

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.



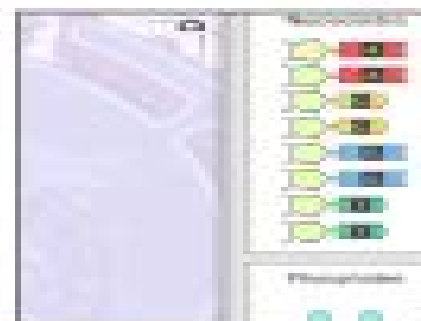
Gizmo Warm-up

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).



Gizmo Answers Explore Learning

Franklin S. Allaire, Jennifer E. Killham

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the authors' names.

Gizmo Answers Explore Learning:

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, 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. Gadgets, Games and Gizmos for Learning Karl M.

Kapp, 2007-09-24 Gadgets, Games and Gizmos is an innovative book that provides practical and original solutions to the impending boomer/gamer knowledge and skills transfer gap. The book outlines how gamer values such as the use of cheat codes, the love of gadgets, the need to play games, and the desire to be constantly connected can be used as methods for moving information from the heads of the boomers to the fingertips and gadgets of the gamers. As organizations begin to think strategically about how to attract, retain, and train new talent, this book, written by Karl Kapp, named one of 2007's Top 20 Most Influential Training Professionals by Training Industry Inc., will be an invaluable resource. **Using Physics**

Gadgets and Gizmos, Grades 9-12 Matthew Bobrowsky, Mikko Korhonen, Jukka Kohtamäki, 2014-03-01 What student or teacher can resist the chance to experiment with Rocket Launchers, Drinking Birds, Dropper Poppers, Boomwhackers, Flying Pigs, and more? The 54 experiments in Using Physics: Gadgets and Gizmos, Grades 9-12 encourage your high school students to explore a variety of phenomena involved with pressure and force, thermodynamics, energy, light, and color, resonance, buoyancy, two-dimensional motion, angular momentum, magnetism, and electromagnetic induction. The authors say there are three good reasons to buy this book: 1. To improve your students' thinking skills and problem-solving abilities. 2. To acquire easy-to-perform experiments that engage students in the topic. 3. To make your physics lessons waaaaay more cool. The phenomenon-based learning (PBL) approach used by the authors, two Finnish teachers and a U.S. professor, is as educational as the experiments are attention-grabbing. Instead of putting the theory before the application, PBL encourages students to first experience how the gadgets work and then grow curious enough to find out why. Students engage in the activities not as a task to be

completed but as exploration and discovery The idea is to help your students go beyond simply memorizing physics facts Using Physics Gadgets and Gizmos can help them learn broader concepts useful critical thinking skills and science and engineering practices as defined by the Next Generation Science Standards And thanks to those Boomwhackers and Flying Pigs both your students and you will have some serious fun For more information about hands on materials for Using Physical Science Gadgets and Gizmos books visit Arbor Scientific at http://www.arborsci.com/nsta_hskits *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 100 cross curricular sample lessons from each of the eight major content areas Earth Science Life Science Physical Science English Finance Algebra Geometry Social Studies Plans designed around the most frequently taught objectives found in national and international curricula Lessons educators can immediately replicate in their own classrooms or use to develop their own 20 brain compatible research based instructional strategies that work for all learners Five questions that high school teachers should ask and answer when planning brain compatible lessons and an in depth explanation of each of the questions Guidance on building relationships with students that enable them to learn at optimal levels It is a wonderful time to be a high school teacher This hands on resource will show you how to use what we know about educational neuroscience to transform your classroom into a place where success is accessible for all Connected Minds Nicolas Payette,2012-04-25 The theme for this volume is

social cognition construed from a psychological and collective point of view From the psychological point of view the question is to understand how the human mind processes social information how it encodes stores and uses it in the social context From a collective point of view the question is to understand how individual cognition is influenced improved increased or impaired by social interactions for instance in communicating and collaborating with intelligent agents These two dimensions of social cognition are obviously interdependent the psychological dimension makes the collective dimension possible which can in return modify the psychological dimension The book is divided into four parts The first part is about socio cognitive skills Among those we count face recognition imitation learning embodied social interaction cheater detection and psychological concept acquisition The second part is about persons and memories stereotypes attraction judgements and impression formation are the subjects at hand The third part is about understanding each other A key part of that understanding is the motor system whether or not we see it as a mirror but community membership itself can also contribute to our understanding of others The fourth and final part is about social cognition in societies This section is unified by the common goal of understand how social cognition actually influences the structure of different societies whether whole cultures specific social networks rural communities or even groups of caterpillars

