

Chapter 9 Cellular Respiration

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

Key Concepts

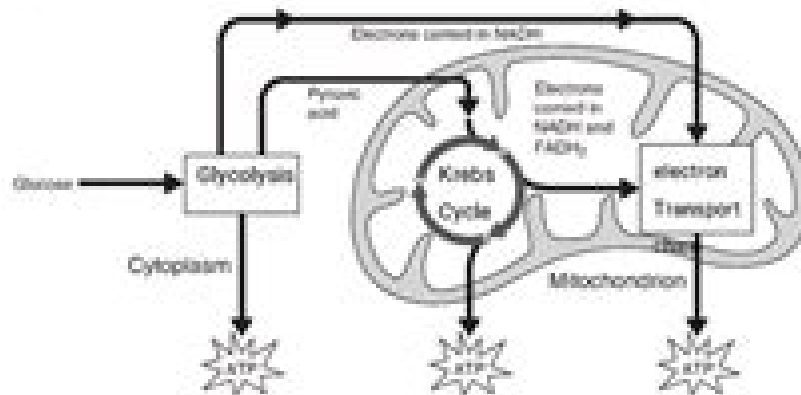
- What is cellular respiration?
- What happens during the process of glycolysis?
- What are the two main types of fermentation?

Chemical Energy and Food (page 221)

1. What is a calorie? 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.



8. 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.

9. Where does glycolysis take place? It takes place in the cytoplasm.

10. Where do the Krebs cycle and electron transport take place?
They take place inside the mitochondria.

Glycolysis (page 223)

11. What is glycolysis? It is the process in which one molecule of glucose is broken in half, producing two molecules of pyruvic acid, a 3-carbon compound.
12. How does the cell get glycolysis going?
It uses the energy of 2 molecules of ATP
13. If the cell uses 2 ATP molecules at the beginning of glycolysis, how does it end up with a net gain of 2 ATP molecules?
It uses the energy of 2 molecules of ATP. ATP molecules have been produced.
14. What is NAD⁺? It is the electron carrier nicotinamide adenine dinucleotide.
15. What is the function of NAD⁺ in glycolysis?
One of the reactions of glycolysis removes 4 high-energy electrons and passes them to NAD⁺, which becomes NADH and holds the electrons until they can be transferred to other molecules.
16. Why can glycolysis supply energy to cells when oxygen is not available?
It does not require oxygen.
17. What problem does a cell have when it generates large amounts of ATP from glycolysis?
In just a few seconds, all of the cell's available NAD⁺ are filled with electrons.

Section 9 1 Chemical Pathways Answer Key

Zhe Xu



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