LAB REPORT TEMPLATE

Title:
• A brief concise, yet descriptive title

Statement of the Problem:
• What question(s) are you trying to answer?
• Include any preliminary observations or background information about the subject

Hypothesis
• Write a possible solution for the problem
• Make sure this possible solution is a complete sentence
• Make sure the statement is testable
• The statement should reference the independent and dependent variables: such as “The plant group receiving (independent variable i.e. fertilizer) will (dependent variable i.e. produce more fruit) than the plants that did not receive (independent variable i.e. fertilizer)

Materials:
• Make a list of all items used in the lab

Procedure:
• Write a paragraph or a list which explains what you did in the lab.
• Your procedure should be written so than anyone else could repeat the experiment.

Results:
• This section should include any data tables, observations, or additional notes you make during the lab.
• Although some students may wish to recopy original data: it is important to always preserve the orginal
• You may attach a separate sheet(s) if necessary.
• All tables, graphs and charts should be labeled appropriately.

Conclusions:
• Accept or reject your hypothesis
• EXPLAIN why you accepted or rejected your hypothesis using data from the lab.
• Include a summary of the data – averages, highest, lowest, etc. to help the reader understand your results.
• List one thing you learned and describe how it applies to a real-life situation.
• discuss possible errors that could have occurred in the collection of data (experimental errors)
LAB REPORT FORM

(Name) ____________________________          (Date) _______________

Title:

Purpose/Problem

Hypothesis:

Materials/Supplies:

Procedure:

Observations and Data:

Conclusion/Summary:

Conclusion Do’s and Don’ts

• Do draw an illustration or a graph, if appropriate.
• Don’t list the data again, but summarize, discuss, and analyze the data.
• Do explain why your hypothesis was correct or incorrect from your observations or data.
• Don’t give the procedure again, but do point out possible sources of error.
• Don’t forget to break up your ideas with more than one paragraph. Your conclusion is an essay.

Helpful format for writing a conclusion
(length of blank lines does NOT indicate the length of your entries – additional sentences are encouraged)

This lab (experiment) investigated _______________________________.
In order to study the problem we ________________________________.
My results showed ________________________________, thus proving my hypothesis was (correct/incorrect).
I believe the results are (accurate/inaccurate) because ________________.
In order to further investigate this problem, next time I would _________.

The above was adapted from Cheryl Randall’s Science Lab Report found at http:
donnayoung.org/apologia/lab/labhow~cr.htm
<table>
<thead>
<tr>
<th>LAB REPORT ITEMS</th>
<th>Points</th>
<th>Points Received</th>
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</thead>
<tbody>
<tr>
<td>PROBLEM</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>HYPOTHESIS (Independent &amp; dependent variables included)</td>
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<tr>
<td>MATERIALS &amp; PROCEDURE (All steps clearly stated)</td>
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<tr>
<td>OBSERVATIONS AND DATA (Measurement units identified)</td>
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<tr>
<td>GRAPHS AND/OR ILLUSTRATION (Title, axes labeled, data points plotted)</td>
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<tr>
<td>CONCLUSION (Answers the problem, explains results)</td>
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<tr>
<td>NEATNESS</td>
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<tr>
<td>TOTAL GRADE</td>
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Safety Contract

PREPARE FOR LABORATORY WORK
- Study laboratory procedures prior to class.
- Never perform unauthorized experiments.
- Keep your lab bench organized and free of apparel, books, and other clutter.
- Know how to use the safety shower, eye wash, fire blanket, and first aid kit.

DRESS FOR LABORATORY WORK
- Tie back long hair.
- Do not wear loose sleeves, as they tend to get in the way.
- Wear closed toed shoes with tops.
- Wear lab coats or aprons during all laboratory sessions.
- Wear safety goggles during all laboratory sessions.
- Wear gloves when using chemicals that irritate or can be absorbed through skin.

AVOID CONTACT WITH CHEMICALS
- Never taste or "sniff" chemicals. Never draw materials in a pipette with your mouth.
- When heating substances in a test tube, point the "mouth" away from people.
- Never carry dangerous chemicals or hot equipment near other people.

AVOID HAZARDS
- Keep combustibles away from open flames.
- Use caution when handling hot glassware.
- When diluting acid, always add acid slowly to water. Never add water to acid.
- Use glycerin and twist slowly at the base when inserting glass tubing through stoppers.
- Turn off burners when not in use.
- Do not bend or cut glass unless appropriately instructed by teacher.
- Keep caps on reagent bottles. Never switch caps.

CLEAN UP
- Consult teacher for proper disposal of chemicals.
- Wash hands thoroughly following experiments.
- Leave laboratory bench clean and neat.

IN CASE OF ACCIDENT
- Report all accidents and spills immediately.
- Place broken glass in designated containers.
- Wash all acids and bases from your skin immediately with plenty of running water.
- If chemicals get in your eyes, wash them for at least 15 minutes with an eye wash.

I, ________________________________, agree to (a) Follow the teacher’s instructions, (b) protect my eyes, face, hands, and body during laboratory, (c) conduct myself in a responsible manner at all times in the laboratory, and (d) abide by all of the safety regulations specified above.

Print Name _______________________________ Signature
_____________________________ Date_________

Parent's/Guardian's Signature _________________________________ Date _____________