

AP Biology- Cellular Respiration Pre-Lab

Purpose:

- To determine the how the rate of respiration differs in germinating and non-germinating seeds.

Background: Answer the following questions. They are to be included in your lab report in paragraph form. Do not forget to include your "Works Cited."

What is cellular respiration? Where does it occur in aerobic organisms (what organelle)? What are the reactants and products of aerobic cellular respiration?

Also include:

There are three ways cellular respiration could be measured. The consumption of O₂ (how many moles of O₂ are consumed in cellular respiration). Production of CO₂ (how many moles of CO₂ are produced in cellular respiration?) and the release of energy during cellular respiration. In this lab, the volume of O₂ consumed by germinating and non-germinating peas will be measured.

PV=nRT is the inert gas law. P is the pressure of the gas. V is the volume of the gas. n is the number of molecules of gas. R is the gas constant. T is the temperature of the gas in degrees K. This law tells us several important things about gases. If temperature and pressure are kept constant then the volume of the gas is directly proportional to the number of molecules of the gas. If the temperature and volume remain constant, then the pressure of the gas changes in direct proportion to the number of molecules of gas. If the number of gas molecules and the temperature remain constant, then the pressure is inversely proportional to the volume. IF the temperature changes and the number of gas molecules is kept constant, then either pressure or volume or both will change in direct proportion to the temperature.

In this lab, CO₂ , made during cellular respiration will be removed by potassium hydroxide (KOH) and will make potassium carbonate (K₂CO₃). Carbon dioxide is removed so the change in the volume of gas in the respirometer will be directly proportional to the amount of oxygen that is consumed. In the experiment, water will move toward the region of lower pressure. During respiration, oxygen will be consumed and its volume will be reduced to a solid. The result is a decrease in gas volume within the tube, and a related decrease in pressure in the tube. The respirometer with just the non-germinating peas will allow changes in volume due to changes in atmospheric pressure or temperature changes.

Hypothesis:

Comparison of the rate of respiration in the germinating peas verses the non-germinating peas.

Ap Cellular Respiration Lab Answers

The Princeton Review



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This book delves into Ap Cellular Respiration Lab Answers. Ap Cellular Respiration Lab Answers is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Ap Cellular Respiration Lab Answers, encompassing both the fundamentals and more intricate discussions.

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

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Ap Cellular Respiration Lab Answers.

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