



Name: **Megh**

Date: **3/17-3/18**

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.

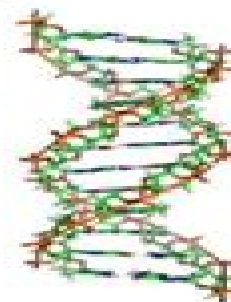
1. Look at the DNA molecule shown at right. What does it look like?

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

Answer Key Gizmo Building Dna

PT Brinkman

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

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Table of Contents Answer Key Gizmo Building Dna

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

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