

## 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.

# Chapter 7 Biology Study Answers

**Stephanie Zinn**



## Chapter 7 Biology Study Answers:

**CliffsNotes HESI A2 Science Cram Plan** Michael Reid,2021-04-13 A study guide for the HESI A2 science nursing school test that calendarizes a study plan for test takers depending on how much time they have left before taking the test Get a plan and make the most of the time you have left Whether you have two months one month or one week left before the exam you can turn to the experts at CliffsNotes for a trusted and achievable cram plan to ace the HESI A2 Science without ever breaking a sweat First you ll determine exactly how much time you have left to prepare for the exam Then you ll turn to the two month one month or one week cram plan for week by week and day by day schedules of the best way to focus your study according to your unique timeline Each stand alone plan includes Diagnostic tests help you pinpoint your strengths and weaknesses so you can focus your review on the topics in which you need the most help Subject areas review of material you should know for the exam biology chemistry anatomy and physiology and physics Practice exams with answers and detailed explanations *McGraw-Hill's SAT Subject Test: Biology E/M, 2/E* Stephanie Zinn,2009-02-01 We want to help you score high on the SAT Biology E M tests We ve put all of our proven expertise into McGraw Hill s SAT Subject Test Biology E M to make sure you re fully prepared for these difficult exams With this book you ll get essential skill building techniques and strategies created by leading high school biology teachers and curriculum developers You ll also get 5 full length practice tests hundreds of sample questions and all the facts about the current exams With McGraw Hill s SAT Subject Test Biology E M we ll guide you step by step through your preparation program and give you the tools you need to succeed 4 full length practice exams and a diagnostic exam with complete explanations for every question 30 top test items to remember on exam day A step by step review of all topics covered on the two exams Teacher recommended tips and strategies to help you raise your score **AP Computer Science** Kathleen A. Larson,David Levine,2005 Boxed quotes offering advice from students who have aced the exams and from AP teachers and college professors **McGraw-Hill Education SAT Subject Test Biology E/M 4th Ed.** Stephanie Zinn,2016-01-01 Prepare for the SAT Biology E M test with the experts you trust This step by step guide will give you the knowledge and tools you need to succeed on this challenging exam You ll get essential skill building techniques and strategies created and classroom tested by high school science teachers and curriculum developers You ll also get full length practice tests hundreds of sample questions and all the facts about the current exam everything you need to do your best on test day Features 4 full length sample tests in the latest test format More than 400 practice questions Step by step review of all topics covered on the exam Teacher recommended strategies to raise your score Special features SAT Biology at a Glance Top Items to Remember on Test Day and more About the Authors Stephanie Zinn New York NY taught biology at the Spence School a leading private high school in New York City Nick Tarasen is a widely published science writer and educator [The Bridge - From Science to God](#) Richard Krauland,2025-07-22 If you believe in science then you will believe in God You just don t know it yet The fact is that during these past twenty five years or so scientists in

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**The Quarterly Review of Biology** Raymond Pearl, 1929 Includes section New biological books and other bibliographies

*Sociology and Modern Social Problems* Charles Abram Ellwood, 1910 *Nature*, 1923 [Research in Education](#), 1974

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