Science Rubric for Assessing General Education

	Master	Proficient	Developing	Novice		
	4	3	2	1	0	N/A
Students can use observational or experimental data to evaluate a test hypotheses or demonstrate sound scientific reasoning.	Connections are clear and explicit. Students work follows the scientific method; in depth evaluations and clear and explicit connections are made throughout	Students work follows the scientific method; evaluations of scientific claims are consistent and connections are logical	Student's work follows the scientific method; begins to make evaluations of scientific claims although there are missing links in logic	Student reports observational or experimental data without evaluation the scientific claims or hypothesis		
Students can demonstrate an understanding of the interaction between science and culture.	Students are able to demonstrate an in depth analysis of how science and culture inform each other	Students are able to articulate how science and culture inform each other	Students are able to articulate how science informs culture or culture informs science	Students are aware of an interactions between science and culture; work lacks clear articulation		
Students can demonstrate an understanding of the strengths and limitations of the scientific process	Students are able to demonstrate an in depth analysis of the strengths and limitations of the scientific process	Students are able to articulate both of the strengths and limitations of the scientific process	Students are able to articulate either the strengths or limitations of the scientific process	Students are aware of the strengths or limitations of the scientific process		
Students can communicate scientific formation and ideas effectively.	Communicates organizes and synthesizes scientific information from sources to fully achieve a specific purpose	Communicates, organizes, and synthesizes scientific information from sources. Intended purpose is achieved	Communicates and organizes scientific Information from sources. The information is not yet synthesized, so the intended purpose is not fully achieved.	Communicates scientific information from sources. The information is fragmented and/or used inappropriately (misquoted, taken out of context, or incorrectly paraphrased, etc.), so the intent and purpose is not achieved		

Last Edited: June 2016 Definitions: 0 means does not meet novice definition; N/A means not enough information to evaluate