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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).

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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

The Science of Children's Wellbeing Duncan Gillard,Corinna Grindle,Nic Hooper,Freddy Jackson Brown,Russell Hancock,2023-12-12 This essential book is packed full of comprehensive guidelines and practical resources for running wellbeing intervention sessions for children aged 7 to 11 drawing from the scientifically grounded Six Ways to Wellbeing and the DNA V model Each chapter focuses on one of the Six Ways to Wellbeing six patterns of action known to correlate highly with aspects of positive mental health and wellbeing These principles have been translated into 36 step by step sessions to develop children s wellbeing and psychological flexibility and support those struggling with aspects of their mental health The sessions can be delivered by educators with the whole class with small groups as targeted wellbeing interventions or easily adapted to fit one to one contexts The Six Ways to Wellbeing sessions include Be Active Staying physically active and exercising regularly Self Care Engaging in good quality self care behaviours Connect with Others Connecting with others socially in ways that feel genuine authentic and fulfilling Give to Others Engaging in kind thoughtful and giving behaviours toward others and the wider world Challenge Yourself Encouraging learning that feels personally challenging to grow and develop new skills Embrace the Moment Taking notice of the world around you and embracing and appreciating the moment Easy to follow and requiring no previous training this book is the ideal resource for primary school teachers and leaders psychologists mental health practitioners school counsellors SENCos LSAs ELSAs and learning mentors looking to support and improve children s wellbeing within their professional roles

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Boutros,2015-07-02 The first book to comprehensively cover the field of systems genetics gathering contributions from leading scientists **Discovery** Ricki Lewis,2009-05-11 The goal of Discovery Science as a Window to the World is to relay the excitement of science by exploring selected topics in biology and medicine in a way that reveals the process of discovery Each chapter will focus on the curiosity and creativity that drives scientists to wonder observe question and experiment One impetus for this project is the recognition of a growing demand among instructors for a book that departs from fact stuffed textbooks and instead engages students in the discovery process at a personal level Emphasizes the process of discovery through interviews and key experiments Written by a best selling author Provides an in depth conversational look at the science behind several hot topics in biology Each chapter traces the beginnings of the field with stories of how serendipity and scientific inquiry intertwine Presents the background to a field by including the scientific literature so the reader does not have to do a literature search or plow through a review article Many essays introduce the work of overlooked scientists or unsung heroes Alexey Olovnikov telomeres Leroy Steven stem cells to name a few Also well known scientists are interviewed Stanley Miller Carl Woese John Gearhart and others The essays show how ideas interact and coalesce from different lines of research Highlights the role of the media in interpreting science for the public Bioinformatics and Biomarker Discovery Francisco Azuaje,2011-08-24 This book is designed to introduce biologists clinicians and computational researchers to fundamental data analysis principles techniques and tools for supporting the discovery of biomarkers and the implementation of diagnostic prognostic systems The focus of the book is on how fundamental statistical and data mining approaches can support biomarker discovery and evaluation emphasising applications based on different types of omic data The book also discusses design factors requirements and techniques for disease screening diagnostic and prognostic applications Readers are provided with the knowledge needed to assess the requirements computational approaches and outputs in disease biomarker research Commentaries from guest experts are also included containing detailed discussions of methodologies and applications based on specific types of omic data as well as their integration Covers the main range of data sources currently used for biomarker discovery Covers the main range of data sources currently used for biomarker discovery Puts emphasis on concepts design principles and methodologies that can be extended or tailored to more specific applications Offers principles and methods for assessing the bioinformatic biostatistic limitations strengths and challenges in biomarker discovery studies Discusses systems biology approaches and applications Includes expert chapter commentaries to further discuss relevance of techniques summarize biological clinical implications and provide alternative interpretations

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