



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.

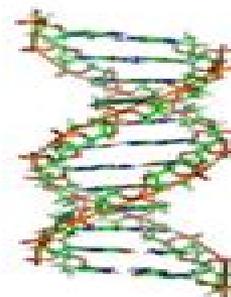
1. Look at the DNA molecule shown at right. What does it look like?

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).

# Gizmo Building Dna Answers

**Henry Robinson Luce**



**Gizmo Building Dna Answers:**

*New Scientist* ,2006    **New Scientist and Science Journal** ,2007    *Fortune* Henry Robinson Luce,2005    *The Prosecutor* ,1999

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