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Ap biology potato lab report

Biology Honors Lab Report Write-up Format

The following is the format you need to follow to **HAND WRITE** your lab reports. Remember, this is your guide so, do not lose it.

Your name Per. Group partners (last line)

YOUR ORIGINAL TITLE:

I. INTRODUCTION:

This is a paragraph that discusses background information that relates to the lab concepts. DO NOT simply copy the introduction on your lab instruction sheet. You may select some facts to incorporate from the provided information, but overall it should be a summary of the topic in your own words. The rest of the information for your introduction should come from class discussions, personal experience (if any) and notes.

II. PROBLEM:

The Problem is written in the form of a question (example: How....? What....? Why...?). Be sure to include the dependent and independent variables in your answer.

III. HYPOTHESIS:

This educated guess is written in the form of a statement that starts with "I think..." or If ______ then..." It should attempt to answer the problem statement above in addition to why you chose your particular hypothesis.

IV. PROCEDURE/MATERIALS:

Often this section will not be written out - be sure to listen to Ms. Bolton when the lab is assigned. If you do need to write this, it should be a clearly written, abbreviated paragraph in your own words. In addition, it should be accurately stated so that someone can understand what was done and repeat the experiment. Finally, this must include the materials used.

V. DATA/OBSERVAIONS:

This will include all data collected in the form of the charts, tables, drawings, diagrams, and/or graphs to explain or demonstrate your observations in the lab. Be sure that your graphs, tables, figures, or diagrams are neatly, completely and properly labeled with a complete <u>title</u>. You may not create a graph on your computer - it must be hand drawn. In addition, you should write at least 2 sentences describing your qualitative and quantitative observations.

VI. RESULTS (ANALYSIS QUESTIONS):

This section contains the answers to the lab questions or statements of what was observed and recorded. Each question should be numbered and answered in complete sentences; restate the question in your answer, or write the question and then the answer.

VII. CONCLUSION:

Some labs will have a prompt that will ask you to write about specific topics related to the lab. If this is not the case, then you will need to write

1) what happened in the lab - was your hypothesis right or wrong

what you learned (answer the problem as stated in II above)

what further experiments might be done to further the study

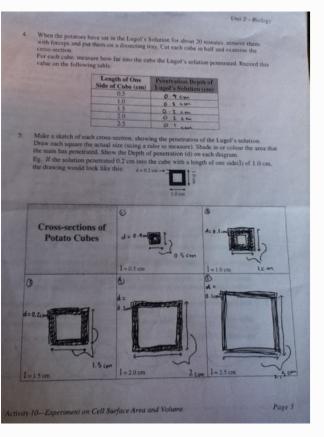
how this applies to what we are learning - what are the real life applications

This is also the place to mention any unanswered questions or any errors that occurred during the lab.

*Each of seven headings must be a labeled in your lab report. Skip lines between each section.

TABLE I. NUMBER OF DISCS FLOATED TO THE TOP

Time (min)	Discs in baking soda solution	Discs in distilled water
1	0	0
2	0	0
3	0	0
4	0	0
5	1	0
6	1	0
7	2	0
8	2	0
9	4	0
10	5	0
11	5	0
12	5	0
13	6	0
14	6	0
15	7	0
16	8	0
17	8	0
18	8	0
19	9	0
20	10	0



Revised 9/22/11

AP Biology Formal Lab Report Format

For several of the 12 required AP Biology Labs, you will construct a lab report using the guidelines listed below. You will need to be extremely familiar with these labs for the AP Exam in May.

- Lab reports will be typed and can be submitted electronically (see instructions below).
- ✓ Lab reports should be written in APA format (see separate handout).
- This write-up is to be your own work. Once you finish taking data, you are on your own. Except for the data, NOTHING in this report (including graphs) should be identical to your partner's.
- Any information taken from outside sources must be properly cited. Large amounts of information should not be copied and pasted into your report—even if it is cited.

Format:

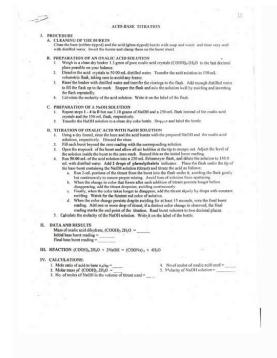
- Title (should be detailed enough to give an overview of the lab. "Enzyme Lab" is too vague. "The Effect of Temperature, pH and Salinity on Enzyme Activity" is better.
- Background Any pertinent background information should be included as an introduction to the lab report.

