

## Lab Report Requirements

All lab reports must include all of the following parts:

**Title:** written on the top of the page.

**Problem Statement:** What are we looking for or why are we doing this?

**Hypothesis:** proposed answer to a question or tentative solution to a problem

**Materials:** just list the items used / needed

**Procedure:** step-by-step listing of what was done / is done. Must be written in your own words, unless otherwise stated.

**Data / Observations:** usually a table. Be sure to label all tables.

**Calculations:** give an example of each calculation done. If 3 different types of **calculations were done, then give 3 samples (one of each).**

**Analysis of Results:** usually graphs. If the graphs are attached at the back of the report, then write next to Analysis of Results- see attached

**Sources of Error:** Don't skip!! Every lab procedure has sources of error listed.

**Conclusion:** ***Claim:*** Makes an assertion or conclusion that addresses the original question or problem about a phenomena  
***Evidence:*** supports the claim using scientific data (investigation, observation, archived information)  
***Reasoning:*** links the claim and evidence and shows why the data counts as evidence to support the claim

Component	Level		
	0	1	2
<b><i>Claim</i></b> - A conclusion that answers the original question.	Does not make a claim, or makes an inaccurate claim.	Makes an accurate but incomplete claim.	Makes an accurate and complete claim.
<b><i>Evidence</i></b> – Scientific data that supports the claim. The data needs to be appropriate and sufficient to support the claim.	Does not provide evidence, or only provides inappropriate evidence (evidence that does not support the claim).	Provides appropriate but insufficient evidence to support claim. May include some inappropriate evidence.	Provides appropriate and sufficient evidence to support claim.
<b><i>Reasoning</i></b> – A justification that links the claim and evidence. It shows why the data count as evidence by using appropriate and sufficient scientific principles.	Does not provide reasoning, or only provides reasoning that does not link evidence to claim	Provides reasoning that links the claim and evidence. Repeats the evidence and/or includes some – but not sufficient – scientific principles.	Provides reasoning that links evidence to claim. Includes appropriate and sufficient scientific principles.