



Name: **Megh**

Date: **3/17-3/18**

Student Exploration: Building DNA

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

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.

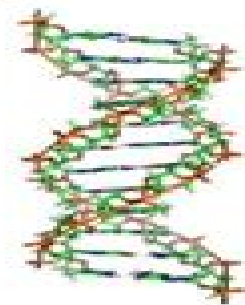
1. Look at the DNA molecule shown at right. What does it look like?

A double helix strand, and a spiral staircase. This shape is called a 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.)

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**.

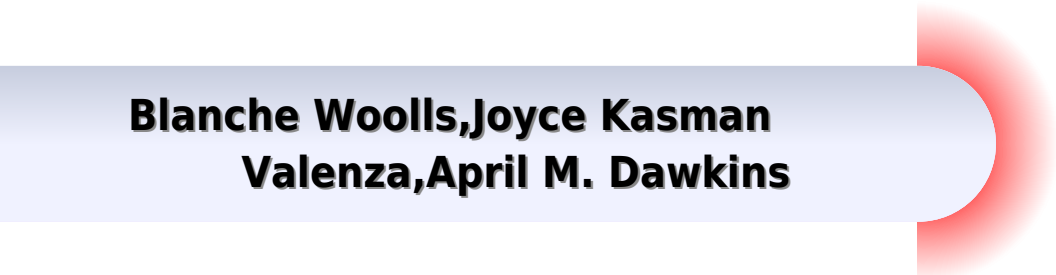


How many different nitrogenous bases do you see?

Four different nitrogenous bases

Student Exploration Building Dna Answer

**Blanche Woolls,Joyce Kasman
Valenza,April M. Dawkins**



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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 Cells, Teacher's Guide , **Integrating 3D Printing into Teaching and Learning** , 2020-01-20 Three dimensional or 3D printing technology is a process of making three dimensional solid objects from a digital file Currently low cost and affordable 3D printers enable teachers schools and higher education institutions to make 3D printing a part of the curriculum Integrating 3D printing into the curriculum provides an opportunity for students to collaboratively discuss design and create 3D objects The literature reveals that there are numerous advantages of integrating 3D printing into teaching and learning Educators recommend that 3D printing should be introduced to the students at a young age to teach STEM concepts develop creativity and engage in team work essential skills for the 21st century work force This edited volume documents recent attempts to integrate 3D printing into the curriculum in schools and universities and research on its efficacies and usefulness from the practitioners perspectives It unveils the exemplary works by educators and researchers in the field highlighting the current trends theoretical and practical aspects of 3D printing in teaching and learning Contributors are Waleed K Ahmed Issah M Alhamad Hayder Z Ali Nagla Ali Hamad Aljassmi Jason Beach Jennifer Buckingham Michael Buckingham Dean Cairns Manisha Dayal Muhammet Demirbilek Yujiro Fujiwara Anneliese Hulme Myint Swe Khine Lee Kenneth Jones Jennifer Loy Kehui Luo Elena Novak James I Novak Joshua Pearce Dorothy Belle Poli Chelsea Schelly Min Jeong Song Sylvia Stavridi Lisa Stoneman Goran trkalj Mirjana trkalj Pamela Sullivan Jeremy Wendt Stephanie Wendt and Sonya Wisdom *The Joy of Science* Richard A. Lockshin, 2007-11-05 Scientists have great passion What could be more exhilarating than to go to work every day feeling as if you were once again a nine year old called up to the stage to help the magician with his trick To be a researcher is to always be in the position of having the chance to see how the trick works No wonder that many researchers feel that each new day is the most exciting day to be a scientist It therefore is not surprising that scientists have such trouble communicating with non scientists It is difficult for the scientist to understand a life not

focused on the desire to understand But the differences are not that Everyone wants to understand that is one of the factors that make us human The difference is more that scientists limit their definition of comprehension to specific rules of logic and evidence These rules apply and are used in everyday life but often with less rigor or restrictions on evidence The Science of Michael Crichton Kevin R. Grazier,2008-02-09 Wherever the cutting edge of science goes Michael Crichton is there From dinosaur cloning to global warming nanotechnology to time travel animal behavior to human genetics Crichton always takes us to the cutting edge of science and then pushes the envelope The Science of Michael Crichton examines the amazing inventions of Crichton s books and lifts up the hood revealing the science underneath In intelligent and well thought essays scholars and experts decide what Crichton gets right and what he gets wrong They examine which Crichton imaginings are feasible and which are just plain impossible Scenarios examined include whether dinosaurs can be cloned if nanotechnological particles can evolve intelligence and if we can go back in time **The School Library Manager** Blanche Woolls,Joyce Kasman Valenza, April M. Dawkins,2023-06-15 The seventh edition of this comprehensive school library management text expands upon the role of the school librarian especially in the ever growing digital realm and highlights the importance of school librarian leadership and outreach In an era of budget cuts reduced staffing and a global pandemic it s more important than ever for new LIS professionals and established school librarians and administrators to demonstrate the value of school libraries to decision makers This revised and updated edition of a classic text adds two well known authors to help lead readers through the many essential management tasks and skills required to administer the successful school library program It emphasizes the importance of the school librarian in providing digital access to information for teachers and students describes how facilities are being modified to accommodate new resources and programming and offers new ways to use AASL standards to evaluate programs All chapters are updated and the text addresses such timely subjects as providing information resources when students teachers and librarians are interacting online A new chapter highlights the importance of the school librarian s leadership in schools districts and communities This invaluable textbook teaches practical skills for school library management and offers inspiration and guidance for growing LIS careers **Journal of the British Interplanetary Society** ,1978 Resources in Education ,1996-08 **Information-Theoretic Incompleteness** Gregory J. Chaitin,1992 In this mathematical autobiography Gregory Chaitin presents a technical survey of his work and a nontechnical discussion of its significance The volume is an essential companion to the earlier collection of Chaitin s papers Information Randomness and Incompleteness also published by World Scientific The technical survey contains many new results including a detailed discussion of LISP program size and new versions of Chaitin s most fundamental information theoretic incompleteness theorems The nontechnical part includes the lecture given by Chaitin in G del s classroom at the University of Vienna a transcript of a BBC TV interview and articles from New Scientist La Recherche and the Mathematical Intelligencer **Popular Mechanics** ,2000-01 Popular Mechanics inspires instructs and influences

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