

Chapter 4: Photosynthesis/Cell Respiration Study Guide

Name: _____

Date: _____

1. What is the primary source of energy for cells?
ATP- from carbohydrates
2. What are three types of carbon based molecules from which we can get energy? AND next to it write how much ATP can come from that molecule.
Carbohydrates - 36 ATP
Lipids -146 ATP
Protein usually broken down to amino acids (but sometimes 36 ATP)
3. ATP transfers energy from food to the _____.
Cellular process
4. Describe the relationship between bonds and energy.
Bonds break= release energy
Bonds form= store energy
5. Describe ATP, ADP, and AMP in terms of energy and structure (how many phosphates?).
ATP= fully charged (3 phosphates)
ADP= half charged (2 phosphates)
AMP = no charge (1 phosphate)
6. Compare and contrast Chemosynthesis and photosynthesis using a T-chart. Make sure you also include the organisms that carry out each process.
Both are ways to make organic compounds for energy
Chemosynthesis uses energy from chemical compounds to make their food.
- Organisms found near ocean sea vents
Photosynthesis uses energy from the sun to make their food - plants
7. Describe the difference between an autotroph and heterotroph.
Autotroph- makes own food through photosynthesis
Heterotroph- must consume food and break down through cellular respiration
8. How do producers get energy?
They are autotrophs and they get energy from the food they make through photosynthesis.

Energy In A Cell Answer Key

N Noddings



Energy In A Cell Answer Key:

This book delves into Energy In A Cell Answer Key. Energy In A Cell Answer Key is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Energy In A Cell Answer Key, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Energy In A Cell Answer Key
- Chapter 2: Essential Elements of Energy In A Cell Answer Key
- Chapter 3: Energy In A Cell Answer Key in Everyday Life
- Chapter 4: Energy In A Cell Answer Key in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Energy In A Cell Answer Key. This chapter will explore what Energy In A Cell Answer Key is, why Energy In A Cell Answer Key is vital, and how to effectively learn about Energy In A Cell Answer Key.
3. In chapter 2, this book will delve into the foundational concepts of Energy In A Cell Answer Key. The second chapter will elucidate the essential principles that must be understood to grasp Energy In A Cell Answer Key in its entirety.
4. In chapter 3, the author will examine the practical applications of Energy In A Cell Answer Key in daily life. This chapter will showcase real-world examples of how Energy In A Cell Answer Key can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Energy In A Cell Answer Key in specific contexts. This chapter will explore how Energy In A Cell Answer Key is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Energy In A Cell Answer Key. 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 Energy In A Cell Answer Key.

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Energy In A Cell Answer Key Introduction

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