New Directions in Technological Pedagogical Content Knowledge Research Dr. Myint Swe Khine, 2015-05-01 In the past decades wide ranging research on effective integration of technology in instruction have been conducted by various educators and researchers with the hope that the affordances of technology might be leveraged to improve the teaching and learning process However in order to put the technology in optimum use knowledge about how and in what way technology can enhance the instruction is also essential A number of theories and models have been proposed in harnessing the technology in everyday lessons Among these attempts Technological and Pedagogical Content Knowledge TPACK framework introduced by Mishra and Koehler has emerged as a representation of the complex relationships between technology pedagogy and content knowledge The TPACK framework extends the concept of Shulman s pedagogical content knowledge PCK which defines the need for knowledge about the content and pedagogical skills in teaching activities Since then the framework has been embraced by the educational technology practitioners instructional designers and educators TPACK research received increasing attention from education and training community covering diverse range of subjects and academic disciplines and significant progress has been made in recent years This book attempts to bring the practitioners and researchers to present current directions trends and approaches convey experience and findings and share reflection and vision to improve science teaching and learning with the use of TPACK framework A wide array of topics will be covered in this book including applications in teacher training designing courses professional development and impact on learning intervention strategies and other complex educational issues Information contained in this book will provide knowledge growth and insights into effective educational strategies in integration of technology with the use of TPACK as a theoretical and developmental tool The book

will be of special interest to international readers including educators teacher trainers school administrators curriculum designers policy makers and researchers and complement the existing literature and published works Creating Project-Based STEM Environments Jennifer Wilhelm,Ronald Wilhelm,Merryn Cole,2019-02-05 This book models project based environments that are intentionally designed around the United States Common Core State Standards CCSS 2010 for Mathematics the Next Generation Science Standards NGSS Lead States 2013 for Science and the National Educational Technology Standards ISTE 2008 The primary purpose of this book is to reveal how middle school STEM classrooms can be purposefully designed for 21st Century learners and provide evidence regarding how situated learning experiences will result in more advanced learning This Project Based Instruction PBI resource illustrates how to design and implement interdisciplinary project based units based on the REAL Realistic Explorations in Astronomical Learning Unit 1 and CREATES Chemical Reactions Engineered to Address Thermal Energy Situations Unit 2 The content of the book details these two PBI units with authentic student work explanations and research behind each lesson including misconceptions students might hold regarding STEM content pre post research results of unit implementation with over 40 teachers and thousands of students In addition to these two units there are chapters describing how to design one s own research based PBI units incorporating teacher commentaries regarding strategies obstacles overcome and successes as they designed and implemented their PBI units for the first time after learning how to create PBI STEM Environments the REAL way

Exploring Technology for Writing and Writing Instruction Pytash, Kristine E.,2013-07-31 As digital technologies continue to develop and evolve an understanding of what it means to be technologically literate must also be redefined Students regularly make use of digital technologies to construct written text both in and out of the classroom and for modern writing instruction to be successful educators must adapt to meet this new dichotomy Exploring Technology for Writing and Writing Instruction examines the use of writing technologies in early childhood elementary secondary and post secondary classrooms as well as in professional development contexts This book provides researchers scholars students educators and professionals around the world with access to the latest knowledge on writing technology and methods for its use in the classroom

