

Name: _____

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Unit 4A: DNA Structure and Replication

Quiz Study Guide

Structure of DNA:

Be able to define and label a nucleotide.

The monomer of a nucleic acid- phosphate, sugar, base

Practice drawing a nucleotide in the box to the right.

- How can nucleotides differ? **4 dif. Nitrogenous bases**
- What do they have in common? **Sugar and phosphate**

Know the 4 different bases and their complementary base pairs.

Adenine, thymine cytosine, guanine

- A pairs with **T**; C pairs with **G**
- Which bases are pyrimidines (one ring base)? **Cytosine, thymine**
- Which bases are purines (two ring bases)? **Adenine, guanine**
- One strand of a DNA molecule has the following sequence: C C G T A T A C C G

What is the sequence of the complementary strand?



G G C A T A T G G C

Review DNA's structure and function. **DNA is a nucleic acid, made of nucleotides, that codes for proteins**

- What is a gene? **A section of the DNA that codes for a certain polypeptide/protein**

Covalent vs. hydrogen bonds: when are they used to build a DNA molecule?

Covalent bonds are strong and connect nucleotides into a strand. Hydrogen bonds are weak and connect two strands together between the nitrogenous bases.

Who were the scientists that played a major role in the discovery of DNA's structure?

- Erwin Chargaff- be familiar with his rule and how to apply it to a problem. **Amount of A= amount of T; amount of C= amount of G**
- Rosalind Franklin- **x-ray diffraction picture of DNA as a double helix**
- Watson and Crick- **created the first accurate model of DNA's structure with the aid of Chargaff and Franklins work.**

What is the Human Genome Project?

13 year project to sequence the entire human genome- all 3 billion base pairs

- What did it determine?

20,000-25,000 genes; only 2% of DNA is genes (codes for protein); couldn't cure all diseases

Forms of DNA:

Be able to differentiate between the different forms of DNA

- Prokaryotic DNA is **circular** loop.
- Eukaryotic DNA consists of multiple **linear/straight** strands, found in **2** forms.
 1. **Chromosomes**
 2. **Chromatin**

Answers For Study Guide Dna Quiz

Bruce A. Chase, Peter J. Russell



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