



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.

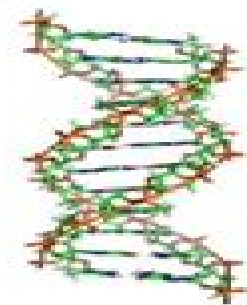
1. Look at the DNA molecule shown at right. What does it look like?

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 For Dna Gizmo

Wolfgang Guggemos

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.

Answer For Dna Gizmo:

God's Dna Decoded Henry B. Naiken, Beryl S. Confait, 2013-07 Dr Henry B Naiken has taught thousands of clients his unique and modern formulas for success He has emerged not only as an authority on success strategies but as someone who actually lives the personal and professional success he stipulates in his seminars Over the past 22 years he has delivered his innovative unique and powerful winning principles to enthusiastic audiences around the globe but this is the first time he has committed them to paper These proven principles for success promise to match the excitement and leverage the book *Think Grow Rich* did for Napoleon Hill Written in an easy to read style yet with direct commentary *God's DNA Decoded How to Be What You Were Really Meant to Be* is destined to become the new self improvement standard not only defining success for readers but helping them achieve it in their lives This book contains timeless principles used by successful men and women throughout history

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Business Week, 2000 *Dog Detectives* Kat Albrecht, 2007-11 Kat Albrecht is the acknowledged expert on training dogs to find lost pets dog detectives As the founder of the Missing Pet Partnership and Pet Hunters International she has devoted years to developing proven methods to train dogs to work as cat detection dogs and trailing dogs to search for a wide variety of companion animals The book presents detailed step by step reward based training methods as well as information on how to assess a dog's potential to be a dog detective and what you need to know as a prospective handler Whether you desire to perform this service professionally or as a hobby you can help people suffering

from the trauma associated with a lost pet **New Scientist** ,2007 **New Scientist and Science Journal** ,2007-10

Understanding Nanotechnology Editors of Scientific American,2002-12-02 Taken from the Greek nano means one billionth part of a whole or very very small Nanotechnology is the next step after miniaturization This book explores the cutting edge of a new technology that will find usage in almost every single aspect of modern society *The Seven Year Glitch* DT Mularkey,2024-12-09 You ll be dead by Sunday A week before the finale at Drake s Resort where obscenely wealthy gamblers bet their fortunes and their faces Ledger Warren a wealthy Virgin Islands resort owner receives a note announcing he ll be dead in days Equally distracting a gorgeous dead ringer for the love of his life mysteriously appears sending his paranoia skyrocketing while ripping open wounds of family betrayal With no family or close friends and a shady partner with an expiring contract Warren is suspicious of everyone Who is threatening him a resort guest an angry gambler who lost it all or an employee with an axe to grind Perhaps someone from his checkered past will strike before he flees his own private paradise Can he amass his biggest casino payoff evade being killed and escape his private island with his life

Reviewing **Answer For Dna Gizmo**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Answer For Dna Gizmo**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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