

**Study Guide****CHAPTER 8****Section 3: Cellular Respiration**

In your textbook, read about cellular respiration and glycolysis.

Use each of the terms below only once to complete the passage.

aerobic    anaerobic    ATP    cellular respiration    cytoplasma    energy  
 glucose    glycolysis    mitochondria    NADH    oxygen

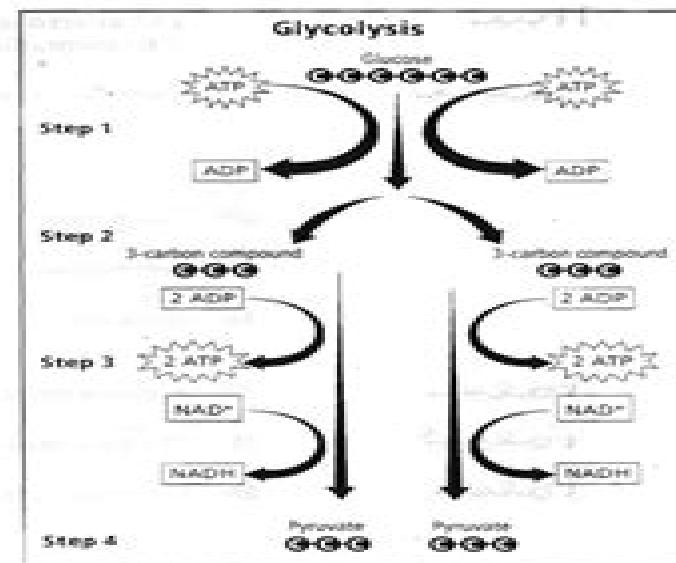
Organisms obtain energy in a process called (1) cellular respiration. This process harvests electrons from carbon compounds, such as (2) glucose, and uses that energy to make (3) ATP. ATP is used to provide (4) energy for cells to do work. In (5) glycolysis, glucose is broken down into pyruvate. Glycolysis is a(n) (6) anaerobic process because it does not require oxygen. Glycolysis takes place in the (7) cytoplasm. Two molecules of ATP and two molecules of (8) NADH are formed for every glucose molecule that is broken down. (9) Aerobic respiration takes place in the (10) mitochondria. It is aerobic because the process requires (11) oxygen.

Refer to the diagram of glycolysis. Label the steps in the description to match the diagram.

12. Step 4. Each three-carbon compound is converted into a three-carbon pyruvate.
13. Step 2. A six-carbon compound is broken down into two three-carbon compounds.
14. Step 1. Phosphate groups from two ATP molecules are transferred to a glucose molecule.
15. Step 3. Two NADH molecules and four ATP molecules are produced.

Respond to each question.

16. Interpret How many total ATP molecules are produced from the glycolysis of one six-carbon glucose?  
2 net ATP, 4 are produced.
17. Explain Why is there a net gain of only two ATP molecules in the glycolysis of one six-carbon glucose?  
4 are produced, but 2 are used to for ADP + P; so a net gain of 2 ATP



# Cellular Respiration Study Guide Questions With Answers

**David J. Cotter**

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**Study Guide** Johnson,Judith

Stewart,2000-12 Designed specifically for the one semester human biology course Contains traditional chapter review and

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practical tools for integrating artificial intelligence into their K 12 and higher education classrooms This user friendly book

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real teaching contexts readers will learn how to set clear expectations for AI use and build classroom cultures where

students engage with AI in thoughtful and practical ways Transforming Teaching With Generative AI offers teachers teacher educators instructional designers and academic leaders a clear framework for using AI with purpose and on their own terms Book Features Offers a real world approach to using AI in education including how to think critically about ethical challenges while staying focused on student learning Uses clear explanations of complex topics from large language models to writing successful AI prompts Provides guidance for using AI to craft assignments assessments and personalize student learning Aligns new tools with existing teaching goals and values including connecting AI integration to trusted models like TPACK and TILT Includes user friendly features for busy educators such as sample prompts checklists and discussion questions that support reflection and ease of implementation     *Study Guide to Accompany Biology: Life on Earth by Teresa Audesirk and Gerald Audesirk David J. Cotter, 1986*

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