

Name: Anthony Presil

Date: 11/19/14

Student Exploration: Building DNA

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

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

Note: The names of these nitrogenous bases are adenine (red), cytosine (yellow), guanine (blue), and thymine (green).

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DP Hallahan



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Cells, Teacher's Guide , *Science Teaching Reconsidered* Committee on Undergraduate Science Education, Board on Science Education, Division of Behavioral and Social Sciences and Education, National Research Council, 1997-03-26 Effective science teaching requires creativity imagination and innovation In light of concerns about American science literacy scientists and educators have struggled to teach this discipline more effectively *Science Teaching Reconsidered* provides undergraduate science educators with a path to understanding students accommodating their individual differences and helping them grasp the methods and the wonder of science What impact does teaching style have How do I plan a course curriculum How do I make lectures classes and laboratories more effective How can I tell what students are thinking Why don't they understand This handbook provides productive approaches to these and other questions Written by scientists who are also educators the handbook offers suggestions for having a greater impact in the classroom and provides resources for further research *Handbook of Research on Science Literacy Integration in Classroom Environments* Tai, Chih-Che, Moran, Renee M. R., Robertson, Laura, Keith, Karin, Hong, Huili, 2018-10-12 Secondary schools are continually faced with the task of preparing students for a world that is more connected advanced and globalized than ever before In order to adequately prepare students for their future educators must provide them with strong reading and writing skills as well as the ability to understand scientific concepts The *Handbook of Research on Science Literacy Integration in Classroom Environments* is a pivotal reference source that provides vital research on the importance of cross curriculum discipline connections in improving student understanding and education While highlighting topics such as curriculum integration online learning and instructional coaching this publication explores practices in teaching students how to analyze and interpret data as well as reading writing and speaking This book is ideally designed for teachers graduate level students academicians instructional designers administrators and education researchers seeking current research on science literacy adoption in contemporary classrooms *The Psychology of Inequity* Jean Lau Chin, Yolanda E. Garcia, Arthur W. Blume, 2022-06-17 Inequities still exist in today's society and this book advances awareness an equitable mindset and transformative change toward the goal of eliminating inequities and promoting inclusiveness and social justice Racialized inequity is injustice or unfairness and exists when prejudice or discrimination based on any aspect of difference precludes access of certain groups to the resources and benefits of society This volume takes a new look at the psychology of inequity today Have we progressed or regressed since the height of the civil rights movement of the 1960s Through an examination of the motivations and beliefs behind inequities and injustices this text aims to answer this question and any others that a scholar or general reader interested in social inequities and multiculturalism may have Chapters address the motives that sustain inequity and reflect on the beliefs and behaviors linked to implicit responses to threats of change and loss of privilege posed by the inclusion of others **AETS Yearbook** ,1979 *Social Innovations in Education, Environment, and*

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