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Chapter 9 Cellular Respiration

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



Key Concepts

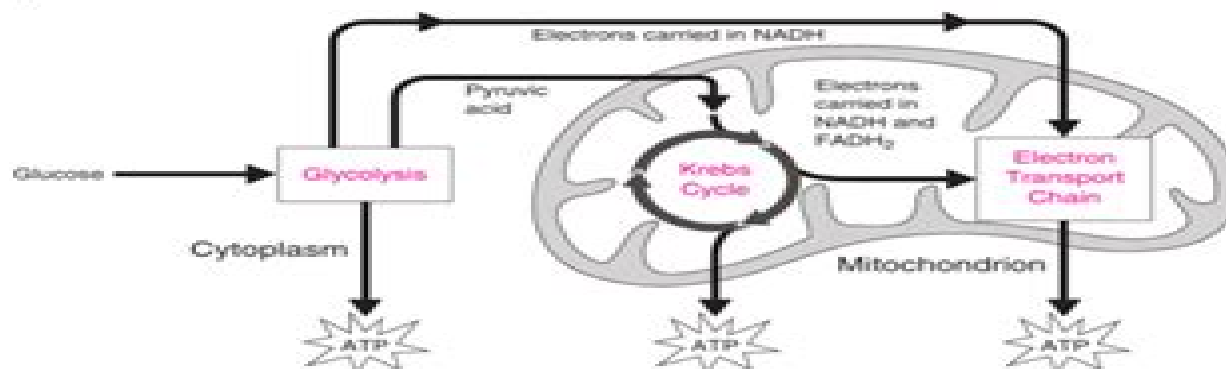
- What is cellular respiration?
- What happens during the process of glycolysis?
- What are the two main types of fermentation?

Chemical Energy and Food (page 221)

1. What is a caloric? It is the amount of energy needed to raise the temperature of 1 gram of water 1 degree Celsius.
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. Label the three main stages of cellular respiration on the illustration of the complete process.



Section 9 Chemical Pathways Answer Key

John Darabaris



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