



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.

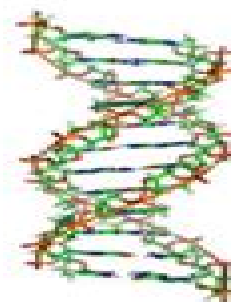
1. Look at the DNA molecule shown at right. What does it look like?

Its a ladder or spiral

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.)

It splits into 2 strands and then the missing pieces get filled in the with the corresponding Nucleoside.



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 Phosphate

2. A **nucleoside** has two parts: a 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

Note: The names of these nitrogenous bases are adenine (red), cytosine (yellow), guanine (blue), and thymine (green).

Building Dna Gizmo Exploration Guide Answers

Jiyuan Zhang



Building Dna Gizmo Exploration Guide Answers:

Enjoying the Tune of Appearance: An Mental Symphony within **Building Dna Gizmo Exploration Guide Answers**

In some sort of eaten by screens and the ceaseless chatter of instantaneous interaction, the melodic splendor and emotional symphony developed by the written word often diminish into the background, eclipsed by the persistent sound and distractions that permeate our lives. But, situated within the pages of **Building Dna Gizmo Exploration Guide Answers** a marvelous fictional value full of raw emotions, lies an immersive symphony waiting to be embraced. Crafted by an outstanding musician of language, that interesting masterpiece conducts viewers on an emotional journey, well unraveling the concealed tunes and profound impact resonating within each cautiously constructed phrase. Within the depths of the touching assessment, we will explore the book is key harmonies, analyze its enthralling publishing design, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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