GOOGLE APPS FOR TEACHERS □ A BEGINNER□S COURSE FOR TEACHERS TRAINING STUDENTS.GOOGLE APPS FOR TEACHERS □ A BEGINNER□S COURSE FOR TEACHERS TRAINING STUDENTS Dr. Ashok Yakkaladevi,2016-08-16 Google Search is at the guts of it all It s wherever several folks go multiple times every day to find info Google provides glorious resources for academics and students to become effective searchers and build essential digital acquisition skills for locating quality credible resources on the net *Evolution Education Re-considered* Ute Harms,Michael J. Reiss,2019-07-16 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 Presentation Basics Robert J. Rosania,2023-05-26 A step by step trainers guide for navigating presentation planning delivery and follow up Presentation Basics eases readers through the presentation development process Providing 20 essential tips for success it addresses everything from preparation using aids and creating the right environment to improving delivery and recovering control when things go wrong Learn Small Business Startup in 7 Days Heather Smith,2012-12-05 The practical guide to learning the essentials of starting your own business in just one week Thinking about starting a business Then Learn Small Business Startup in 7 Days is the book for you Guiding you through the key aspects of getting a new business up and running from a self assessment about whether you are really prepared through to finance marketing and legal issues highly sought after small business commentator Heather Smith covers it all Carefully explaining everything you need to know to efficiently and effectively start a business the book comprehensively covers the basics in 7 chapters one for every day it will take you to get ready to leave the rat race and live your small business dream Covers everything you need to know to start and prosper as a small business owner Helps you gauge whether running a small business is right for you Offers expert advice from a highly respected small business specialist While running a small business allows you to turn your passion into your livelihood it is also often very demanding on your time your cash reserves and your sanity With this book in hand you have everything you need to lay a solid foundation for small business success **Datapolis** Paul Cournet,Negar Sanaan Bensi,2024-02-05 DATAPOLIS looks into the materiality of data its inherent ethical and political contradictions as well as cultural and environmental footprints by following two main trajectories the first one attempts to define what the cloud is and how it operates From the systems and infrastructures behind the Internet to the apparatus gizmos and buildings that can transcend scales and temporal dimensions The second one explores how data penetrates our existence not only by affecting the ways we live and work or design and make cities but by offering distinct ways of life and organization that otherwise would not have been possible Through various visual and textual materials this book speculates on the ways in which architecture can engage with data and digital technology beyond its mere instrumental use in making smart cities DATAPOLIS is edited by Paul Cournet and Negar Sanaan Bensi With contributions by Kees Kaan Kate Crawford Shannon Mattern Ruha Benjamin Marina Otero Verzier and Joost Grootens a o The most complete version of this work was published in 2023 by nai010

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Informal Learning Jay Cross,2011-01-25 Most learning on the job is informal This book offers advice on how to support nurture and leverage informal learning and helps trainers to go beyond their typical classes and programs in order to widen and deepen heir reach The author reminds us that we live in a new radically different constantly changing and often distracting workplace He guides us through the plethora of digital learning tools that workers are now accessing through their computers PDAs and cell phones **Educational Recommender Systems and Technologies: Practices and Challenges** Santos, Olga C.,2011-12-31 Recommender systems have shown to be successful in many domains where information overload exists This success has motivated research on how to deploy recommender systems in educational scenarios to facilitate access to a wide spectrum of information Tackling open issues in their deployment is gaining importance as lifelong learning becomes a necessity of the current knowledge based society Although Educational Recommender Systems ERS share the same key objectives as recommenders for e commerce applications there are some particularities that should be considered before directly applying existing solutions from those applications Educational

Recommender Systems and Technologies Practices and Challenges aims to provide a comprehensive review of state of the art practices for ERS as well as the challenges to achieve their actual deployment Discussing such topics as the state of the art of ERS methodologies to develop ERS and architectures to support the recommendation process this book covers researchers interested in recommendation strategies for educational scenarios and in evaluating the impact of recommendations in learning as well as academics and practitioners in the area of technology enhanced learning 3ds Max in 24 Hours, Sams Teach Yourself Stewart Jones, 2013-11-11 Full Color In just 24 sessions of one hour or less Sams Teach Yourself 3ds Max in 24 Hours will help you master Autodesk 3ds Max 2014 and use it to create outstanding 3D content for games video film and motion graphics Using this book's straightforward step by step approach you'll master powerful 3ds Max tools for modeling animation rendering compositing and more Every lesson builds on what you've already learned giving you a rock solid foundation for real world success Step by step instructions carefully walk you through the most common 3ds Max tasks Try It Yourself guided mini tutorials offer quick hands on experience with 3ds Max's key tools Quizzes and exercises test your knowledge Notes tips and cautions offer extra information and alert you to possible problems Learn how to Quickly get comfortable with the 3ds Max 2014 interface Create move and modify 3D objects Edit and tweak the elements of any object Start modeling hard surface and organic objects Work with materials and textures Explore and create animation Illuminate scenes with lighting Use cameras to control a scene's point of view Render 3D creations for production Rig and skin objects making them easier to animate Learn the 12 essential principles of character animation Create devastating dynamic simulations Add visual effects cloth hair and fur Automate repetitive tasks with MAXScript Create a professional quality showcase The accompanying DVD website contain how to videos for dozens of key 3ds Max 2014 tasks extensive sample art and models and additional bonus content

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