

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Student Exploration: Building DNA **Answer Key**

**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.

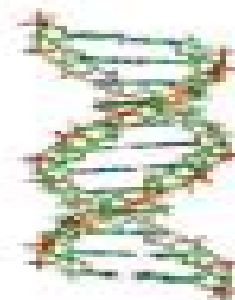
1. Look at the DNA molecule shown at right. What does it look like?

**Twisted ladder or spiral or 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.)

**Bases at the bottom split apart which eventually divides the DNA molecule into two strands. Each strand is a template for the formation of a new strand.**



### 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 (A, C, G, and T)**

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



# Where Are Explore Learning Gizmo Answer Key

**Urban, Michael J., Falvo, David A.**



## **Where Are Explore Learning Gizmo Answer Key:**

Teaching and Learning Online Franklin S. Allaire, Jennifer E. Killham, 2023-01-01 Science is unique among the disciplines since it is inherently hands on However the hands on nature of science instruction also makes it uniquely challenging when teaching in virtual environments How do we as science teachers deliver high quality experiences to secondary students in an online environment that leads to age grade level appropriate science content knowledge and literacy but also collaborative experiences in the inquiry process and the nature of science The expansion of online environments for education poses logistical and pedagogical challenges for early childhood and elementary science teachers and early learners Despite digital media becoming more available and ubiquitous and increases in online spaces for teaching and learning Killham et al 2014 Wong et al 2018 PreK 12 teachers consistently report feeling underprepared or overwhelmed by online learning environments Molnar et al 2021 Seaman et al 2018 This is coupled with persistent challenges related to elementary teachers lack of confidence and low science teaching self efficacy Brigido Borrachero Bermejo Gunning Duran Duran 2004 Ideal for undergraduate teacher candidates graduate students teacher educators classroom teachers parents and administrators this book addresses why and how teachers use online environments to teach science content and work with elementary students through a research based foundation *Distance Learning for Elementary STEM* Amanda Thomas (Math professor), 2020 This practical guide outlines a vision for online and distance STEM learning at the elementary level with creative activities based on eight STEM themes Online and distance learning may sound fairly straightforward Instead of learning in a classroom setting students learn at home with the assistance of online resources But classroom learning does not always translate easily to online settings particularly at the elementary level where children should be actively engaging in activities exploration and discussion For STEM subjects integration across subjects settings and play based versus traditional learning present opportunities for young learners to engage in age appropriate online and distance learning This book features eight creative integrated STEM lessons including ideas for designing a zoo learning to garden exploring the night sky and more Each lesson offers online traditional and hands on components with connections to the ISTE Standards and STEM standards across elementary grades Concluding with a model for designing online and distance STEM learning for elementary aged children this book will support teachers and parents in designing the types of resources and learning experiences they need for elementary students distance learning *100 Brain-Friendly Lessons for Unforgettable Teaching and Learning (9-12)* Marcia L. Tate, 2019-07-24 Use research and brain based teaching to engage students and maximize learning Lessons should be memorable and engaging When they are student achievement increases behavior problems decrease and teaching and learning are fun In 100 Brain Friendly Lessons for Unforgettable Teaching and Learning 9 12 best selling author and renowned educator and consultant Marcia Tate takes her bestselling Worksheets Don't Grow Dendrites one step further by providing teachers with ready to use lesson plans that take advantage of the way that students really learn Readers will find

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This collection presents research based interventions using existing knowledge to produce new pedagogies to teach evolution to learners more successfully whether in schools or elsewhere Success here is measured as cognitive gains as acceptance of evolution or an increased desire to continue to learn about it Aside from introductory and concluding chapters by the editors each chapter consists of a research based intervention intended to enable evolution to be taught successfully all these interventions have been researched and evaluated by the chapters authors and the findings are presented along with discussions of the implications The result is an important compendium of studies from around the world conducted both inside and outside of school The volume is unique and provides an essential reference point and platform for future work for the foreseeable future

### **Generative Systems and Intelligent Tutoring Systems** Sabine Graf,Angelos

Markos,2025-07-28 This book constitutes the refereed proceedings of the 21st International Conference on Intelligent Tutoring Systems ITS 2025 held in Alexandroupolis Greece during June 2 6 2025 The 21 full papers 27 short papers and 5 posters included in this book were carefully reviewed and selected from 67 submissions The papers are organized in the following topical conference tracks Part I Generative Tutoring Systems The goal of this part is to show how new techniques inspired by artificial intelligence AI and new methods in education can improve learning teaching and generate the capacity for knowledge acquisition and much more Part II Application areas environments and techniques for AI systems This part shows the progress of research investigating the different application areas such as education health techniques such as neural networks data mining natural language processing and environments such as games virtual reality cognitive robots for effective AI systems

