

Cover Page	<b>5</b> Cover page includes all 5 components (name,date,period,title,teacher)	<b>4</b> Cover page includes 4 components	<b>3</b> Cover page includes 3 components	<b>2</b> Cover page includes 2 components
Abstract	<b>10</b> Abstract is included, it summarizes <b>research, hypothesis, results and conclusion</b> in a well designed paragraph	<b>9 or 8</b> Abstract is included, it is missing <b>one</b> of the 4 components, well designed paragraph	<b>7 or 6</b> Abstract is included, it is missing <b>two</b> of the 4 components, well designed paragraph	<b>5 or 4</b> Abstract is included, it is missing <b>three</b> of the 4 components, poorly designed paragraph
Keywords	<b>2</b> Keywords are present and underline throughout the report	<b>1</b> Keywords are present but not underlined throughout the report	<b>0</b> Keywords are not present	x
Introduction	<b>10</b> Introduction is included, it discusses <b>background information and states the purpose</b> , in a well designed paragraph	<b>8</b> Introduction is included, it is missing <b>1 major component</b> of the background information <b>or</b> the purpose.	<b>6</b> Introduction is included, it is missing <b>2 major components</b> of the background information <b>or</b> the purpose.	<b>0</b> Introduction is not included. <b>No Citation Plagiarism!!</b>
Hypothesis	<b>5</b> Hypothesis included and written as an <b>if-then</b> statement (minimum). logical and related to the experiment	<b>0</b> Hypothesis not included or not logical and not related to the experiment	<b>x</b>	<b>x</b>
Materials	<b>5</b> all materials and safety equipment are listed in paragraph form and safety is addressed	<b>3</b> some materials and safety equipment is listed in paragraph form	<b>0</b> Not included in report	x
Methods	<b>10</b> includes one or more <b>paragraphs</b> , the experiment could be reproduced by using the description.	<b>9,8</b> includes one or more <b>paragraphs</b> , the experiment could not be reproduced by using the description. <b>1</b> unclear step.	<b>7,6</b> includes one or more paragraphs, the experiment could not be reproduced by using the description. <b>2</b> unclear steps	<b>0</b> could not be reproduced by using the description.

Results	<b>20</b> all data was collected and displayed in a chart/table and graph. <b>all</b> graph/chart are labeled and correct . <b>All</b> lab questions are answered correctly.	<b>19-10 parts</b> of data was not collected and displayed in a chart/table and graph. <b>some</b> graph/chart are labeled and correct. <b>Some</b> lab questions are incorrect.	<b>9-5 displayed</b> in a chart/table and graph. 2 to 3 graph/chart labels are missing. Chart/graph has a description. <b>some</b> lab questions are incorrect	<b>0 No Results</b>
Exp. Analysis	<b>5 all</b> important factors that may have affected the results were included	<b>4-3 most</b> of the important factors that may have affected the results were included	<b>2-1 few or none</b> of the important factors that may have affected the results were included	x
Discussion & Conclusion	<b>20</b> Formed a conclusion that was supported by your data, restated hypothesis, results interpreted and related to real world issues	<b>10-5 parts</b> of the data were <b>not</b> interpreted and related to a restated hypothesis	<b>0 none</b> of the data was interpreted and related to a restated hypothesis, and explanation	x.
References	<b>10 All</b> References were included and appropriately cited as APA or MLA	<b>0</b> References were <b>not</b> included or cited appropriately	<b>x</b>	x
Signature	<b>1</b> signature is included with a statement.	<b>0</b> signature is <b>not</b> included with a statement.	<b>x</b>	<b>x</b>
Spelling and Grammar	<b>7 No</b> spelling or grammar errors	<b>5</b> 2-5spelling or grammar errors	<b>3</b> 6-10 Spelling or grammar errors	<b>0</b> 10+ spelling and grammar errors

# **PUT YOUR TITLE HERE**

**PLACE A VISUAL HERE**

**PICTURE or SOMETHING you have gotten off the internet or created**

**Name:**

**Class: Biology**

**Teacher:**

**Period:**

**Date:**

## **TITLE (less than 10 words)**

### **Abstract**

The abstract is A brief, written explanation of the research project, consisting of a succinct description of the project's **purpose**, the procedures followed, the data collected, and the **conclusions** reached.

### **Keywords**

List of Words (make sure you underline them in the TEXT of your report)

### **Introduction**

The introduction should give background information about the experiment. It should also state the **purpose of the investigation**. This is where you will put all the information you found doing your research. You **must identify your references** after your information and list the reference in the reference section of your Lab Report. This section may be significant in length. You can include illustrations as well.

### **Hypothesis**

The hypothesis should be a single statement telling the exact thing you are trying to prove in your experiment. **NEVER** write this statement using “first person”. If .....then statements can be used.

### **Materials**

This section includes a list written in **paragraph** form, of **ALL** the materials and equipment used. For future labs be sure to include specific amounts and concentrations of chemicals used. Safety equipment or preventative hazardous materials lists and Materials Safety Data Sheets (MSDS) information should be included in terms of handling and disposal.

### **Methods**

**This section includes one or more paragraphs** explaining the step-by-step procedures used. The description should be so thorough that someone else should use your listed materials and procedures to conduct the same experiment and get the same results. This would include the number of replications or number of trials (experimental groups); control (normal or standard group). If the lab gives you procedures do not simply copy them! State exactly what YOU did in the experiment.

### **Results**

All data should be **collected and organized in a logical order**. Results should be illustrated as **charts and tables**. **You must have a graph**. Diagrams could be useful. All graphs should include a **TITLE**, the **independent variable** on the horizontal axis, and the **dependent variable** on the vertical axis. All lab questions and answers should be included in this section. (**Bold** the questions and *italicize* the answers).

INSERT HERE ALL  
GRAPHS, CHARTS, DIAGRAMS, TABLES

### **Error Analysis**

Include any important **FACTORS** that you think may have actually affected your results.

### **Discussion and Conclusion**

In this section, you should interpret the collected data and relate it to the restated hypothesis. Explain the significance of the results. If additional research and experimentation is needed, explain in this section. Show application of data using real world issues.

### **References**

**You may use Citationmachine.net**

A reference is a previously published work which has been used as a source in the laboratory report. Must use either APA or MLA reference format.

[www.google.com](http://www.google.com) is NOT a resource. You must list the additional web page google sent you to. [www.epa.gov/acidrain/what/index.html](http://www.epa.gov/acidrain/what/index.html) would be more acceptable.

### **Spelling and Grammar**

Use spell check and grammar check on your computer before printing

### **Signature and Date**

Your **real signature** and the date you are submitting this paper

	Points Earned	Points Possible
Cover page		5
Abstract		10
Keywords		2
Introduction		10
Hypothesis		5
Materials		5
Methods		10
Results		20
Exp. Analysis		5
Discussion and Conclusion		20
References		10
Signature		1
Spelling and Grammar		7
Total Points		110

	Points Earned	Points Possible
Cover page		5
Abstract		10
Keywords		2
Introduction		10
Hypothesis		5
Materials		5
Methods		10
Results		20
Exp. Analysis		5
Discussion and Conclusion		20
References		10
Signature		1
Spelling and Grammar		7
Total Points		110

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Abstract		10
Keywords		2
Introduction		10
Hypothesis		5
Materials		5
Methods		10
Results		20
Exp. Analysis		5
Discussion and Conclusion		20
References		10
Signature		1
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Introduction		10
Hypothesis		5
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Exp. Analysis		5
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