

# Chapter 12 Test Study Guide: Molecular Genetics and DNA

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Format: MCQ, Labeling, Short Answers, Matching

## Chapter 12 Section 1 and 2: DNA Structure and Replication

[Powerpoint Link](#)

Vocabulary : [Quizlet](#)

- DNA: deoxyribonucleic acid, a self-replicating material present in nearly all living organisms . It is the carrier of genetic information.
- Watson and Crick: discovered the structure of DNA
- Roslind Franklin: Woman who generated x-ray images of DNA, she provided Watson and Crick with key data about DNA
- Erwin Chargoff: discovered that  $A=T$  and  $G=C$
- DNA-Structure: DNA is like a ladder on spiral staircase-The outside is made of a sugar-phosphate backbone with alternating sugars and phosphates and the inside "steps" are the nitrogenous bases.
- RNA: a single stranded nucleic acid
- Nucleotide: organic molecule made up of a nitrogenous base, pentose sugar and phosphate
- Nitrogen Base : Adenine, Thymine, Guanine, Cytosine
- Purine: a nitrogenous base that has a double-ring structure; either adenine or guanine
- Pyrimidine: a nitrogenous base that has only one ring structure. cytosine, thymine, uracil
- Monomer: DNA's monomer nucleotide; small organic molecules that make up polymers.

# Holt Biology Test 12 Study Guide

**G Psacharopoulos**



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