

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 To Standardized Modern Biology

LL Leslie



Answer Key To Standardized Modern Biology:

Pamphlet - Dept. of the Army United States. Department of the Army,1951 **The Australian Science Teachers' Journal** ,1961 Standard Nomenclature List United States Armed Forces Institute,1953 Modern Thermodynamics for Chemists and Biochemists Dennis Sherwood,Paul Dalby,2018 Thermodynamics is fundamental to university curricula in chemistry physics engineering and many life sciences It is also notoriously difficult for students to understand learn and apply This book explains the fundamental concepts with great clarity and shows how they can be applied to a variety of chemical and life science contexts **Books in Print Supplement** ,2002 **Handbooks for the Teachers and Students of the Olentangy High School, Delaware County, Ohio** William Merton Corven,1957 **The Virginia Journal of Education** ,1958 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1965 Includes Part 1 Number 2 Books and Pamphlets Including Serials and Contributions to Periodicals July December *The Publishers' Trade List Annual* ,1973 **Midland Schools** ,1957 **SAT Two, Biology and Biology E/M** Maurice Bleifeld,1998 An overview of the SAT II biology exams with a review of test taking strategies is followed by a full length diagnostic test review chapters covering 11 biology topics and five complete practice tests each with an answer key a self evaluation chart and explanations of answers **Standard Tests Number** Kansas State Teachers College of Emporia. Bureau of Educational Measurements,1950 *Virginia Journal of Education* ,1958 1955 Standard Tests Number Kansas State Teachers College of Emporia. Bureau of Educational Measurements,1951 Metropolitan Detroit Science Review ,1959 Children's Books in Print R R Bowker Publishing,Bowker,1999-12 **New York State Education** ,1963 **Books and Pamphlets, Including Serials and Contributions to Periodicals** Library of Congress. Copyright Office,1974 Purchase Guide for Programs in Science, Mathematics, Modern Foreign Languages ,1959 Books In Print 2004-2005 Ed Bowker Staff,Staff Bowker, Ed,2004

This book delves into Answer Key To Standardized Modern Biology. Answer Key To Standardized Modern Biology is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Answer Key To Standardized Modern Biology, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Answer Key To Standardized Modern Biology
 - Chapter 2: Essential Elements of Answer Key To Standardized Modern Biology
 - Chapter 3: Answer Key To Standardized Modern Biology in Everyday Life
 - Chapter 4: Answer Key To Standardized Modern Biology in Specific Contexts
 - Chapter 5: Conclusion
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 3. In chapter 2, this book will delve into the foundational concepts of Answer Key To Standardized Modern Biology. The second chapter will elucidate the essential principles that must be understood to grasp Answer Key To Standardized Modern Biology in its entirety.
 4. In chapter 3, the author will examine the practical applications of Answer Key To Standardized Modern Biology in daily life. This chapter will showcase real-world examples of how Answer Key To Standardized Modern Biology can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Answer Key To Standardized Modern Biology in specific contexts. The fourth chapter will explore how Answer Key To Standardized Modern Biology is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Answer Key To Standardized Modern Biology. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Answer Key To Standardized Modern Biology.

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