

Abstract			
Excellent	Good	Fair	Poor
0	0	0	0
The hypothesis and key background information from the introduction are presented. Materials and methods are summarized. Results are discussed, and a conclusion statement is made.	The hypothesis and some background are presented. Materials and methods are outlined. Some results may be presented and a conclusion made.	The hypothesis is presented. Important background may be missing. Results may be incomplete or misrepresented. The conclusion is unclear or not connected to the results.	The hypothesis, background, results, or conclusion may be missing.
Introduction			
Excellent	Good	Fair	Poor
13-12	11-6	5-3	2-0
The purpose is clearly stated in the student's words. Scientific concepts are discussed as directed, demonstrating understanding of connections. A properly worded hypothesis is stated based on these concepts.	The purpose is appropriately stated. Scientific concepts are stated with some explanation. Finer details and reasoning may be lacking. An appropriate hypothesis is stated based on these concepts.	The purpose, discussion of concepts, and hypothesis are all present. Details are missing, discussion of concepts is inaccurate, or the hypothesis is not reasonable.	Some or all elements may be missing.
Equipment and Materials			
Excellent	Good	Fair	Poor
5	4	3-2	1-0
All materials are described for the student's specific set-up and stated in list-format with indication of type and quantity.	All materials are described for the student's specific set-up and stated in list-format. Details such as type or quantity may be lacking.	Some materials are not described, or materials are not stated in list-format.	Materials are not described, or the materials are copied and pasted from the lab instructions.
Procedure			
Excellent	Good	Fair	Poor
15-13	12-9	8-5	4-0
The student's specific procedure is recorded step-by-step. The procedure is recorded in its entirety such that another student could reproduce it as originally performed.	The student's specific procedure is recorded step-by-step in its entirety. Reproducibility may be hindered by some lacking detail.	Some elements of the procedure may be omitted, the procedure is not stated step-by-step, or steps are unclear.	The procedure is copied from the lab instructions or does not make sense
Data, Observations, and Results			
Excellent	Good	Fair	Poor
30-28	27-18	17-10	9-0
Tables and graphs are appropriately formatted to teacher instructions. Any required diagrams/pictures are presented. Observations are reported objectively, and results are presented without stating analysis or conclusions.	Tables and graphs are clear, but some formatting directions may not have been followed. Any required diagrams/pictures are presented. Observations are reported objectively, and results are presented without stating analysis or conclusions.	Tables and graphs may be unclear or do not follow teacher instructions. Required pictures/diagrams may be incomplete. Observations may include some subjectivity, or results may stray into analysis or conclusions.	Tables and graphs may be unclear and do not follow teacher instruction. Required pictures/diagrams may be missing. Observations are stated subjectively and results include analysis or conclusions.
Conclusion/Discussion			
Excellent	Good	Fair	Poor
20-18	17-12	11-7	6-0
Results are connected to concepts from the Background and used as evidence to support or refute the hypothesis. Prompt-directed analysis is present and accurate. Sources of error are discussed.	Results and scientific concepts are referenced to support or refute the hypothesis. Concepts from the background are referenced, and prompt-directed analysis is reasonable. Sources of error are identified.	Results, the hypothesis, and some concepts from the background are referenced. Prompt-directed analysis may be incorrect.	Some elements may be missing, or statements do not make sense.
References			
Excellent	Poor		
5-3	2-0		
All resources are cited with APA formatting.	A proper bibliography is not included.		
Format and Style			
Excellent	Good	Fair	Poor
12	14-10	10-6	5-0
Formal, objective, third-person past passive writing is used throughout the report. Paragraph and list formats are used appropriately as instructed. Communication is effective and efficient. Appropriate units are used and labeled. Numbers are rounded with the correct number of significant figures. Document formatting instructions are followed.	Minor lapses in formality, objectivity, and/or third-person past passive writing may occur. Instructions regarding paragraphs and lists are followed. Appropriate units are used and labeled. Numbers are rounded with the correct number of significant figures. Document formatting instructions are followed.	Some lapses in formality, objectivity, and/or third-person past passive writing may occur. Instructions regarding paragraphs and lists are followed. Some errors may occur with units and significant figures. Some document formatting errors may be present.	Significant lapses in formality, objectivity, and/or third-person past passive writing may occur. Instructions regarding paragraphs and lists may not be followed, or significant errors may occur with units and significant figures. Document formatting may have significant errors.