

## 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.

# Modern Biology Study Guide Answer Key 9

**Rachel Sandford**



**Modern Biology Study Guide Answer Key 9:**

## Unveiling the Energy of Verbal Beauty: An Emotional Sojourn through **Modern Biology Study Guide Answer Key 9**

In some sort of inundated with screens and the cacophony of quick transmission, the profound energy and mental resonance of verbal beauty often fade in to obscurity, eclipsed by the regular assault of sound and distractions. Yet, set within the lyrical pages of **Modern Biology Study Guide Answer Key 9**, a charming work of literary elegance that pulses with raw emotions, lies an unique journey waiting to be embarked upon. Published by a virtuoso wordsmith, that mesmerizing opus books readers on an emotional odyssey, delicately exposing the latent possible and profound impact embedded within the delicate web of language. Within the heart-wrenching expanse of the evocative evaluation, we will embark upon an introspective exploration of the book is central themes, dissect their interesting publishing model, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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