

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 7

M Lipman



Modern Biology Study Guide Answer Key 7:

Unveiling the Energy of Verbal Art: An Emotional Sojourn through **Modern Biology Study Guide Answer Key 7**

In a global inundated with screens and the cacophony of immediate conversation, the profound power and mental resonance of verbal artistry often diminish into obscurity, eclipsed by the constant assault of noise and distractions. Yet, nestled within the musical pages of **Modern Biology Study Guide Answer Key 7**, a interesting perform of fictional brilliance that pulses with organic thoughts, lies an unforgettable journey waiting to be embarked upon. Composed by way of a virtuoso wordsmith, that mesmerizing opus books readers on a mental odyssey, delicately revealing the latent possible and profound influence embedded within the elaborate internet of language. Within the heart-wrenching expanse of this evocative analysis, we can embark upon an introspective exploration of the book is main subjects, dissect its captivating writing model, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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