RMS Lab Format

Name

Title

Date Period

Purpose / Question / Problem: Statement of why we are doing this lab. Question or problem to be solved by experiment or investigation.

Gather and organize information (research): THINK!

Hypothesis: A hypothesis is an "IF we do …, THEN…will occur" statement using prior knowledge / observations, research to predict the outcome of the purpose / question/ problem. A hypothesis is a tentative statement that proposes a possible explanation to some phenomenon or event. A useful hypothesis is a testable statement that may include a prediction. Include text reference (page number)

Materials: List all materials used for the lab. For example, 250ml beaker, graph paper.

Procedure:

1. Numbered step by step instruction in complete sentences of what was done to complete the lab.
2. Drawings and other may be included.

Data / Results / Observations:

1. Data collected, graphs, measurements (SI units),
2. What did your senses "see", drawings,, etc.
3. Include descriptive captions to help record the HISTORY of the experiment

Analysis:

Level 1: Definition level question.
Level 2: General question about the relationship between variables identified in the purpose.
Level 3: Interpret data/results/observations to clearly determine the relationship between the data and the purpose. ***USE SPECIFIC REFERNCES TO THE DATA – NUMBERS, OBSERVATIONS!***
Level 4: Extended response which demonstrates a thorough understanding of the lab.
Include the following:

1. Additional computations and thoughts about the data.
2. Must be directly related to the purpose.
3. Classify, compare and contrast, recognize cause and effect, relationships between variables.
4. Evaluate possible sources of error (materials, procedure, data collection, other).
5. Demonstrate "next level" thinking by identifying how this lab/data can be transferred to other applications

Conclusion:

1. Conclusions must be written in paragraph form. Do not number or bullet a conclusion.
2. Restate the purpose / question/ problem.
3. Tell whether you accept or reject the hypothesis based on the results from this experiment.
4. What did you learn in this lab?
5. Now I wonder? (What are possible further experiments or questions that you could ask based on this experiment?)