

Chapter 9

Cellular Respiration

Section 9–1 Chemical Pathways (pages 221–225)

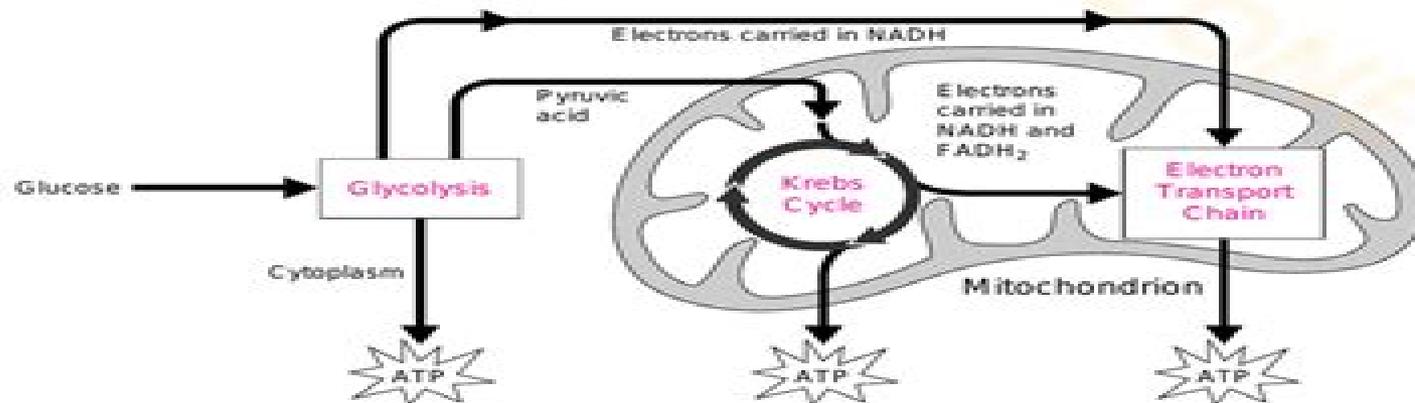
This section explains what cellular respiration is. It also describes what happens during a process called glycolysis and describes two types of a process called fermentation.

Chemical Energy and Food (page 221)

1. What is a calorie? It is the amount of energy needed to raise the temperature of 1 gram of water 1 Celsius degree.
2. How many calories make up 1 Calorie? 1000
3. Cellular respiration begins with a pathway called glycolysis.
4. Is the following sentence true or false? Glycolysis releases a great amount of energy. false

Overview of Cellular Respiration (page 222)

5. What is cellular respiration? It is the process that releases energy by breaking down food molecules in the presence of oxygen.
6. What is the equation for cellular respiration, using chemical formulas? $6O_2 + C_6H_{12}O_6 \rightarrow 6CO_2 + 6H_2O + \text{Energy}$
7. What would be the problem if cellular respiration took place in just one step? All the energy from glucose would be released at once, and most of it would be lost in the form of light and heat.
8. Label the three main stages of cellular respiration on the illustration of the complete process.



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Chapter 9 Cellular Respiration Worksheet Answer Key

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