



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.

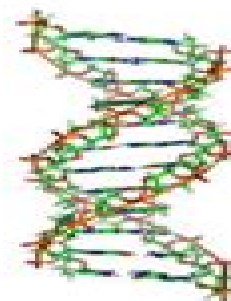
1. Look at the DNA molecule shown at right. What does it look like?

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 Worksheet

**Michael Rajnik**

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

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## **Table of Contents Building Dna Gizmo Worksheet**

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

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