

Mott Community College General Education Assessment Rubric

Scientific Method Across the Curriculum

Rubric for scoring SMC assignments:

	Good-1	Adequate - .5	Poor -0
Based on empirical knowledge or observation of some phenomenon in the natural, technical, or social sciences, the student framed and focused the study by clearly stating the problem or formulating a relevant question as to the cause of the phenomenon.	Problem or question clearly stated	Problem or question not focused or clearly stated	No problem or question identified
The student formulated a hypothesis, - a tentative explanation as to the cause of the phenomenon. (A statement regarding the expected outcome of their study.)	The hypothesis is a clear, measurable statement of expected outcomes, easily identified	The hypothesis is present, but vague or not clearly stated. Lacks single focus. Not measurable.	No hypothesis present
The student tested the hypothesis by accumulation of data using appropriate methodology through experimentation and/or systematic observation.	Hypothesis was objectively tested using appropriate methodology	Method of data collection did not fully test hypothesis. Lack of objective criteria for measurement	Did not test hypothesis
The student analyzed the data by using graphs, charts, and/or statistics.	Data was analyzed using appropriate charts, graphs or other statistics	Data analysis was not presented in a clear manner. Graphs not appropriate to the data. Data not fully analyzed (only raw data presented)	No data analysis
The student drew conclusions stating if the hypothesis was supported or rejected, and if further study is warranted.	Clear statement of whether or not the data support the hypothesis	Conclusion not supported by data, not clearly stated, not based on data or doesn't match the hypothesis	No conclusion stated