

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

Ying Liu



Ap Cellular Respiration Lab Answers:

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The 5 Step Plan

- Step 1: Set up your study plan with three model schedules.
- Step 2: Determine your readiness with an AP-style Diagnostic Exam.
- Step 3: Develop the strategies that will give you the edge on test day.
- Step 4: Review the terms and concepts you need to achieve your highest score.
- Step 5: Build your confidence with full-length practice exams.

Ap Cellular Respiration Lab Answers Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Ap Cellular Respiration Lab Answers**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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