Purpose/Objective

- Include variables (independent and dependent); state specifically what you will be measuring.
 - Examples:
 - Good: "To measure the effect environmental variables such as light intensity, humidity, and wind on the rate of transpiration in plants".
 - Not so good "To look at the effect various conditions on water loss in plants."
 - Variables
 - · Independent-Include the variable(s) and the conditions.
 - Dependent—State the variable(s) and discuss how it will be measured.
 - · Identify the control group and the experimental group.
 - Experimental Controls/Constants—experimental variables that will be held constant; include at least two.
- Hypothesis will also be included in this section.
 - · Should be written as an "If then" statement
 - · Use clear and precise words
 - Explain what observations led you to come up with your prediction..

Procedure

- o In paragraph form, describe what you did.
- Provide a thorough overview; and explain what you are doing.
- Do not copy the procedure word for word(if you had lab instructions).



How to write an ap biology lab report. Potato lab report example.

Email info@dataclassroom.com Therefore, the effect of osmosis is unrelated to the soluto type, but only with the water content of the two solutions. Both laboratories conducted tested the percentage change in mass when the osmosis occurred. The solute is sucrose and concentrations are measured in a molar unit. After extracting the distilled water dialysis tube, we observed a slight error in the knotting of the node that could have corrupted our results and allowed to pass water through the upper part. Click the Yellow button Make a chart to view your data. The Biology AP class of Wooton. What substance has moved through the cell membrane in this activity? I hope you can use this activity or one of others on this blog. Fill the dialysis tube with different concentrations of sucrose solution and leaving them in water for a period of time a model could be observed. The instructions are here if you wish to create free access to DataClassRoom for you students for 90 days. I did this laboratory many times with my class regular rule of the 10th degree to Kelly High School of Chicago, but can be used successfully with children ranging from middle school to ap organic. Explain how your data is tests for that esteem.ã, 6. From the data obtained we can agree that the most probable result of mass loss is due to water leaving the potato. Osmosis is the diffusion of water, in which water moves into areas with high concentrations of solute. How does mass change (%) change with the concentration of sucrose (molaritage)? A, 4. What solutions were hypertonic? The experiment uses pieces of potatoes that are placed in six different water solutions were hypertonic? The experiment uses pieces of biology laboratory illustrating the principles of diffusion and osmosis and adapted it as online activity. The second laboratory tested the osmosis from a water beaker to a small wedge of di With different water concentrations. Finally, add a regression line of the best fit by checking the box only to the right of the graph. What is your best estimate for the concentration of natural solute inside a potato cell? Response key available for teachers on request. This is known as hypotonic solution. Osmosis and diffusion: the percentage of mass difference based on the Saccharose solution concentratarap Biology, Mod 5abstract The osmosis process was examined through this experiment using the dialysis tube and potato cores. Take care. This discovery agrees with our hypothesis that the semi-permeable bag with the 1 mol of sugar will have the most water movement, and it likes up to 0 mol (distilled water), which will not have any movement of water. It is important to remember that a semi-permeable bag with the 1 mol of sugar will have the most water movement of water. It is important to remember that a semi-permeable bag with the 1 mol of sugar will have the most water movement of water. limits the movement of a solute (one thing dissolved in the solvent). What solution is the closest to be isotonic compared to a potato cell? Our results can also be slightly distorted due to the temporal constraints we were facing. The explanation of the potato laboratory starts at 5:36. Beaker # 1 was the most significant change with a percentage of difference of 42.5, making it almost half of the potato mass. The solutions range from any soul to a high concentration of solute and are 0.0 (distilled water), 0.2, 0.4, 0.6, 0.8 and 1.0 molar saccharosi.pieces of potatoes are cut to size similar, weighed and then placed in one of the six solutions during the night. Show button again. Although the results contained in the initial hypothesis remains True. The next day, the pieces of potatoes are removed from the solutions, dry And their final masses are recorded. Each row in this data set in order contains an observation for a single piece of potatoes. To see a video that clearly illustrates and explain the general procedure for this laboratory, Watch Paul Bozeman Science Video Throwthrough: 1. Our hypothesis was that if a solution had a lower