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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.

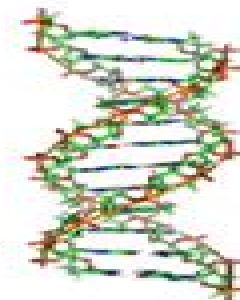
1. Look at the DNA molecule shown at right. What does it look like?

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.



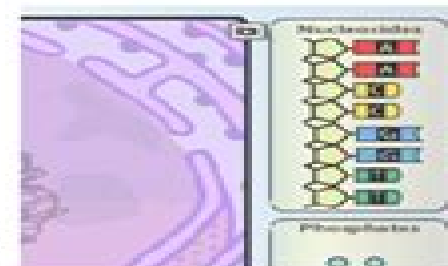
Gizmo Warm-up

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).

Answer Sheet Of Exploration Building Dna

**Mahlon B. Hoagland, Bert
Dodson, Judith Hauck**



Answer Sheet Of Exploration Building Dna:

Cutting-Edge Solutions for Advancing Sustainable Development: Exploring Technological Horizons for Sustainability - Part 1 Pawan Whig, Pavika Sharma, Nikihita Yathiraju, 2025-03-14 Cutting Edge Solutions for Advancing Sustainable Development Exploring Technological Horizons for Sustainability Part 1 explores the transformative role of emerging technologies in driving global sustainability This book highlights how artificial intelligence machine learning biotechnology digitization and smart city innovations contribute to tackling critical environmental and social challenges Spanning multiple industries the book examines AI powered solutions for cybersecurity and retail sustainable urban planning through IoT and data analytics green transportation advancements and the role of digital transformation in achieving sustainable progress Readers will gain valuable insights into pioneering innovations shaping a more sustainable future with case studies and real world applications Key Features In depth analysis of AI IoT biotech and digitalization for sustainability Practical case studies and real world applications Exploration of sustainability in smart cities transportation and cybersecurity Expert insights on integrating technology for a greener future **Spectrum Science, Grade 8** Spectrum, 2014-08-15 Eighth Grade Science Book for kids ages 13 14 Support your child s educational journey with Spectrum 8th Grade Science Workbook that teaches basic science skills to 8th grade students 8th Grade Workbooks are a great way for middle school students to learn essential science skills surrounding space life science Earth science science and technology and more through a variety of activities that are both fun AND educational Why You ll Love This Science Book Engaging and educational activities Black Holes Expained The Digital Revolution and The Orbiting Junkyard are a few of the fascinating lessons that help inspire learning into your child s curriculum Testing progress along the way Chapter reviews a mid test and a final test are included to test student knowledge An answer key is included in the back of the middle school book to track your child s progress along the way before moving on to new and exciting lessons Practically sized for every activity The 176 page 8th grade workbook is sized at about 8 1 2 inches x 10 1 2 inches giving your child plenty of space to complete each exercise About Spectrum For more than 20 years Spectrum has provided solutions for parents who want to help their children get ahead and for teachers who want their students to meet and exceed set learning goals providing workbooks that are a great resource for both homeschooling and classroom curriculum The 8th Grade Science Book Contains 7 chapters and bonus research extension activities Chapter reviews mid test a final test and an answer key Perfectly sized at about 8 1 2 x 10 1 2 **Exploring Immunology** Gordon MacPherson, Jon Austyn, 2013-03-01 This concise introductory textbook uses carefully chosen examples from clinical and experimental observations to provide an insight into the principles underlying the immune system As a result it encourages readers to ask critical questions in order to further advance our understanding of this unique organ Both authors are experienced lecturers and highly regarded researchers The book is professionally illustrated in four color throughout with beautiful artwork which by itself distinguish the title from any comparable title

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Origins Hank Kevin Ravel Zouho,2025-03-02 Are we the product of evolution divine creation or something beyond our understanding Exploring Origins Science Faith and the Pursuit of Truth bridges the gap between science and belief challenging conventional narratives This book takes readers on a fascinating journey through biology cosmology philosophy and theology examining the origins of life and the mysteries of existence Whether you re a skeptic a believer or simply curious this thought provoking exploration offers a fresh perspective on humanity s biggest questions Encyclopedia of DNA and the United States Criminal Justice System Louis J. Palmer, Jr.,2024-10-17 Forensic DNA analysis was first introduced to the American criminal justice system in the mid 1980s Since then DNA testing has become the leading forensic tool both for obtaining sexual assault criminal convictions and for establishing the innocence of criminal suspects and wrongfully convicted defendants This encyclopedia provides straightforward information on the role of DNA in the American courts Entries explain the relationship of forensic DNA analysis to microbiology population genetics statistics and the legal rules of the admissibility of scientific evidence Full texts preceded by summaries are presented of all the statutes created by the states and the federal government that address the forensic use of DNA analysis and the edited text of judicial case opinions that address specific DNA issues There are many entries on organizations that use DNA testing to free wrongly convicted defendants and on individuals who were released from prison many from death row after DNA tests proved their innocence

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