

From DNA to Proteins

Study Guide B

Answer Key

SECTION 1. STRUCTURE OF DNA

Nucleotide: Refer to the Visual Vocab in Section 2 for visual answers. Students should label: phosphate group; nitrogen-containing base; and deoxyribose sugar.

- 4
- the phosphate group and the deoxyribose sugar; the nitrogen-containing base
- that it was of uniform width
- by building models
- The sugar-phosphate backbone is on the outside. Inside the structure, a base with two rings always pairs with a base with only one ring.
- A; G

DNA Double Helix: drawing should include sugar-phosphate backbone; nitrogen-containing bases; and hydrogen bonds

- The sugar-phosphate backbone is like the twisting handrails of the staircase, and the nitrogen-containing bases are like the steps that connect the railings to each other.
- Because A only pairs with T and C only pairs with G, the amount of A will be equal to the amount of T, and the amount of C will be equal to the amount of G.

SECTION 2. DNA REPLICATION

- the process by which DNA is copied during the cell cycle
- nucleus
- S stage
- so that every cell will have a complete set of DNA following cell division
- something that serves as a pattern
- ATCCATG
- Proteins help unzip the DNA strand, hold the strands apart, and bond nucleotides together.
- hydrogen bonds connecting base pairs
- because each molecule consists of one old strand and one new strand
- Enzymes unzip the helix.
- DNA polymerase binds nucleotides together to form new strands that are complementary to the original strands.
- Two identical DNA molecules result.
- DNA polymerase is an enzyme that makes DNA by forming bonds between nucleotides. The “-ase” ending signals that it is an enzyme. The first part of the word tells that the enzyme makes DNA by stringing together lots of monomers to form polymers.
- Replication is the process by which DNA is copied during the cell cycle. Accept any reasonable answer. Students may compare replication to making copies on a copier.
- Share the best bumper stickers with the class.

Mcdougal Biology Study Guide Chapter 29

Lei Shi



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