

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.

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Table of Contents Modern Biology Study Guide Answer Key Ch 12

1. Understanding the eBook Modern Biology Study Guide Answer Key Ch 12
 - The Rise of Digital Reading Modern Biology Study Guide Answer Key Ch 12
 - Advantages of eBooks Over Traditional Books
2. Identifying Modern Biology Study Guide Answer Key Ch 12
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Modern Biology Study Guide Answer Key Ch 12
 - User-Friendly Interface
4. Exploring eBook Recommendations from Modern Biology Study Guide Answer Key Ch 12
 - Personalized Recommendations
 - Modern Biology Study Guide Answer Key Ch 12 User Reviews and Ratings
 - Modern Biology Study Guide Answer Key Ch 12 and Bestseller Lists

5. Accessing Modern Biology Study Guide Answer Key Ch 12 Free and Paid eBooks
 - Modern Biology Study Guide Answer Key Ch 12 Public Domain eBooks
 - Modern Biology Study Guide Answer Key Ch 12 eBook Subscription Services
 - Modern Biology Study Guide Answer Key Ch 12 Budget-Friendly Options
6. Navigating Modern Biology Study Guide Answer Key Ch 12 eBook Formats
 - ePub, PDF, MOBI, and More
 - Modern Biology Study Guide Answer Key Ch 12 Compatibility with Devices
 - Modern Biology Study Guide Answer Key Ch 12 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Modern Biology Study Guide Answer Key Ch 12
 - Highlighting and Note-Taking Modern Biology Study Guide Answer Key Ch 12
 - Interactive Elements Modern Biology Study Guide Answer Key Ch 12
8. Staying Engaged with Modern Biology Study Guide Answer Key Ch 12
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Modern Biology Study Guide Answer Key Ch 12
9. Balancing eBooks and Physical Books Modern Biology Study Guide Answer Key Ch 12
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Modern Biology Study Guide Answer Key Ch 12
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Modern Biology Study Guide Answer Key Ch 12
 - Setting Reading Goals Modern Biology Study Guide Answer Key Ch 12
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Modern Biology Study Guide Answer Key Ch 12
 - Fact-Checking eBook Content of Modern Biology Study Guide Answer Key Ch 12
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

-
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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