



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.

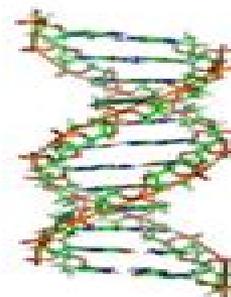
1. Look at the DNA molecule shown at right. What does it look like?

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:

The book delves into Gizmo Building Dna Answers. Gizmo Building Dna Answers is an essential 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 Building Dna 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 Answers
- Chapter 2: Essential Elements of Gizmo Building Dna Answers
- Chapter 3: Gizmo Building Dna Answers in Everyday Life
- Chapter 4: Gizmo Building Dna Answers in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Gizmo Building Dna Answers. This chapter will explore what Gizmo Building Dna Answers is, why Gizmo Building Dna Answers is vital, and how to effectively learn about Gizmo Building Dna Answers.

3. In chapter 2, this book will delve into the foundational concepts of Gizmo Building Dna Answers. This chapter will elucidate the essential principles that need to be understood to grasp Gizmo Building Dna Answers in its entirety.

4. In chapter 3, the author will examine the practical applications of Gizmo Building Dna Answers in daily life. This chapter will showcase real-world examples of how Gizmo Building Dna Answers can be effectively utilized in everyday scenarios.

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6. In chapter 5, this book will draw a conclusion about Gizmo Building Dna Answers. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Gizmo Building Dna Answers.

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