

## Quiz: Cellular Respiration

Read each question. Circle the letter of the correct answer.

1. What is the term for an organism that makes its own source of chemical energy?
  - A. chloroplast
  - B. decomposer
  - C. producer
  - D. protist
2. Which of these is a reactant in photosynthesis?
  - A. O<sub>2</sub>
  - B. CO<sub>2</sub>
  - C. COOH
  - D. C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>
3. Which phrase describes the function of mitochondria?
  - A. packages proteins
  - B. breaks down chemicals
  - C. supplies energy to the cell
  - D. fluid-filled sac used for storage
4. Through photosynthesis, plants convert energy from sunlight into \_\_\_\_\_.
  - A. light energy
  - B. thermal energy
  - C. chemical energy
  - D. mechanical energycarbon dioxide
5. Which of these statements best describes cellular respiration?
  - A. Sunlight and carbon dioxide are used to make ATP.
  - B. ATP and oxygen are used to make sugars and starches.
  - C. ATP and carbon dioxide are used to make ADP and water.
  - D. Carbon-based molecules from food and oxygen are used to make ATP.
6. A cell that requires a lot of energy might contain large numbers of \_\_\_\_\_.
  - A. vacuoles
  - B. lysosomes
  - C. mitochondria
  - D. chromosomes
7. What is the function of oxygen in cellular respiration?
  - A. to give a source of energy to the Krebs cycle
  - B. to provide oxygen for the production of
  - C. to deliver hydrogen ions to the electron transport chain
  - D. to pick up electrons at the end of the electron transport chain
8. Which of these statements is true of ATP?
  - A. It stores energy as glucose.
  - B. It stores energy for cellular processes.
  - C. It converts sunlight into chemical energy.
  - D. It contains less stored energy than ADP.

**9.** What happens to the sugars that are made during photosynthesis?

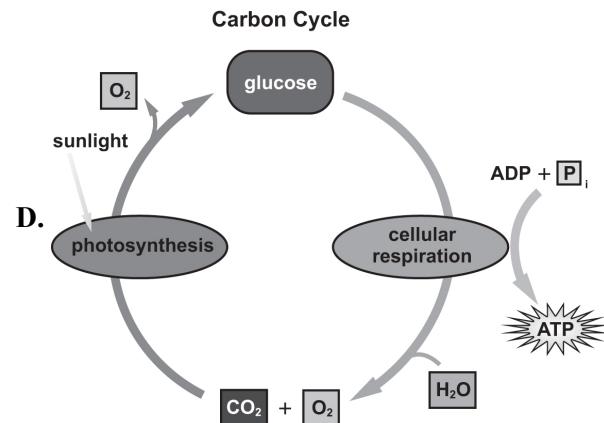
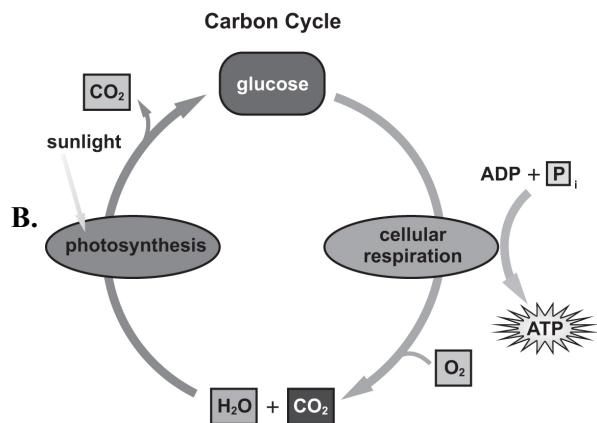
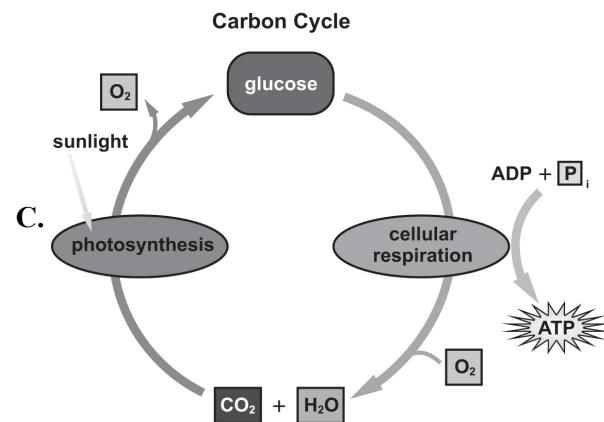
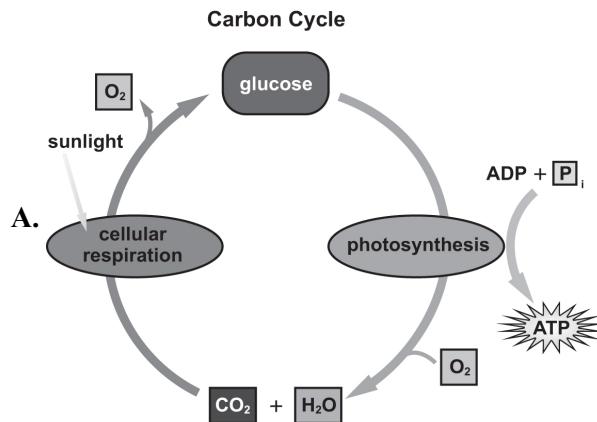
- A. They go back into the Calvin cycle.
- B. They make ATP by bonding together.
- C. They can be used for cellular respiration.
- D. They move directly into an electron transport chain.

