

# 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~~   ~~cytoplasm~~   ~~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



# Cell Respiration Study Guide Answers

**R Pring**



## **Cell Respiration Study Guide Answers:**

The book delves into Cell Respiration Study Guide Answers. Cell Respiration Study Guide Answers is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Cell Respiration Study Guide Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Cell Respiration Study Guide Answers
    - Chapter 2: Essential Elements of Cell Respiration Study Guide Answers
    - Chapter 3: Cell Respiration Study Guide Answers in Everyday Life
    - Chapter 4: Cell Respiration Study Guide Answers in Specific Contexts
    - Chapter 5: Conclusion
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  4. In chapter 3, this book will examine the practical applications of Cell Respiration Study Guide Answers in daily life. The third chapter will showcase real-world examples of how Cell Respiration Study Guide Answers can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of Cell Respiration Study Guide Answers in specific contexts. This chapter will explore how Cell Respiration Study Guide Answers is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Cell Respiration Study Guide Answers. This chapter will summarize the key points that have been discussed throughout the book.
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