

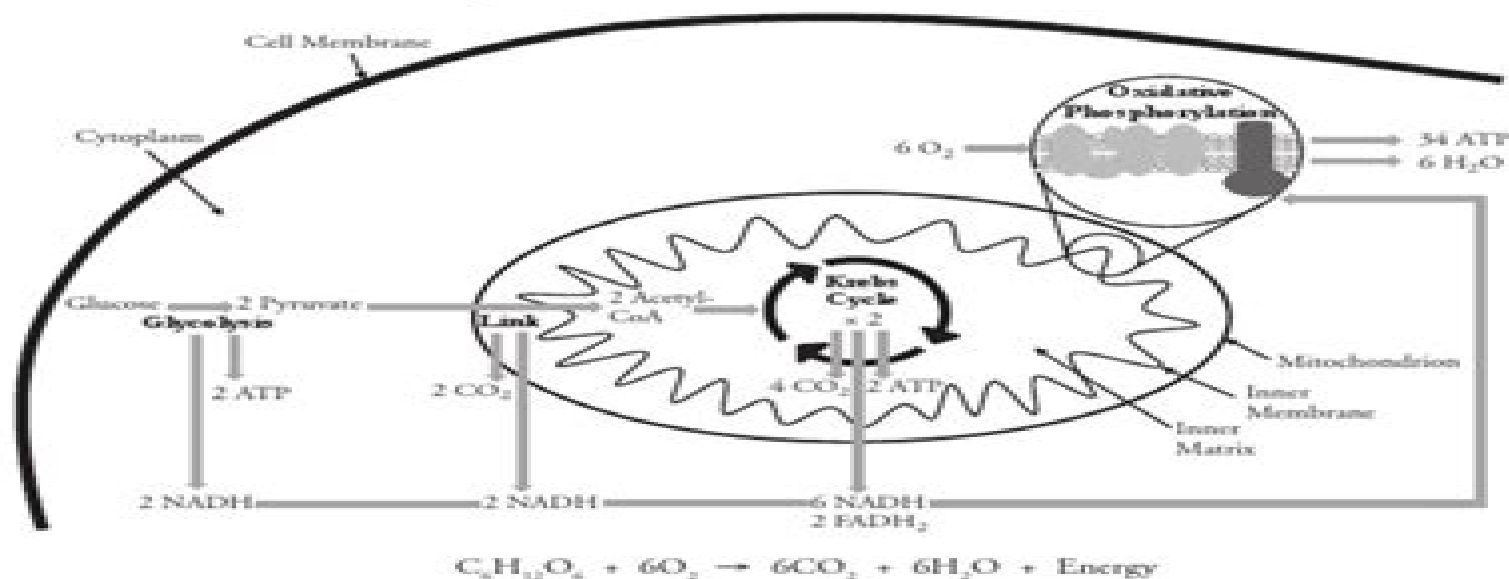
Cellular Respiration—An Overview

What are the phases of cellular respiration?

Why?

All cells need energy all the time, and their primary source of energy is ATP. The methods cells use to make ATP vary depending on the availability of oxygen and their biological make-up. In many cases the cells are in an oxygen-rich environment. For example, as you sit and read this sentence, you are breathing in oxygen, which is then carried throughout your body by red blood cells. But, some cells grow in environments without oxygen (yeast in wine-making or the bacteria that cause botulism in canned food), and occasionally animal cells must function without sufficient oxygen (as in running sprints). In this activity you will begin to look at the aerobic and anaerobic processes that are used by all organisms to produce ATP.

Model 1 – Cellular Respiration



1. According to Model 1, what are the reactants of cellular respiration?
2. According to Model 1, what are the products of cellular respiration?

Ap Bio Cell Respiration Pogil Answer Key

Deborah T. Goldberg



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Conclusion An excerpt from the book Anaerobic respiration is how cells make energy when as you may have guessed from the name there is no available oxygen In fact for this process there is neither oxygen nor mitochondria present The two processes that allow this to work are those of glycolysis and fermentation In cellular respiration what we normally see is glucose breaks down to pyruvate and from this process we net 2 ATP Next the pyruvate will go into the mitochondria and enter the Krebs cycle In the process of being converted to acetyl CoA CO₂ is given off and another 2 ATP are made This energy is stored in NADH and FADH₂ Their electrons move into the electron transport chain which will move to oxygen to transform the product to water In this 23 34 ATP are made Tags ap biology ap bio ap biology review and study guide ap biology exam learnerator

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