

Section 9.3 Getting Energy to Make ATP

In your textbook, read about the cellular respiration and fermentation.

Fill in the names of the molecules to complete the glycolysis reaction. Use these choices: 2PGAL, 4ATP, glucose, 2ADP, 2 pyruvic acid, 2NADH + 2H⁺. Then answer the questions.



7. What happens to pyruvic acid before entering the citric acid cycle?

Pyruvic acid combines with coenzyme A to form acetyl-CoA.

8. What happens to the electrons carried by the NADH and FADH₂ molecules produced during the citric acid cycle?

The electrons are passed through an electron transport chain, releasing energy at each step.

9. During which stages of cellular respiration are ATP molecules formed?

During all three (glycolysis, citric acid cycle and electron transport chain)

10. Why is oxygen necessary for cellular respiration?

Oxygen is the final electron acceptor in the electron transport chain

11. How is fermentation different from cellular respiration?

Fermentation occurs when no oxygen is available. Fermentation produces fewer ATP molecules.

In your textbook, read about comparing photosynthesis and cellular respiration.

Answer the following question.

12. Describe two ways in which cellular respiration is the opposite of photosynthesis.

In cellular respiration, chemical energy is released, whereas in photosynthesis, chemical energy is stored. Products of cellular respiration, CO₂ and H₂O, are used in photosynthesis. Products of photosynthesis, glucose and O₂, are used in cellular respiration.

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