



6.2.1 Study: DNA Replication

Study Guide

Biology

Name: _____

Date: _____

Use this guide to take notes as you work through the activity. Taking good notes can help you remember important ideas. Your notes on this guide will help you prepare for quizzes and tests.

DNA Replication

1. Circle the word or phrase that correctly completes each sentence.

- The DNA contained in each of the cells that make up a multicellular organism, such as a giraffe, is all [**identical to**/different from] the DNA in the very first cell.
- DNA replication [**reduces/conserves**] genetic information as organisms grow and reproduce.

Structure and Function of DNA

2. Fill in the blanks to complete the sentences.

- Duplex DNA is twisted into a **double helix** and held together by **hydrogen** bonds.
- Each strand of DNA can be used as a template for a new strand because the nucleotide bases form complementary pairs: **adenine** always pairs with thymine, and **guanine** always pairs with cytosine.
- The two strands of a DNA molecule are **antiparallel**, so that the 3' end of one strand always meets with the 5' end of the other.
- During DNA replication, new nucleotides can be added only to the 3' end of a growing strand, so DNA strands always grow in the 5' to 3' direction.

An Overview of the Replication Process

Study Guide Heredity Dna And Protein Synthesis

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Singh, Subhash Jain, Mamta Mehrotra**

Study Guide Heredity Dna And Protein Synthesis:

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