AP Biology- Cellular Respiration Pre-Lab

Purpose:

 To determine the how the rate of respiration differs in germinating and nongerminating 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

Phillip E. Pack

Ap Cellular Respiration Lab Answers:

Cracking the AP Biology Exam Kim Magloire, Princeton Review (Firm), 2004 This updated series by Princeton Review helps students pass the challenging Advance Placement Test with targeted study for each exam of the series Biology 2016 Linda Brooke Stabler, Mark Metz, Allison Wilkes, 2015-08-04 The Advanced Placement exam preparation guide that delivers 75 years of proven Kaplan experience and features exclusive strategies practice and review to help students ace the NEW AP Biology exam Students spend the school year preparing for the AP Biology exam Now it s time to reap the rewards money saving college credit advanced placement or an admissions edge However achieving a top score on the AP Biology exam requires more than knowing the material students need to get comfortable with the test format itself prepare for pitfalls and arm themselves with foolproof strategies That s where the Kaplan plan has the clear advantage Kaplan s AP Biology 2016 has been updated for the NEW exam and contains many essential and unique features to improve test scores including 2 full length practice tests and a full length diagnostic test to identify target areas for score improvement Detailed answer explanations Tips and strategies for scoring higher from expert AP teachers and students who scored a perfect 5 on the exam End of chapter guizzes Targeted review of the most up to date content and key information organized by Big Idea that is specific to the revised AP Biology exam Kaplan's AP Biology 2016 provides students with everything they need to improve their scores guaranteed Kaplan's Higher Score guarantee provides security that no other test preparation guide on the market can match Kaplan has helped more than three million students to prepare for standardized tests We invest more than 4.5 million annually in research and support for our products We know that our test taking techniques and strategies work and our materials are completely up to date for the NEW AP Biology exam Kaplan's AP Biology 2016 is the must have preparation tool for every student looking to do better on the NEW AP Biology test AP Biology Premium, 2025: Prep Book with 6 Practice Tests + Comprehensive Review + Online Practice Barron's Educational Series, Mary Wuerth, 2024-07-02 Be prepared for exam day with Barron's Trusted content from AP experts Barron's AP Biology Premium 2025 includes in depth content review and practice It s the only book you ll need to be prepared for exam day Written by Experienced Educators Learn from Barron s all content is written and reviewed by AP experts Build your understanding with comprehensive review tailored to the most recent exam Get a leg up with tips strategies and study advice for exam day it s like having a trusted tutor by your side Be Confident on Exam Day Sharpen your test taking skills with 6 full length practice tests 2 in the book and 4 more online plus detailed answer explanations for all questions Strengthen your knowledge with in depth review covering all units on the AP Biology exam Reinforce your learning with multiple choice and short and long free response practice questions in each chapter that reflect actual exam questions in content and format Expand your understanding with a review of the major statistical tests and lab experiments that will help enhance your scientific thinking skills Robust Online Practice Continue your practice with 4 full length practice tests on Barron's Online Learning Hub Simulate the exam

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