



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.

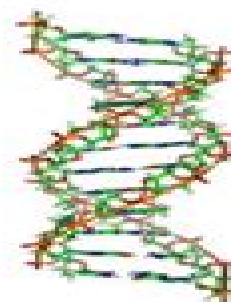
1. Look at the DNA molecule shown at right. What does it look like?

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).

Building Dna Gizmo Answers

Lei Huang

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

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Table of Contents Building Dna Gizmo Answers

1. Understanding the eBook Building Dna Gizmo Answers
 - The Rise of Digital Reading Building Dna Gizmo Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Building Dna Gizmo Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Building Dna Gizmo Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Building Dna Gizmo Answers
 - Personalized Recommendations
 - Building Dna Gizmo Answers User Reviews and Ratings
 - Building Dna Gizmo Answers and Bestseller Lists
5. Accessing Building Dna Gizmo Answers Free and Paid eBooks
 - Building Dna Gizmo Answers Public Domain eBooks
 - Building Dna Gizmo Answers eBook Subscription Services
 - Building Dna Gizmo Answers Budget-Friendly Options
6. Navigating Building Dna Gizmo Answers eBook Formats

- ePub, PDF, MOBI, and More
- Building Dna Gizmo Answers Compatibility with Devices
- Building Dna Gizmo Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Building Dna Gizmo Answers
 - Highlighting and Note-Taking Building Dna Gizmo Answers
 - Interactive Elements Building Dna Gizmo Answers
- 8. Staying Engaged with Building Dna Gizmo Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Building Dna Gizmo Answers
- 9. Balancing eBooks and Physical Books Building Dna Gizmo Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Building Dna Gizmo Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Building Dna Gizmo Answers
 - Setting Reading Goals Building Dna Gizmo Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Building Dna Gizmo Answers
 - Fact-Checking eBook Content of Building Dna Gizmo Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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