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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/OBSERVATIONS:
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 title. 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

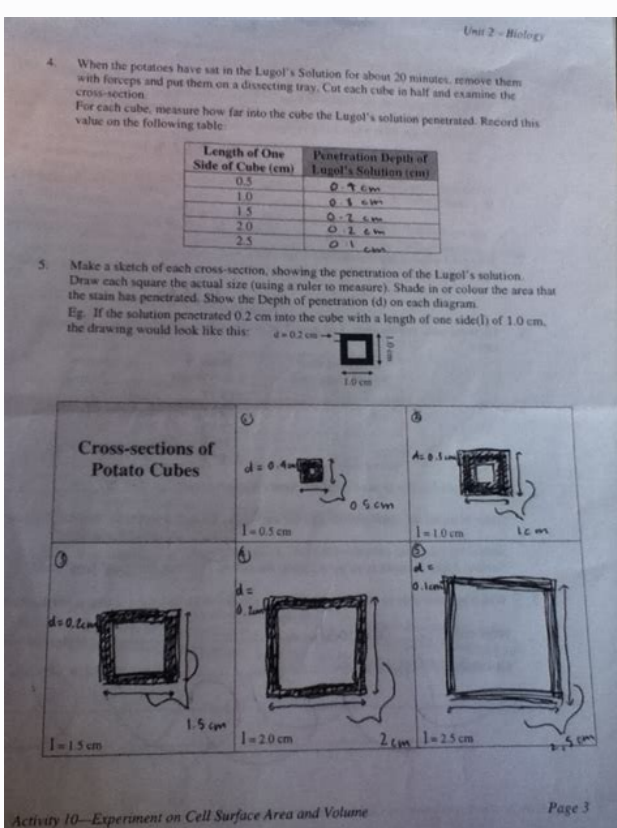
- 1) what happened in the lab - was your hypothesis right or wrong
- 2) what you learned (answer the problem as stated in II above)
- 3) what further experiments might be done to further the study
- 4) how this applies to what we are learning - what are the real life applications

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

*Each of seven headings will 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.

- ✓ The AP Exam is essay.
- ✓ 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**
 - 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).

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