



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.

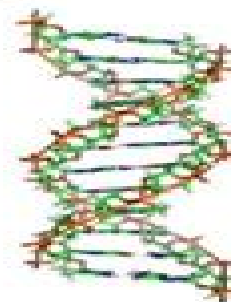
1. Look at the DNA molecule shown at right. What does it look like?

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

**DP Hallahan**

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

*How to Open Dna-Driven Genealogy Reporting & Interpreting Businesses* Anne Hart, 2007-04-02 Here's how to open your own online DNA driven genealogy reporting interpreting service business You wouldn't do the actual DNA testing The laboratory you contract with does the testing and sends you reports that you interpret for your clients As a DNA driven genealogist you would prepare illustrated and text driven reports colorful CDs brochures press kits covers Web sites and guides to interpreting the DNA for ancestry based information You would interpret tests for deep ancestry to your clients What verbal skills and any other preparation would you need to empower consumers with knowledge from reports you receive from your partnering DNA testing laboratory Would you also interpret reports from genetics counselors testing for predisposition to diseases Or emphasize only deep ancestry Would you need a self taught science background a genealogy hobby or only marketing and communications experience Who does the actual interpreting How would you contract with DNA laboratories to send reports and other information related to ancestry You may be a genealogist a personal historian or a life story videographer thinking of partnering with a DNA testing laboratory Your business would be to make complex information easy to understand and interpret in plain language DNA reports from scientists to genealogy clients and surname groups The DNA tests could be for ancestry and or nutritional genomics issues

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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

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