

Cell Processes and Energy ▪ *Guided Reading and Study*

Respiration

In this section, you will learn how cells get energy from food.

Use Target Reading Skills

Before you read, write a definition of respiration in the graphic organizer. As you read, revise your definition based on what you learn.

What You Know
1. Definition of respiration:

What You Learned

What Is Respiration?

1. What happens during respiration?

2. Cells store energy in the form of _____.

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Respiration *(continued)*

3. How do cells "withdraw" energy?

4. Is the following sentence true or false? Respiration that takes place inside of cells is the same as breathing air in and out of the lungs.

5. Use the table below to list the raw materials and products of respiration.

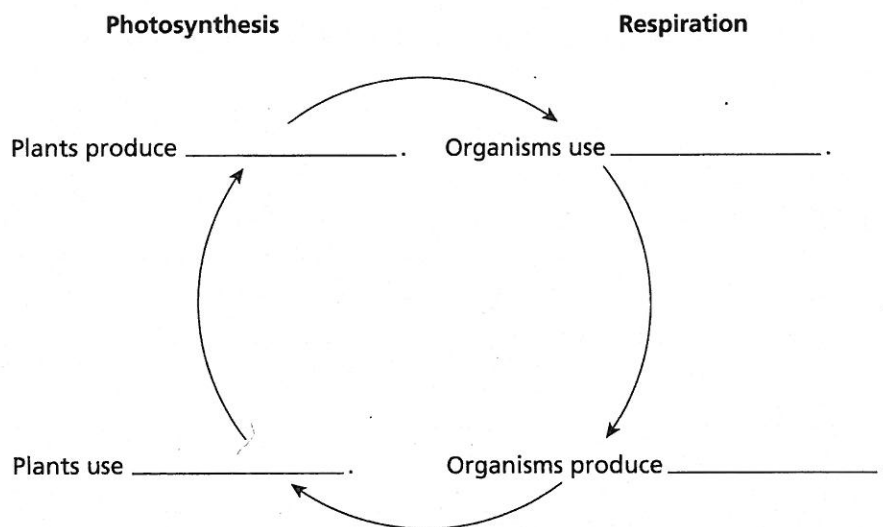
Respiration	
Raw Materials	Products

Match the events in respiration with the stages in which they occur. The items in the second column may be used more than once.

- | Event in Respiration | Stage of Process |
|--|---------------------------------|
| ___ 6. Takes place in the mitochondria | a. first stage |
| ___ 7. Takes place in the cytoplasm | b. second stage |
| ___ 8. Oxygen is involved. | c. both first and second stages |
| ___ 9. Energy is released. | |
| ___ 10. Glucose molecules are broken down. | |

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11. Complete the cycle diagram below, which describes the relationship between photosynthesis and respiration.



Fermentation

12. What is fermentation?

13. Is the following sentence true or false? Fermentation releases more energy than respiration. _____

14. List the two types of fermentation and tell where each takes place.

a. _____

b. _____

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