

Study Guide: Answer Key

Chapter 7: DNA Structure and Replication

Biologically Unique: How DNA helped free an innocent man

Driving Question 1:

What is the function of DNA, and how is DNA organized in cells?

Why should you care?

DNA is the hereditary molecule—passed from parents to offspring—that serves as the instruction manual for “building” each individual. DNA is found in the nucleus of almost every cell in our body. Forensic scientists can, therefore, collect DNA evidence from many different types of crime scene evidence, such as semen, saliva, skin cells, blood, and hair. This DNA can then be used to positively identify a perpetrator or exonerate accused suspects of a crime.

Roy Brown was convicted by junk science, the only “evidence” linking him to the crime was his teeth, and bite mark analysis is notoriously unreliable. Other types of physical evidence, such as hair samples examined under a microscope, are also problematic because they are not distinct enough to positively identify the individual from which they come. DNA is valuable in forensics because it is unique to each individual. DNA’s structure is the key to its uniqueness in each individual.

What should you know?

To fully answer this Driving Question, you should be able to:

1. Describe the origin and function of DNA.
2. Describe the location of DNA in eukaryotic cells.
3. Describe the structure of chromosomes.
4. Describe the number and origin of the chromosomes in human cells.

Infographic Focus:

The infographics most pertinent to the Driving Question are 7.1 and 7.2.

Test Your Vocabulary:

Match these terms to their definitions:

[DEOXYRIBONUCLEIC ACID (DNA)] The molecule of heredity, common to all life forms, that is passed from parents to offspring.

[CHROMOSOME] A single, large DNA molecule wrapped around proteins.

Chromosomes are located in the nuclei of most eukaryotic cells.

[NUCLEOTIDES] The building blocks of DNA. Each nucleotide consists of a sugar, a phosphate, and a base. The sequence of nucleotides (As, Cs, Gs, Ts) along a DNA strand is unique to each person.

1. Describe the origin and function of DNA.

Answer Key Chapter 1study Guide Biology

Virginia Fry



Answer Key Chapter 1 Study Guide Biology:

Study Guide to Accompany Biology, Third Edition, by Arms & Camp Virginia Fry, 1987 **Study Guide: Sg Concepts in Biology** Eldon D. Enger, Enger, Frederick C. Ross, 2003 *Revise GCSE History* Alan Scadding, Colin Shephard, 2005 New editions of the bestselling *Revise GCSE Study Guides* with a fresh new look and updated content in line with curriculum changes. *Revise GCSE* contains everything students need to achieve the GCSE grade they want. Each title has been written by a GCSE examiner to help boost students' learning and focus their revision. Each title provides complete curriculum coverage with clearly marked exam board labels so students can easily adapt the content to fit the course they are studying. *Revise GCSE* is an ideal course companion throughout a student's GCSE study and acts as the ultimate Study Guide throughout their revision.

Student Study Guide for Biology [by] Campbell/Reece Martha R. Taylor, 2002. Marty Taylor, Cornell University. Provides a concept map of each chapter, chapter summaries, a variety of interactive questions, and chapter tests.

Revise GCSE Physical Education (2010 Exams Only) Don E. Webster, 2005. New editions of the bestselling *Revise GCSE Study Guides* with a fresh new look and updated content in line with curriculum changes. *Revise GCSE* contains everything students need to achieve the GCSE grade they want. Each title has been written by a GCSE examiner to help boost students' learning and focus their revision. Each title provides complete curriculum coverage with clearly marked exam board labels so students can easily adapt the content to fit the course they are studying. *Revise GCSE* is an ideal course companion throughout a student's GCSE study and acts as the ultimate Study Guide throughout their revision.

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Excel Science Study Guide, Years 9-10 Will Marchmont, 2004. The book contains coverage of five major topic areas in the NSW School Certificate test: Energy, Force and Motion, Atoms, Elements and Compounds, Structure and Function of Living Things, Earth and Space, Ecosystems, Resources and Technology, a chapter on Investigations and Problem Solving in Science to help with practical skills, revision questions, and chapter tests to help you remember important information, a glossary and summary in each section of the book, diagrams and illustrations to help your understanding, a section to help you prepare for the School Certificate test, a sample School Certificate test paper with answers, answers to all questions.

Study Guide to Accompany Biology by Karen Arms and Pamela S. Camp Russell C. Hollingsworth, 1979 **Revise Gcse Religious Studies** Catherine Lane, 2005. New editions of the bestselling *Revise GCSE Study Guides* with a fresh new look and updated content in line with curriculum changes. *Revise*

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Student Study Guide to Accompany Biology and Human Concerns, by E. Peter Volpe Peter A. Rosenbaum,1993

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Study Guide George Karleskint,1991 **Study Guide to Accompany Biology: Life on Earth by Teresa Audesirk and Gerald Audesirk** David J. Cotter,1986 **Study Guide** Johnson,Judith

Stewart,2000-12 Designed specifically for the one semester human biology course Contains traditional chapter review and self testing activities *Study Guide to Accompany Ronald M. Atlas' Microbiology* Harry E. Peery,1984 **Teacher's**

Wraparound Edition: Two Biology Everyday Experience Albert Kaskel,1994-04-19 Study Guide and Workbook to Accompany Zimbardo and Weber's Psychology, Second Edition Peter C. Gram,Philip G. Zimbardo,1997 Psychology Third Edition builds upon the experience and reputations of Phil Zimbardo and Ann Weber with the addition of a new co author Bob Johnson who has a wealth of teaching experience at the community college level This briefer less expensive book presents psychology in a meaningful manageable format that focuses on the key questions and core concepts of psychology

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Jackson,1999 Asks the student to write all answers in this study guide workbook This workbook is interactive because it requires students to do things instead of just read more material All questions are arranged by chapter modules so students may skip unassigned material Each module in the study guide refers to the page numbers of the corresponding module in the text There is a wide variety of questions multiple choice questions tables to be filled in art to be labeled true false questions requiring students to write the correct answer if the statement is false thought provoking conceptual questions boldfaced terms requiring a written definition list of objectives in fill in the blank format and other types of questions **Cell and Molecular Biology, Problems Book and Study Guide** Gerald Karp,2001-09-25 Balances coverage of the concepts of cell and molecular biology using examples of experimentation to support those concepts As experimental techniques become more diverse and complex it is increasingly necessary to identify individual studies that have a broad impact on our understanding of cell biology This text describes in detail some of the key experimental findings along with the original data and figures

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