

Photosynthesis and Cellular Respiration

Directions: Read the passage and complete the class activity about photosynthesis and cellular respiration. Use the terms in the word bank.

Word Bank

chloroplast	oxygen	mitochondria	relationship	
balanced	glucose	ATP	converted	carbon dioxide
energy	respiration	sunlight	sugar	

How Do Plants Use the Energy from the Sun?

Plants make _____ by using energy from _____. The plant transforms _____ (CO_2) from the air and water (H_2O) taken from the ground by roots into _____ ($\text{C}_6\text{H}_{12}\text{O}_6$) and _____ (O_2). This unique process is called **photosynthesis**. The process itself occurs in the _____ of the plant cell. Plants can take in CO_2 through tiny openings called **stomata** on their leaves. Guard cells on the leaves open and close the stomata.

Cellular _____ is when a plant and animal cell breaks down simple sugars into CO_2 and water. This process releases energy in the form of adenosine triphosphate (ATP). The _____ is used for all processes within a cell that need _____. Think of it as an energy bar for the cell. The process of cellular respiration occurs in the _____.

In science, a chemical reaction is a process in which one or more substances, the **reactants**, are converted to one or more different substances, which are **products** and products. Think of reactants as the ingredients in a recipe, and the product is the meal. Reactants are substances that start the chemical reaction. A product is a substance, but one that is produced at the end of the reaction. The _____ between reactants and products in a chemical reaction can be written as follows:

Key Points

The arrow (\rightarrow) represents the direction in which the reaction occurs. Please note that sometimes, the reaction can occur in the opposite direction.



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Photosynthesis Cellular Respiration Cloze

Lingsheng Yao



Photosynthesis Cellular Respiration Cloze:

The book delves into Photosynthesis Cellular Respiration Cloze. Photosynthesis Cellular Respiration Cloze is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Photosynthesis Cellular Respiration Cloze, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Photosynthesis Cellular Respiration Cloze
 - Chapter 2: Essential Elements of Photosynthesis Cellular Respiration Cloze
 - Chapter 3: Photosynthesis Cellular Respiration Cloze in Everyday Life
 - Chapter 4: Photosynthesis Cellular Respiration Cloze in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Photosynthesis Cellular Respiration Cloze. The first chapter will explore what Photosynthesis Cellular Respiration Cloze is, why Photosynthesis Cellular Respiration Cloze is vital, and how to effectively learn about Photosynthesis Cellular Respiration Cloze.
 3. In chapter 2, the author will delve into the foundational concepts of Photosynthesis Cellular Respiration Cloze. This chapter will elucidate the essential principles that need to be understood to grasp Photosynthesis Cellular Respiration Cloze in its entirety.
 4. In chapter 3, this book will examine the practical applications of Photosynthesis Cellular Respiration Cloze in daily life. This chapter will showcase real-world examples of how Photosynthesis Cellular Respiration Cloze can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Photosynthesis Cellular Respiration Cloze in specific contexts. The fourth chapter will explore how Photosynthesis Cellular Respiration Cloze is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Photosynthesis Cellular Respiration Cloze. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Photosynthesis Cellular Respiration Cloze.

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Photosynthesis Cellular Respiration Cloze Introduction

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