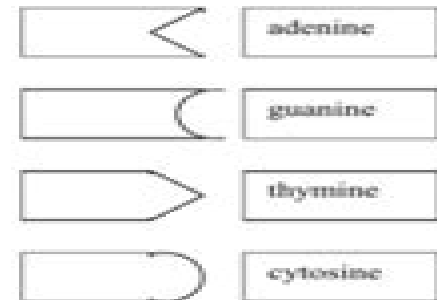
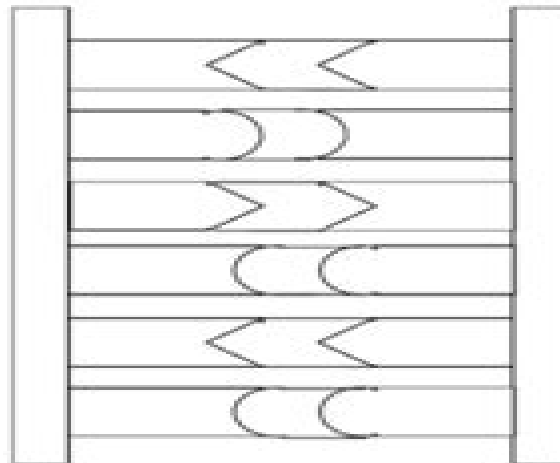
Nucleotide Structure

phosphate group – brown
five-carbon sugar – orange
nitrogen(ous) base – purple



DNA Structure

sugar-phosphate backbone – brown/orange
adenine – red
thymine – green
cytosine – blue
guanine – yellow
hydrogen bond – black



What kind of macromolecule is DNA, and what are its monomers?

What does the cell produce according to the coded directions in DNA?

Dna Rna And Protein Synthesis Study Guide

Jiyuan Zhang



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