

Chapter 7 Active Reading Guide

Cellular Respiration and Fermentation

Overview: Before getting involved with the details of cellular respiration and photosynthesis, take a second to look at the big picture (Figure 7.2). Photosynthesis and cellular respiration are key ecological concepts involved with energy flow.

Section 1

1. Explain the difference between *fermentation* and *cellular respiration*.

Fermentation is a partial degradation of sugars or other organic fuel that occurs without the use of oxygen.
Cellular respiration includes both aerobic and anaerobic processes.

2. Give the formula (with names) for the catabolic degradation of glucose by cellular respiration.



3. Both cellular respiration and photosynthesis are *redox reactions*. In redox, reactions pay attention to the flow of electrons. What is the difference between oxidation and reduction?

Oxidation is the loss of electrons from one substance, while reduction is the addition of electrons to another substance, thereby reducing the amount of positive charge on that atom.

4. The following is a generalized formula for a redox reaction. Draw an arrow showing which component (X or Y) is oxidized and which is reduced.



Xe⁻ is the reducing agent in this reaction, and Y is the oxidizing agent.

5. When compounds lose electrons, they lose energy; when compounds gain electrons, they gain energy.
6. In cellular respiration, electrons are not transferred directly from glucose to oxygen. Following the movement of hydrogens allows you to follow the flow of electrons. The hydrogens are held in the cell temporarily by what electron carrier? What *electron carrier* is hydrogen transferred to first?

An electron carrier, the coenzyme NAD⁺.

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