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

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

 A nucleoside has two parts: a pentagonal sugar (decxyribose) and a nitrogenous base (in color). When a nucleoside is joined to a phosphate, it is called a nucleotide. Nativatives

Nativ

How many different nitrogenous bases do you see?

Four different nitrogenous bases

# **Answer For Dna Gizmo**

Henry B. Naiken, Beryl S. Confait

#### **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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