



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

Student Exploration Building Dna Gizmo Answers

JL Elias



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Table of Contents Student Exploration Building Dna Gizmo Answers

1. Understanding the eBook Student Exploration Building Dna Gizmo Answers
 - The Rise of Digital Reading Student Exploration Building Dna Gizmo Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Student Exploration 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 Student Exploration Building Dna Gizmo Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Student Exploration Building Dna Gizmo Answers
 - Personalized Recommendations
 - Student Exploration Building Dna Gizmo Answers User Reviews and Ratings
 - Student Exploration Building Dna Gizmo Answers and Bestseller Lists
5. Accessing Student Exploration Building Dna Gizmo Answers Free and Paid eBooks
 - Student Exploration Building Dna Gizmo Answers Public Domain eBooks
 - Student Exploration Building Dna Gizmo Answers eBook Subscription Services
 - Student Exploration Building Dna Gizmo Answers Budget-Friendly Options

6. Navigating Student Exploration Building Dna Gizmo Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Student Exploration Building Dna Gizmo Answers Compatibility with Devices
 - Student Exploration Building Dna Gizmo Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Student Exploration Building Dna Gizmo Answers
 - Highlighting and Note-Taking Student Exploration Building Dna Gizmo Answers
 - Interactive Elements Student Exploration Building Dna Gizmo Answers
8. Staying Engaged with Student Exploration Building Dna Gizmo Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Student Exploration Building Dna Gizmo Answers
9. Balancing eBooks and Physical Books Student Exploration Building Dna Gizmo Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Student Exploration Building Dna Gizmo Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Student Exploration Building Dna Gizmo Answers
 - Setting Reading Goals Student Exploration Building Dna Gizmo Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Student Exploration Building Dna Gizmo Answers
 - Fact-Checking eBook Content of Student Exploration 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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