



MAKING A MODEL OF DNA INSTRUCTIONS



1) Colour the individual structures on the worksheet as follows:

adenine = red
guanine = blue
phosphate = brown

thymine = green
cytosine = yellow
deoxyribose = purple

2) Cut out each structure.

3) Using the small symbols (squares, circles and stars) on the structures as guides, line up the bases, phosphates and sugars.

4) Glue the appropriate pairs together to form nucleotides.

5) Construct the right side of your DNA molecule by putting together in sequence a cytosine, thymine, guanine and adenine nucleotide.

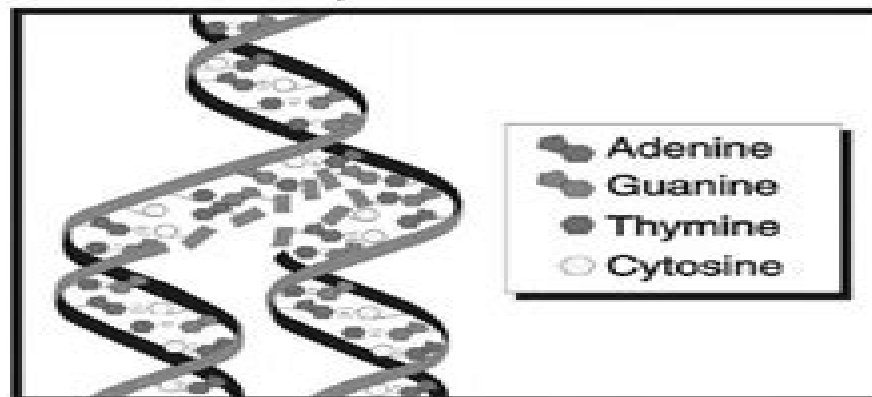
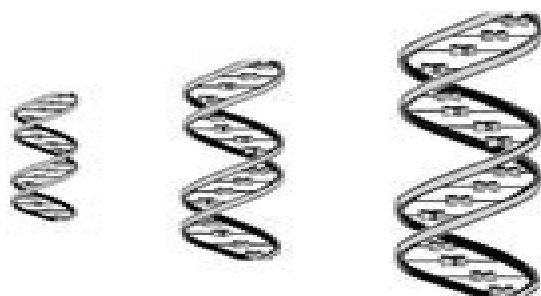
6) Complete the left side of the DNA ladder by adding complementary nucleotides or nucleotides that fit. Your finished model should resemble a ladder.

7) To show replication of your model, separate the left side from the right side on your desk, leaving a space of about 15 to 20 cm.

8) Using the remaining nucleotides, add to the left side of the model to build a new DNA molecule. Do the same with the separated right side.

9) Tape or glue the nucleotides together to form two complete identical DNA ladders or molecules.

10) Answer the following questions.



Making A Model Of Dna Instructions With Answers

Angela Wagner



Making A Model Of Dna Instructions With Answers:

