

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

Katrin Zwirgmaier



Ap Cellular Respiration Lab Answers:

Unveiling the Magic of Words: A Review of "**Ap Cellular Respiration Lab Answers**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Ap Cellular Respiration Lab Answers**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound affect on the souls of its readers.

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