

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).

Manipulating Dna Answer Key

Michael Brown



Manipulating Dna Answer Key:

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Biology Joseph S. Levine, Kenneth R. Miller, 1998

Managing Technological Innovation Frederick Betz, 2011-02-22

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Metal--DNA Chemistry Thomas D. Tullius, 1989. The chemistry of metals is providing new insights into DNA chemistry, making it necessary for scientists in this emerging interdisciplinary research to be able to understand work in both fields. This new volume provides an examination of the application of metal chemistry to molecular biology as well as a review of recent research results. Its 11 chapters provide broad coverage of such topics as the development and use of metal complexes as tools in molecular biology, the involvement of metal ions in genetic regulation, and the importance of metal-based drugs in the treatment of cancer.

The Color of Love, 2003

The Positive Sum Strategy Nathan Rosenberg, Ralph Landau, 1986-01-01. This volume provides a state-of-the-art review of the relationship between technology and economic growth. Many of the 42 chapters discuss the political and corporate decisions for what one author calls a Competitiveness Policy. As contributor John A. Young states, "Technology is our strongest advantage in world competition. Yet we do not capitalize on our preeminent position, and other countries are rapidly closing the gap." This lively volume provides many fresh insights, including two unusually balanced and illuminating discussions of Japan. Science noted.

Microelectronics Monitor, 1995

Study Guide to Accompany Principles of Genetics, 3rd Edition D. Peter Snustad, Harold James Price, Michael J. Simmons, 2002-09-09. High quality illustrations with stepped-out art to help readers visualize complex processes. Human genetics and the role of the geneticist highlighted throughout. Two new features in each chapter: introductory Key Questions and closing Basic Exercises.

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