

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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Modern Biology Study Guide Chapter 11 Answer Key:

Embracing the Track of Term: An Emotional Symphony within **Modern Biology Study Guide Chapter 11 Answer Key**

In a global used by monitors and the ceaseless chatter of fast connection, the melodic splendor and emotional symphony created by the prepared word usually diminish into the back ground, eclipsed by the relentless noise and disruptions that permeate our lives. But, situated within the pages of **Modern Biology Study Guide Chapter 11 Answer Key** a wonderful fictional treasure full of raw emotions, lies an immersive symphony waiting to be embraced. Crafted by an outstanding musician of language, that charming masterpiece conducts viewers on a psychological trip, skillfully unraveling the concealed tunes and profound influence resonating within each cautiously constructed phrase. Within the depths of the poignant review, we will examine the book is central harmonies, analyze its enthralling publishing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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