



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.

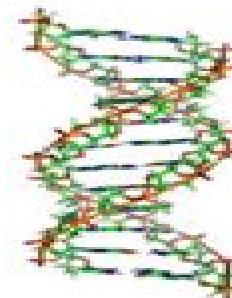
1. Look at the DNA molecule shown at right. What does it look like?

It's 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 Nucleotide.



### 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

**Oluwatosin Ademola Ijabadeniyi**

## **Building Dna Gizmo Exploration Guide Answers:**

Food Science and Technology Oluwatosin Ademola Ijabadeniyi, 2023-11-06 Food Science and Technology Fundamentals and Innovation presents the aspects of microbiology chemistry nutrition and process engineering required for the successful selection preservation processing packaging and distribution of quality food. It is a valuable resource for researchers and students in food science technology and food industry professionals and entrepreneurs. There are two new chapters in the 2nd Ed COVID 19 and food supply chain as well as climate smart food science

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