



LAB: 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, DNA helicase, DNA polymerase, enzyme, mutation, nitrogenous base, 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 make copies of itself. This allows living things to grow and reproduce.

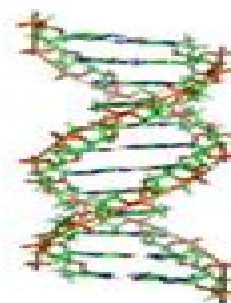
1. Look at the DNA molecule shown at right. What does it look like?

it looks like a spiral and or a twisted later

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 stranded and then the missing pieces get filled in with the corresponding nucleoside

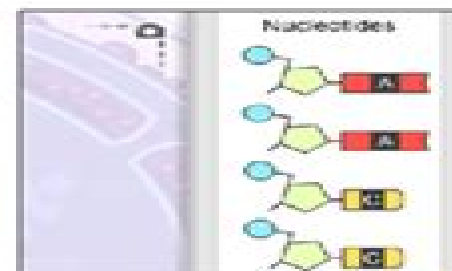


Gizmo Warm-up

The *Building DNA* Gizmo allows you to construct a DNA molecule and go through the process of DNA replication.

1. Look on the right side of the Gizmo. What components make up a DNA molecule?

nucleoside and phosphate



2. A **nucleotide** consists of three parts: a phosphate group (blue circle), a sugar called deoxyribose (tan pentagon), and a **nitrogenous base** (shown in color).

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 Worksheet Answers

Zhe Xu

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

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Table of Contents Gizmo Building Dna Worksheet Answers

1. Understanding the eBook Gizmo Building Dna Worksheet Answers
 - The Rise of Digital Reading Gizmo Building Dna Worksheet Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Gizmo Building Dna Worksheet 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 Gizmo Building Dna Worksheet Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gizmo Building Dna Worksheet Answers

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

- Fact-Checking eBook Content of Gizmo Building Dna Worksheet 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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