concentration. Methods A, A, to both experiments in this laboratory relationship were conducted to new tech high @ coppell in Mrs. Conclusion The purpose of this laboratory was to test osmosis through two vehicles. In the case of a hypertonic solution, there is more solid outside the cell than the cell. The first laboratory used dialysis tubes with a variety of sucrose concentrations. How do you know it? A, Challenge Question: 7. After the data has been completed and presented, the class data were available to compare the results of various groups in the class. Daydowns, for the first laboratory our hypothesis was correct, since we immersed the dialysis tube full of various solvent concentrations the water would go inside the bag. Our distilled water results and 0.4 mol seem to be our only abnormal values in terms of decrease mass. Using the principles illustrated with these data, he explains why you can't drink sea water when lost at sea. Water will move through a semipermeable membrane from a low-concentration of soluto to an area of higher concentration of highe this laboratory, and is the movement of water through a membrane, again from a high concentration area at low concentration. The main objective of this laboratory was to obtain a better understanding of the osmosis seeing him in action. What is the specific name of the movement in terms of this substance? Ã, 5. Alignment with our forecasts the potato in the # 4 beaker has gained weight of 0.24 g of deduction so that the n. 4 is full of distilled water. The hypertonic solutions do so that the water molecules moved from the cell and in the region of the greatest concentration of solute. of water through a semipermeable membrane. In this activity, we will explore the osmosis by looking at a data set produced with a classic experiment. Now, change the variable with the drop-down menu right under the name of the variable near the top of the page. There were no direct correlations between the results of both experiments. For a rapid explanation of diffusion and osmosis, we highly recommend the biology laboratory of Paul Andersen 1: video of diffusion and osmosis. Students can read through the background here and make their graphics, analyze these data and draw conclusions. I know you're working harder than ever to teach your students despite the challenges you face. The highest percentage of mass change (%) on the X axis and the mass chan to the right of the Chart .A, Observe the models in the data: 2. What are the independent and dependent variables in this experiment? 3. In the experiment? 3. In the experiment? 3. In the experiment? initial mass (g), the final mass (G) and mass change (%). When placed in a water beaker, the tubes should swell with water. Each column in the data set is a variable and cells in that column are the values of that variable. Concentrations were unknown and it is up to us to deduce which was what the diffusion was the movement of the particles A high concentration high concentration area. Our results were not what we expected. Because incoming data was immediately included in our data constitute almost a linear trend, since the sucrose increases, so it does the final mass of the bag. Diffusion is the movement of molecules from an area where there are many (high concentration) in an area where there are less (low concentration). Conversely, in hypotonic solutions there is a greater concentration) in an area where there are less (low concentration). experiment has been completed with the use of beakers, the dialysis tube, sucrose solvents and potatoes supplied by lady water molecules transfer through permeable membranes until both parts are the same, it means that the flow Hypotonic to the hypertonic flow is directly proportional to the mass increase. -Aron Reedy Molecoles are constantly moving due to the stored kinetic energy of a cell, which lead them to them and move into new random directions. WooTon. Using this information, another experiment was conducted with potato souls immersed in the sucrose solution to further examine osmosis. Laboratory # 1 - Å, Content of the dialysis tube in Massminionial Massmass MASSMASS g1.3 g6.40% 6.12% 19% 0.8 m22.0 g24.0 g2.0 g9.11% 6.17% 25% 1.0 m22.3 g24.2 g1 .9 G8.52% 6.85% 28% Lab # 2 - Ã, Ã, Core of Potatoes Beacher #initial Massfinal Massmass Change% Difference11.2 G.69 G0.51 G-42.5% 21.0 g. 92 g.08 g-8% 31.0 g.72 g.28 g-28% 41.2 g1.44 g + .24 g + 20% G.78 G.12 G-13.3% 61.1 G.77 G.33 G- 30% Thank you for your participation! With schools all over the world goes out, I know you could climb for activities that can be done with online students. When each each Of a membrane it has a concentration of equal relief, it is said that the solution is isotonic and the water molecules will be equally sought to move in both directions on the membrane. When possible, the water will always move from a high concentration of solute to a low concentration of solute to a low concentration of solute. However, we realized that we had some errors in the binding of our dialysis tube properly, which is what caused some of the results of distorting. Distorted.

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