



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.

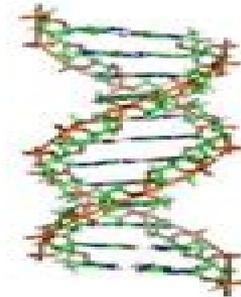
1. Look at the DNA molecule shown at right. What does it look like?

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.



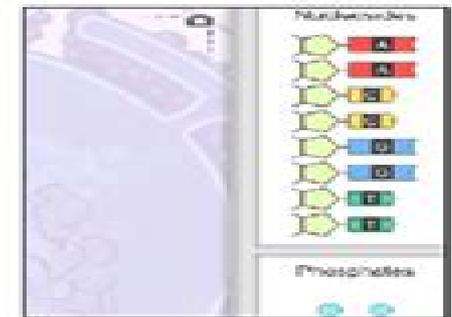
### Gizmo Warm-up

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 Building Dna Answer Key

**Wenbin Ji**



**Gizmo Student Exploration Building Dna Answer Key:**

This book delves into Gizmo Student Exploration Building Dna Answer Key. Gizmo Student Exploration Building Dna Answer Key is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Gizmo Student Exploration Building Dna Answer Key, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
  - Chapter 1: Introduction to Gizmo Student Exploration Building Dna Answer Key
  - Chapter 2: Essential Elements of Gizmo Student Exploration Building Dna Answer Key
  - Chapter 3: Gizmo Student Exploration Building Dna Answer Key in Everyday Life
  - Chapter 4: Gizmo Student Exploration Building Dna Answer Key in Specific Contexts
  - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Gizmo Student Exploration Building Dna Answer Key. This chapter will explore what Gizmo Student Exploration Building Dna Answer Key is, why Gizmo Student Exploration Building Dna Answer Key is vital, and how to effectively learn about Gizmo Student Exploration Building Dna Answer Key.
3. In chapter 2, the author will delve into the foundational concepts of Gizmo Student Exploration Building Dna Answer Key. The second chapter will elucidate the essential principles that must be understood to grasp Gizmo Student Exploration Building Dna Answer Key in its entirety.
4. In chapter 3, the author will examine the practical applications of Gizmo Student Exploration Building Dna Answer Key in daily life. The third chapter will showcase real-world examples of how Gizmo Student Exploration Building Dna Answer Key can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Gizmo Student Exploration Building Dna Answer Key in specific contexts. This chapter will explore how Gizmo Student Exploration Building Dna Answer Key is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Gizmo Student Exploration Building Dna Answer Key. The final chapter will summarize the key points that have been discussed throughout the book.  
The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Gizmo Student Exploration Building Dna Answer Key.

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