<Name>

<Date>

<class period>

**<Title of Lab>**

**Introduction:**

<The introduction defines the subject of the report. It must outline the scientific purpose(s) or objective(s) for the research performed and give the reader sufficient background to understand the rest of the report. Care should be taken to limit the background to whatever is relevant to the experiment. A good introduction will answer several questions, including the following:

*What is the purpose/objective of this experiment?*

*What knowledge already exists about this subject?*

*What is the science connection? >* ***(Erase the instructions before submitting your final report to the teacher)***

**Hypothesis:**

<Propose an explanation based on your prior knowledge of information learned in class or through research. This should be done before you begin the experiment, as it is a starting point for further investigation.>***(Erase the instructions before submitting your final report to the teacher)***

**Materials:**

Create a bulleted list of material used in your lab experiment, so that anyone who reads your report could repeat it using the exact same materials.***(Erase the instructions before submitting your final report to the teacher)***

* <Item 1>

**Procedure:**

Create a numbered list of the steps you followed throughout the lab experiment, so that anyone who reads your report could repeat it following the same exact steps.***(Erase the instructions before submitting your final report to the teacher)***

1. <Step 1>

**Data:**

Create a data table to record your observations of the experiment:***(Erase the instructions before submitting your final report to the teacher)***

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**Results:**

Create a graph to display your results. You may need to transfer your data table to a spreadsheet to create a graph and then copy and paste it back into this report.***(Erase the instructions before submitting your final report to the teacher)***

**Conclusion:**

Analyze your results to determine whether or not your hypothesis was supported or disproved. Answer the following questions (in paragraph form) as further analysis of this lab experiment:

1. Was your hypothesis supported or disproved? Why?
2. <lab conclusion questions>
3. What was the control of this experiment?
4. What was the independent variable in this experiment?
5. What was the dependent variable in this experiment?

What were some possible sources of error during this experiment?***(Erase the instructions before submitting your final report to the teacher)***

**Further Investigation:**

List 2 questions that you could ask to investigate this lab further. Think about how you could change the independent variable. ***(Erase the instructions before submitting your final report to the teacher)***

1. <Question 1>
2. <Question 2>

**References:**

Cite any references that you used to complete this lab experiment. You should have at least one reference cited for the background information included in the introduction. ***(Erase the instructions before submitting your final report to the teacher)***

**Self Analysis:**

Using the [Official Scientific Inquiry Scoring Guide](http://www.ode.state.or.us/wma/teachlearn/testing/scoring/guides/2011-12/science_inquiry_gr6-8_eng.pdf), score your lab report (1-6) in each category.

|  |  |
| --- | --- |
| **Scoring Category** | **Your Score** |
| Forming a Hypothesis |  |
| Designing an Investigation |  |
| Collecting & Presenting Data |  |
| Analyzing & Interpreting Results |  |
| References (Included=6, not included=0) |  |
| Conventions (spelling, punctuation, grammar) |  |
| **Total** |  |

**Peer Review:**

Share this document with at least one of your peers or parents for review using the [Official Scientific Inquiry Scoring Guide](http://www.ode.state.or.us/wma/teachlearn/testing/scoring/guides/2011-12/science_inquiry_gr6-8_eng.pdf). After the peer review, you may make any changes suggested by the reviewer before sharing your final report with the teacher. Reviewer, please include comment that includes your first and last name.

|  |  |
| --- | --- |
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| Analyzing & Interpreting Results |  |
| References (Included=6, not included=0) |  |
| Conventions (spelling, punctuation, grammar) |  |
| **Total** |  |

**Teacher Review:**

Please leave this table blank, after you have completed your final draft you will need to share your report with the teacher. If there are any hand drawings that accompany this lab report you will need to turn them in separately to the teacher. The teacher will review your lab report and score it according to the Official Scientific Inquiry Scoring Guide.

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| --- | --- |
| **Scoring Category** | **Your Score (0-6)** |
| Forming a Hypothesis |  |
| Designing an Investigation |  |
| Collecting & Presenting Data |  |
| Analyzing & Interpreting Results |  |
| Conventions (spelling, punctuation, grammar) |  |
| References (Included=6, not included=0) |  |
| Self-Analysis completed |  |
| Peer Review completed |  |
| **Total** |  |