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)*

MIDDLE SCHOOL 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 <u>are</u> 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

MIDDLE SCHOOL LAB REPORT RUBRIC

LAB REPORT ITEMS	Points	Points Received
PROBLEM	5	
HYPOTHESIS (Independent & dependent variables included)	5	
MATERIALS & PROCEDURE (All steps clearly stated)	10	
OBSERVATIONS AND DATA (Measurement units identified)	10	
GRAPHS AND/OR ILLUSTRATION (Title, axes labeled, data points plotted)	10	
CONCLUSION (Answers the problem, explains results)	5	
NEATNESS	5	
TOTAL GRADE	50	