

Cells and Energy

Study Guide A**Answer Key****SECTION 1. CHEMICAL ENERGY AND ATP**

1. molecule; food molecules
2. high-energy; lower-energy
3. phosphate group
4. a; d; b; c
5. b; e
6. c; d
7. a; f
8. chemical energy; light energy
9. three; two
10. chemical; molecules

SECTION 2. OVERVIEW OF PHOTOSYNTHESIS

1. chemical energy
2. light energy; chemical energy
3. visible light
4. photosynthesis
5. stroma; grana
6. grana
7. Equation: $6\text{CO}_2 + 6\text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$
8. 6CO_2 and $6\text{H}_2\text{O}$
9. 6O_2 and $\text{C}_6\text{H}_{12}\text{O}_6$
10. b
11. require light; energy
12. do not require light; sugars
13. Refer to Figure 2.2 for a visual answer.
The four steps are: d, a, b, c
14. energy; sugars
15. green
16. independent

SECTION 3. PHOTOSYNTHESIS IN DETAIL

1. capture; transfer
2. molecules
3. ATP; NADPH
4. b, g, d, f, c, e, a
5. carbon dioxide
6. 1 b; 2 d; A a; 3 c; 4 c
7. proteins
8. synthesizes
9. with no beginning or end,

SECTION 4. OVERVIEW OF CELLULAR RESPIRATION

1. energy; oxygen
2. oxygen
3. mitochondria
4. glucose; ATP
5. b; c
6. a; c
7. Equation: $\text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2 \rightarrow 6\text{CO}_2 + 6\text{H}_2\text{O}$
8. 6O_2 and $\text{C}_6\text{H}_{12}\text{O}_6$
9. 6CO_2 and $6\text{H}_2\text{O}$
10. d
11. Refer to Figure 4.2 for a visual answer.
The four steps are: d, b, a, c
12. sugar
13. oxygen
14. break down

SECTION 5. CELLULAR RESPIRATION IN DETAIL

1. glucose
2. Pyruvate and NADH; ATP
3. two; four
4. c
5. c, b, a, d, e
6. inner
7. electrons; hydrogen ions
8. c, d, b, a
9. electrons

SECTION 6. FERMENTATION

1. ATP
2. electrons
3. hard exercise
4. oxygen
5. two
6. For a visual answer, refer to the lactic acid fermentation diagram in Section 6. The order of the four steps is: d, b, c, a
7. For a visual answer, refer to the alcoholic fermentation diagram in Section 6. The order of the four steps is: c, a, d, b

Holt Mcdougal Tennessee Biology Study Guide

B Lingard



Holt Mcdougal Tennessee Biology Study Guide:

Holt Mcdougal Tennessee Biology Study Guide Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Holt Mcdougal Tennessee Biology Study Guide**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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