

Chapter 9 Cellular Respiration

Section Review 9-2

Reviewing Key Concepts

Short Answer *On the lines provided, answer the following questions.*

1. How is pyruvic acid used in the Krebs cycle?

2. How are glycolysis and cellular respiration related?

3. What role do high-energy electrons play in the electron transport chain?

4. What are the reactants in cellular respiration? What are the products?

Reviewing Key Skills

Identification *On the lines provided, identify which phrase describes the following processes: cellular respiration or photosynthesis.*

- _____ 5. reactants are CO₂ and H₂O
- _____ 6. occurs only in plants, algae, and some microorganisms
- _____ 7. $6O_2 + C_6H_{12}O_6 \rightarrow 6CO_2 + 6H_2O$
- _____ 8. uses oxygen to release energy from food

9. **Comparing** How many ATP molecules are produced in glycolysis? In cellular respiration?

10. **Applying Concepts** Would a baseball player running to first base and a cross-country skier use the same or different pathways to release energy? Explain your answer.

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