



Name:

Date:

Student Exploration: Building DNA

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: double helix, DNA, enzyme, mutation, nitrogenous base, nucleoside, nucleotide, replication

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

DNA is an incredible molecule that forms the basis of life on Earth. DNA molecules contain instructions for building every living organism on Earth, from the tiniest bacterium to a massive blue whale. DNA also has the ability to **replicate**, or make copies of itself. This allows living things to grow and reproduce.

1. Look at the DNA molecule shown at right. What does it look like?

A double helix strand, and a spiral staircase. This shape is called a double helix.

This shape is called a **double helix**.

2. Based on this picture, how do you think a DNA molecule makes a copy of itself? (Hint: Look at the bottom two "rungs" of the ladder.)

The DNA strands separated the enzyme called DNA polymerase which copies each strand using the base-pairing rule.



Gizmo Warm-up

The *Building DNA* Gizmo allows you to construct a DNA molecule and go through the process of DNA replication. Examine the components that make up a DNA molecule.

1. What are the two DNA components shown in the Gizmo?

Nucleosides and Phosphates

2. A **nucleoside** has two parts: a pentagonal sugar (deoxyribose) and a **nitrogenous base** (in color). When a nucleoside is joined to a phosphate, it is called a **nucleotide**.



How many different nitrogenous bases do you see?

Four different nitrogenous bases

Gizmo Student Exploration Answer Key

H Kauffman



Gizmo Student Exploration Answer Key:

Embracing the Track of Term: An Psychological Symphony within **Gizmo Student Exploration Answer Key**

In a world consumed by displays and the ceaseless chatter of fast connection, the melodic beauty and psychological symphony developed by the published term usually fade into the backdrop, eclipsed by the constant noise and interruptions that permeate our lives. Nevertheless, situated within the pages of **Gizmo Student Exploration Answer Key** a marvelous literary value filled with raw emotions, lies an immersive symphony waiting to be embraced. Crafted by a masterful musician of language, this charming masterpiece conducts visitors on a psychological journey, well unraveling the hidden melodies and profound affect resonating within each cautiously crafted phrase. Within the depths of the poignant evaluation, we will explore the book is central harmonies, analyze its enthralling writing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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