**10.** Complete this comparison statement.

photosynthesis : oxygen : \_\_\_\_\_ :

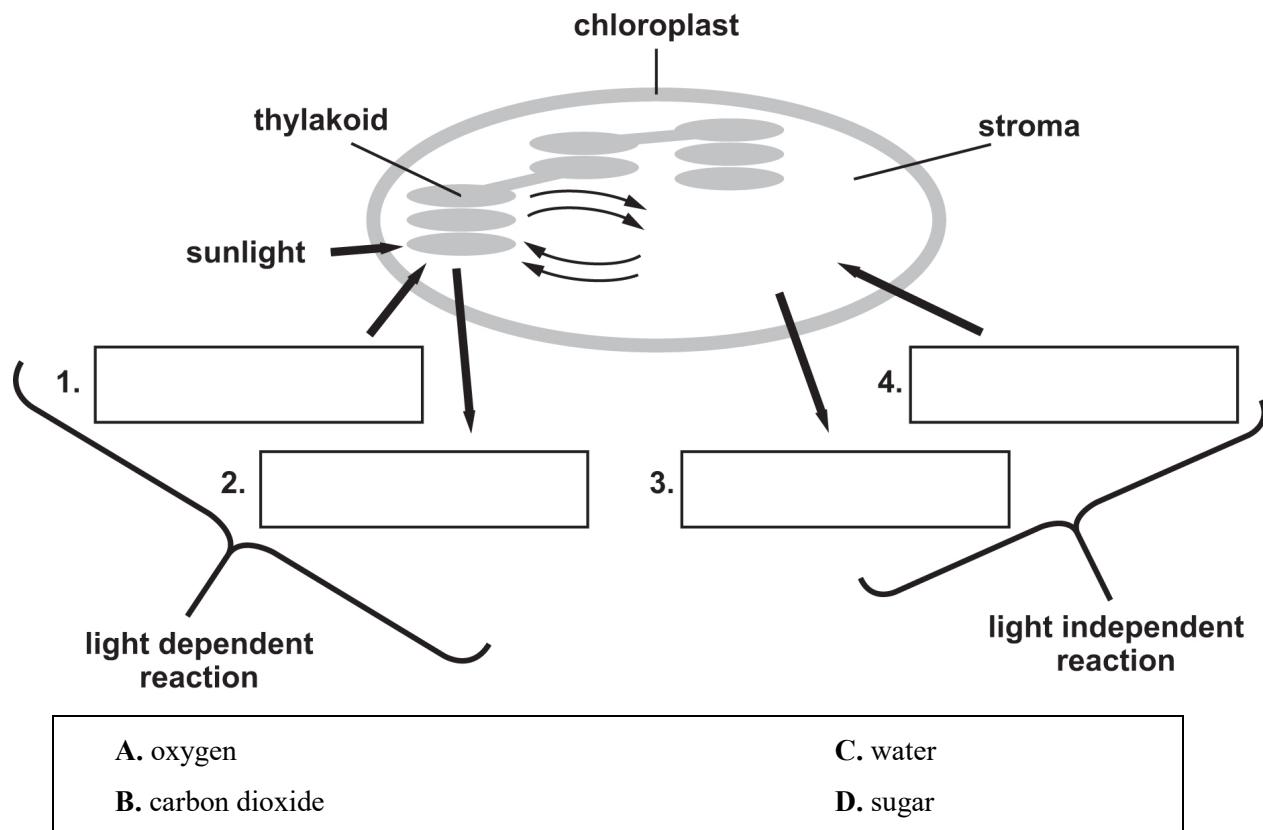
- A. oxygen : carbon dioxide
- B. cellular respiration : oxygen
- C. cellular respiration : enzymes
- D. cellular respiration : carbon dioxide

**12.** Which diagram shows the relationship between the reactants and products of photosynthesis and cellular respiration?



**Read each statement. Write your answer on the lines.**

13. The process of photosynthesis includes multiple steps. Write one letter in each box in the diagram to create a model of the process of photosynthesis.



14. What two inputs are needed for cellular respiration?

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15. The relationship between photosynthesis and cellular respiration is usually described as a cycle. Explain briefly.

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