



## LAB: 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, DNA helicase, DNA polymerase, enzyme, mutation, nitrogenous base, 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 make copies of itself. This allows living things to grow and reproduce.

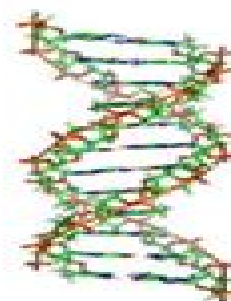
1. Look at the DNA molecule shown at right. What does it look like?

it looks like a spiral and or a twisted later

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 stranded and then the missing pieces get filled in with the corresponding nucleoside

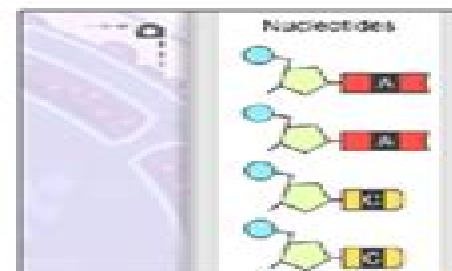


### Gizmo Warm-up

The *Building DNA* Gizmo allows you to construct a DNA molecule and go through the process of DNA replication.

1. Look on the right side of the Gizmo. What components make up a DNA molecule?

nucleoside and phosphate



2. A **nucleotide** consists of three parts: a phosphate group (blue circle), a sugar called deoxyribose (tan pentagon), and a **nitrogenous base** (shown in color).

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 Worksheet Answers

**G Orfield**

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the 'G Orfield' text.

## **Gizmo Building Dna Worksheet Answers:**

This book delves into Gizmo Building Dna Worksheet Answers. Gizmo Building Dna Worksheet Answers is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Gizmo Building Dna Worksheet Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Gizmo Building Dna Worksheet Answers
    - Chapter 2: Essential Elements of Gizmo Building Dna Worksheet Answers
    - Chapter 3: Gizmo Building Dna Worksheet Answers in Everyday Life
    - Chapter 4: Gizmo Building Dna Worksheet Answers in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Gizmo Building Dna Worksheet Answers. The first chapter will explore what Gizmo Building Dna Worksheet Answers is, why Gizmo Building Dna Worksheet Answers is vital, and how to effectively learn about Gizmo Building Dna Worksheet Answers.
  3. In chapter 2, the author will delve into the foundational concepts of Gizmo Building Dna Worksheet Answers. The second chapter will elucidate the essential principles that must be understood to grasp Gizmo Building Dna Worksheet Answers in its entirety.
  4. In chapter 3, the author will examine the practical applications of Gizmo Building Dna Worksheet Answers in daily life. The third chapter will showcase real-world examples of how Gizmo Building Dna Worksheet Answers can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Gizmo Building Dna Worksheet Answers in specific contexts. This chapter will explore how Gizmo Building Dna Worksheet Answers is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Gizmo Building Dna Worksheet Answers. This 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 Building Dna Worksheet Answers.

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