*English and Literacies* Robyn Ewing,Siobhan O'Brien,Kathy Rushton,Lucy Stewart,Rachel

Burke,Deb Brosseuk,2022-02-18 English and Literacies introduces pre service teachers to the many facets of literacies and English education for primary students

Innovating Luis Perez-Breva,2018-08-28 Discover the MIT developed doer s

approach to innovation with this guide that reveals you don t need an earth shattering idea to create a standout product service or business just a hunch that you can scale up to impact Innovation is the subject of countless books and courses but there s very little out there about how you actually innovate Innovation and entrepreneurship are not one and the same although aspiring innovators often think of them that way They are told to get an idea and a team and to build a show and tell for potential investors In Innovating Luis Perez Breva describes another approach a doer s approach developed over a decade at MIT and internationally in workshops classes and companies He shows that innovating doesn t require an earth shattering idea all it takes is a hunch Anyone can do it By prototyping a problem and learning by being wrong innovating can be scaled up to make an impact As Perez Breva demonstrates nothing is new at the outset of what we only later celebrate as innovation In Innovating the process illustrated by unique and dynamic artwork is shown to be empirical experimental nonlinear and incremental You give your hunch the structure of a problem Anything can be a part Your innovating accrues other people s knowledge and skills Perez Breva describes how to create a kit for innovating and outlines questions that will help you think

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**Studying Programming** Sally Fincher,2006-02-13 We ve written this book to support students in studying programming It is not a text to teach any particular programming language but to be used alongside such a book or in conjunction with a taught course In Studying Programming we concentrate on what other books consider too obvious or too basic We explain the ideas that others assume you know we describe the things that can make learning to program a frustrating experience if you don t know them We stay with you through the process from starting with your very first blank screen to working on complex problems within a team Studying Programming has been written by 9 members of the Computing Education Research Group at the University of Kent All of us are practicing computing academics who also have a research interest in CS education So we have a strong classroom background teaching students on a daily basis and a strong research background knowing what has been investigated and written on with regard to students knowledge conception and difficulties in introductory programming      **Proceedings of the Eighteenth Annual Conference of the Cognitive**

**Science Society** Garrison W. Cottrell,2019-02-21 This volume features the complete text of all regular papers posters and summaries of symposia presented at the 18th annual meeting of the Cognitive Science Society Papers have been loosely grouped by topic and an author index is provided in the back In hopes of facilitating searches of this work an electronic index on the Internet s World Wide Web is provided Titles authors and summaries of all the papers published here have been placed in an online database which may be freely searched by anyone You can reach the Web site at <http://www.cse.ucsd.edu/events/cogsci96/proceedings> You may view the table of contents for this volume on the LEA Web site at <http://www.erlbaum.com>      **Improving K-12 STEM Education Outcomes through Technological Integration** Urban, Michael J.,Falvo, David A.,2015-11-12 The application of technology in classroom settings has equipped educators with innovative tools and techniques for effective teaching practice Integrating digital technologies at the elementary and secondary levels helps to enrich the students learning experience and maximize competency in the areas of science technology engineering and

mathematics Improving K 12 STEM Education Outcomes through Technological Integration focuses on current research surrounding the effectiveness performance and benefits of incorporating various technological tools within science technology engineering and mathematics classrooms Focusing on evidence based approaches and current educational innovations this book is an essential reference source for teachers teacher educators and professionals interested in how emerging technologies are benefiting teaching and or learning efficacy      **Managing Innovation** Joe Tidd, John R.

Bessant, 2018-06-05 Managing Innovation is the bestselling text for graduate and undergraduate students and a classic in the field Emphasizing practical evidence based tools and resources this title provides students with the knowledge base to successfully manage innovation technology and new product development The holistic approach addresses the interplay between the markets technology and the organization while relating the unique skill set required to manage innovation and innovation processes The sixth edition of Managing Innovation continues to include the popular Innovation in Action sections in each chapter which are now newly titled Case Studies and also features a number of new cases updated and new research notes and references and links to videos audio interviews activities and case studies The sixth edition also features new material on emerging innovation themes including business model innovation user innovation crowd sourcing creativity entrepreneurship service innovation public services and more The rapid pace of the field s evolution has brought an increase in multi disciplinary approaches and skills while expanding the available tool kit and pushing the boundaries of possibility forward This text provides expert navigation through the abundance of new data new methods new concepts and approaches but it is designed to encourage and support tailored experimentation not replace it Equipped with a strong foundation and a productive innovation management mindset todays students will be equipped to bring about the eras next great advances

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