Biology/science Materials Carolina Biological Supply Company,1991 *Cells Gr. 5-8* Angela Wagner,2007-09-01
Become a cell expert Our resource demonstrates why cells are the building blocks of life Start your breakdown by first identifying what a cell is Then compare single celled and multicellular organisms Introduce the concept of DNA before exploring the different parts of a cell From there take a look at the jobs of these parts Move on to cell reproduction by exploring mitosis and meiosis Dissect plant and animal cells to see how they work and how they are similar Look at the big picture by seeing how cells become organisms Finally learn how particles move through cell membranes with diffusion and osmosis Aligned to the Next Generation Science Standards and written to Bloom s Taxonomy and STEAM initiatives additional hands on experiments crossword word search comprehension quiz and answer key are also included **Ecology & The Environment Big Book Gr. 5-8** Angela Wagner,2007-09-01 Explore your environment with our Life Science 3 book BUNDLE Students begin by studying the different kinds of Ecosystems See how food chains work by creating your own food web Look through a microscope at the tiny world of microorganisms Next delve deep into ecosystems with Classification Adaptation Classify animals by their kingdom all the way down to their species Then do a case study on the adaptations of the koala Finally take a look at the building blocks of life with Cells Compare single celled and multicellular organisms Look at the big picture by seeing how cells become organisms Each concept is paired with hands on activities and experiments Aligned to the Next Generation Science Standards and written to Bloom s Taxonomy and STEAM initiatives additional crossword word search comprehension quiz and answer key are also included *The Listener* ,1973-07 **Biological Science** Biological Sciences Curriculum Study,1980 SUMMARY Introductory text with problems exercises and laboratory exercises which emphasizes development and adaptation at all levels and which includes up to date coverage of physiology genetics biochemistry and ecology **Cells: Cell Reproduction** Angela Wagner,2013-04-01 This is the chapter slice Cell Reproduction from the full lesson plan Cells Cells are the building blocks of life We take you from the parts of plant and animal cells and what they do to single celled and multi cellular organisms Using simplified language and vocabulary concepts we discover human cell reproduction as well as diffusion and osmosis Our resource provides ready to use information and activities for remedial students using simplified language and vocabulary Ready to use reading passages student activities and color mini posters our resource is effective for a whole class small group and independent work All of our content meets the Common Core State Standards and are written to Bloom s Taxonomy and STEM initiatives **New Scientist** ,1969 *Biology* ,1984 **Biological Science : an Ecological Approach** Staff Bscs,1992 **Biology-- a Human Approach** Biological Sciences Curriculum Study,1997 **Living with Haemophilia** Peter Jones,2002-05-16 Living with haemophilia has established itself as the complete guide for people who suffer from haemophilia and their families Sensitively and clearly written it takes a positive approach to physical development and encourages the pursuit of healthy

active and fruitful living Peter Jones shows how with the right care the person with haemophilia can live an active and normal life

Science of Life: Biology Parent Lesson Plan ,2013-08-01 The Science of Life Biology Course Description This is the suggested course sequence that allows one core area of science to be studied per semester You can change the sequence of the semesters per the needs or interests of your student materials for each semester are independent of one another to allow flexibility Semester 1 Intro to Science Have you ever wondered about human fossils cave men skin color ape men or why missing links are still missing Want to discover when T Rex was small enough to fit in your hand Or how old dinosaur fossils are and how we know the age of these bones Learn how the Bible's world view not evolution's unites evidence from science and history into a solid creation foundation for understanding the origin history and destiny of life including yours In Building Blocks in Science Gary Parker explores some of the most interesting areas of science fossils the errors of evolution the evidences for creation all about early man and human origins dinosaurs and even races Learn how scientists use evidence in the present how historians use evidence of the past and discover the biblical world view not evolution that puts the two together in a credible and scientifically sound way Semester 2 Life Science Study clear biological answers for how science and Scripture fit together to honor the Creator Have you ever wondered about such captivating topics as genetics the roll of natural selection embryonic development or DNA and the magnificent origins of life Within Building Blocks in Life Science you will discover exceptional insights and clarity to patterns of order in living things including the promise of healing and new birth in Christ Study numerous ways to refute the evolutionary worldview that life simply evolved by chance over millions of years The evolutionary worldview can be found filtered through every topic at every age level in our society It has become the overwhelmingly accepted paradigm for the origins of life as taught in all secular institutions This dynamic education resource helps young people not only learn science from a biblical perspective but also helps them know how to defend their faith in the process

Biological Science, an Ecological Approach Biological Sciences Curriculum Study,1992 A collection of copy masters designed to supplement and extend the test material in a variety of ways Each item is keyed to the most closely related chapter

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New Scientist and Science Journal ,2003 **University of Allahabad Studies** University of Allahabad,1973 Biology Starr,Cecie Starr,1993 This paperback gives instructors the option of purchasing a shorter book covering selected topics Biology A Human Emphasis covers Part I Cells Part II Genetics Part VI Animal Systems Chapter 39 Population Ecology and Chapter 43 Human Impact on the Biosphere This book contains all front matter with a customized table of contents and back matter from Biology Concepts and Applications Also all the ancillaries available for Biology Concepts and Applications are available for this version

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