

# 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 Chargaff-discovered that A=T and G=C
- ☒ DNA Structure: DNA is like a ladder or 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.

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