

## 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.

# Study Guide Answer Key Biology

**Dave Hayward**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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**Modern Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2006-01-01      **RES Biology STAAR Study Guide Answer Key** Responsive Education Solutions, 2014-03-01 Individual Biology STAAR Study Guide Answer Key

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include the necessary review of the basic content but also the intertwined fundamental ideas underlying biology The full length practice tests have been designed to focus on complex questions that require critical thinking and problem solving similar to those on the actual AP Biology exam Highlights include 2 full length practice tests and answer keys End of chapter practice quizzes and answer keys Explanations for answers to all multiple choice and free response questions End of chapter summary and list of keywords for important concepts Illustrations throughout to give additional support to the learning experience

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