

Biology for the AP® Course: Active Reading Guide
Unit 3 Cellular Energetics
Module 17 Cellular Respiration I: Overview

17.1 Cellular respiration harnesses energy of carbohydrates and other fuel molecules

1. Define cellular respiration.

series of chemical reactions in which organic molecules are oxidized to carbon dioxide, converting the energy stored in organic molecules to ATP

2. Discuss the importance of converting organic molecules into ATP.

can be used to power many of the chemical reactions that occur all of the time in cells

3. Differentiate aerobic respiration from anaerobic respiration.

Cellular respiration that occurs in the presence of oxygen is known as aerobic respiration. Cellular respiration that occurs in the absence of oxygen is known as anaerobic respiration

4. Write the reaction for cellular respiration.



5. Write a description using words of the equation for cellular respiration.

in cellular respiration, glucose is oxidized to carbon dioxide, and, at the same time, oxygen is reduced to water

6. Explain how the cellular respiration reaction provides energy.

Cellular respiration releases a large amount of free energy — energy available to do work — because the sum of the potential energy in all of the chemical bonds of the reactants (glucose and oxygen) is higher than that of the products (carbon dioxide and water).

7. Identify the maximum amount of free energy released during cellular respiration.

The maximum amount of free energy released during cellular respiration is -686 kcal per mole of glucose

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Ian Pickup



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