## Base Rubric for Claims, Evidence, Reasoning, Rebuttal

Taken From <u>Supporting Grade 5-8 Students in Constructing Explanations in Science: The Claim, Evidence, and Reasoning Framework for Talk and Writing</u> by Katherine McNeill and Joseph Krajcik (2012).

Component	Level		
	0	1	2
Claim	Does not make a	Makes an accurate	Makes an accurate
A statement or	claim, or makes an	but incomplete claim.	and complete claim.
conclusion that answers	inaccurate claim.		
the question asked or			
the problem posed.			
Evidence	Does not provide	Provides	Provides <u>appropriate</u>
Scientific data that	evidence, or only	appropriate, but	and <u>sufficient</u>
supports the claim. The	provides	insufficient evidence	evidence to support
data needs to be	inappropriate	to support claim.	claim.
appropriate and	evidence that does not	May include some	
sufficient to support the	support claim.	inappropriate	
claim.		evidence.	
Reasoning	Does not provide	Provides reasoning	Provides reasoning
A justification that	reasoning, or only	that links the claim	that links evidence to
connects the evidence to	provides reasoning	and evidence.	claim. Includes
the claim. It shows <i>why</i>	that does not link	Repeats the evidence	appropriate and
data counts as evidence	evidence to the claim.	and/or includes	<u>sufficient</u> scientific
by using appropriate		some scientific	principles.
and sufficient scientific		principles, but not	
principles.		sufficient.	
Rebuttal	Does not recognize	Recognizes	Recognizes
Recognizes and	that an alternative	alternative	alternative
describes alternative	explanation exists and	explanations and	explanations and
explanations, and	does not provide a	provides appropriate	provides <u>appropriate</u>
provides counter	rebuttal or makes an	but insufficient	and <u>sufficient</u>
evidence and reasoning	inaccurate rebuttal.	counter evidence and	counter evidence and
for why the alternative		reasoning in making	reasoning when
explanation is not		a rebuttal.	making rebuttals.
appropriate.			