

Cellular Respiration Lab

Background:

Respiration refers to two different but related processes: one is the active acquisition of gaseous oxygen by an organism and the other is the release of energy from organic compounds within a cell. The latter process, a chemical oxidation, is more commonly referred to as cellular respiration.

During this laboratory investigation you will measure the rate of cellular respiration under different conditions. You will experimentally answer the following three questions:

- “Does cellular respiration occur in living pea seeds?”
- “Does cellular respiration occur at the same rate for germinating and dormant pea seeds?”
- “Does cellular respiration occur at the same rate for pea seeds at 10°C and 25°C?”

The chemical equation for the complete oxidation of glucose is shown below. Note that oxygen is required for this energy-releasing process to occur.



The chemical formula gives some clues as to how you might study the rate of cellular respiration. You could measure the consumption of oxygen (i.e., how many molecules of oxygen are consumed when 1 molecule of glucose is oxidized?), the production of carbon dioxide (i.e., how many molecules of carbon dioxide are produced when 1 molecule of glucose is oxidized?), or the consumption of oxygen and the release of carbon dioxide (i.e., how many molecules of carbon dioxide are produced for every molecule of oxygen consumed?).

In this laboratory exercise, you will measure the relative volume of oxygen consumed by germinating and nongerminating pea seeds at two different temperatures over time.

In order to measure the volume of oxygen consumed over time you must eliminate all the carbon dioxide produced by the reaction. In this experiment, the carbon dioxide will be removed by reacting with potassium hydroxide (KOH) to form solid potassium carbonate (K₂CO₃).



Therefore, if the temperature and volume in the experimental apparatus remain constant, any gas volume change will be due to the amount of oxygen consumed. A control apparatus will be used to detect any experimental results due to atmospheric pressure change or temperature change.

Lab 5 Cellular Respiration Answers

SB Merriam



Lab 5 Cellular Respiration Answers:

Lab 5 Cellular Respiration Answers Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has be more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Lab 5 Cellular Respiration Answers**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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