

Cellular Respiration POGIL | questions and answers | 100% verified | updated 2024/2025

What is represented by the hexagon? Glucose (6C)

How many carbon atoms (C) are in one molecule of glucose? 6

How many carbon atoms (C) are in one molecule of pyruvic acid? 3

In the process of glycolysis, what happens to glucose after it crosses the cell membrane into the cytoplasm of the cell? It splits into 2 pyruvic acids when it crossed.

Thinking about the number of carbon atoms in glucose and in pyruvic acid, explain why there is one molecule of glucose on the left side of the arrow and two molecules of pyruvic acid on the right side of the arrow. There is only 3 carbon in pyruvic acid, so since glucose had 6 carbon, it split into 2 pyruvics making 6 altogether.

How many ATP molecules are produced during glycolysis? 2

Hydrogen-carrying molecules are also produced during glycolysis. What is the symbols of these hydrogen-carrying molecules? NADPH

Does glycolysis occur inside or outside the mitochondria? Outside

According to Model 2, what happens to pyruvic acid during the Krebs's cycle? It turns into 3 molecules of carbon dioxide.

According to Model 2, where does the change identified in the previous question occur? Mitochondrial matrix.

Note the number of atoms of carbon in pyruvic acid and explain why three molecules of carbon dioxide are produced. Each pyruvic acid molecule contains 3 carbon atoms and each carbon dioxide molecule contains only 1. $3 \times 1 = 3$

Considering the glycolysis produces 2 pyruvic acid molecules per glucose molecule, how many total CO₂ molecules will be produced from the complete breakdown of each glucose molecule? Show a mathematical equation to support your answer. 6 because each pyruvic acid has 3 carbons and 2 pyruvic molecules are produced. ($3 \times 2 = 6$)

What 2 hydrogen carrying molecules are formed during the Krebs's cycle? NADH, FADH₂

Glycolysis ATP-2 NADH-2 FADH₂-0

Pogil Cellular Respiration Answers

Lei Shi

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Cellular Respiration A. Malcolm Campbell, Christopher J. Paradise, 2016-03-28 What happens to a meal after it is eaten Food consists primarily of lipids proteins and carbohydrates sugars How do cells in the body process food once it is eaten and turned it into a form of energy that other cells can use This book examines some of the classic experimental data that revealed how cells break down food to extract the energy Metabolism of food is regulated so that energy extraction increases when needed and slows down when not needed This type of self regulation is all part of the complex web of enzymes that convert food into energy Adding to this complexity is that all food eventually winds up as two carbon bits that are all processed the same way This book will also reveal why animals breathe oxygen and how that relates to the end of the energy extraction process and oxygen's only role in the body Rather than look at all the details this book takes a wider view and shows how cellular respiration is self regulating

Cellular Respiration, 1996 **Cellular Respiration. With ...**

Diagrams Norman Urquhart Meldrum, 1934 **Understanding Cellular Respiration** Catherine Jean Songer, 1993

Cellular Respiration Norman Urquhart Meldrum, 1934 *Cell Functions* Michael Carter, Lifeliqe, 2019 This 105 minute lesson plan explains how cellular respiration works and how it relates to photosynthesis **Cell Respiration** William Owen James, 1971 **Cellular Respiration** Norval McCord, 1974 *Cellular Respiration: Death and Destruction with a Side of*

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