(MS)^{2}TC Science Conclusion Writing Rubric
Claim, Evidence and Reasoning

The following rubric will be used when grading lab reports/conclusions to ensure that students are effectively connecting their claim to the evidence to provide logical reasons for the conclusion. *Refer to this rubric to help you write a proper conclusion.*

Component	Level		
	0	**1**	**2**
Claim – A conclusion that answers the purpose or challenge question of the experiment.	Does not make a claim, or makes an inaccurate claim.	Makes an accurate but incomplete claim.	Makes an accurate & complete claim.
Evidence – Scientific data that supports the claim. The data needs to be appropriate & 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 & sufficient evidence to support claim.
Reasoning – A justification that links the claim & evidence. It shows why the data count as evidence by using appropriate & sufficient scientific principles.	Does not provide reasoning, or only provides reasoning that does not link evidence to claim.	Provides reasoning that links the claim & evidence. Repeats the evidence and/or includes some, but not sufficient, scientific principles.	Provides reasoning that links evidence to claim. Includes appropriate & sufficient scientific principles.

Use the following criteria checklist to further help you write a successful argument/conclusion:

For each question, mark yes, maybe, or no as appropriate for your work sample:	Yes	Maybe	No
Is your explanation sufficient (explains everything it needs to) & coherent (free from contradictions)?			
Did you use genuine data/evidence to support your claim? Did you organize your data in a way that shows a trend over time, a relationship between variables, or a difference between groups?			
Do you have or used enough data/evidence to support your claim (used more than one piece of evidence)?			
Is there any data/evidence that does not support your claim? Have you addressed these in your explanation?			
Does your explanation fit with other theories & laws that are used in science to explain or describe how the world works?			
Is your reasoning sufficient (explain why the evidence was used & why it supports the explanation)?			
Is your reasoning appropriate (rational and sound)?			