

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 27 Reading Biology

Michael Hoelscher



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1. Understanding the eBook Answer Key Chapter 27 Reading Biology
 - The Rise of Digital Reading Answer Key Chapter 27 Reading Biology
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer Key Chapter 27 Reading Biology
 - 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 Answer Key Chapter 27 Reading Biology
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Key Chapter 27 Reading Biology
 - Personalized Recommendations
 - Answer Key Chapter 27 Reading Biology User Reviews and Ratings
 - Answer Key Chapter 27 Reading Biology and Bestseller Lists

5. Accessing Answer Key Chapter 27 Reading Biology Free and Paid eBooks
 - Answer Key Chapter 27 Reading Biology Public Domain eBooks
 - Answer Key Chapter 27 Reading Biology eBook Subscription Services
 - Answer Key Chapter 27 Reading Biology Budget-Friendly Options
6. Navigating Answer Key Chapter 27 Reading Biology eBook Formats
 - ePub, PDF, MOBI, and More
 - Answer Key Chapter 27 Reading Biology Compatibility with Devices
 - Answer Key Chapter 27 Reading Biology Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answer Key Chapter 27 Reading Biology
 - Highlighting and Note-Taking Answer Key Chapter 27 Reading Biology
 - Interactive Elements Answer Key Chapter 27 Reading Biology
8. Staying Engaged with Answer Key Chapter 27 Reading Biology
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answer Key Chapter 27 Reading Biology
9. Balancing eBooks and Physical Books Answer Key Chapter 27 Reading Biology
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answer Key Chapter 27 Reading Biology
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answer Key Chapter 27 Reading Biology
 - Setting Reading Goals Answer Key Chapter 27 Reading Biology
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answer Key Chapter 27 Reading Biology
 - Fact-Checking eBook Content of Answer Key Chapter 27 Reading Biology
 - 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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