Critical Inquiry

Critical Inquiry Goal #2: Use scientific, quantitative, and computational processes in order to solve real-world problems.

Learning Outcome A: Apply scientific process to solve problems/answer questions

Specific Criteria for Learning Outcome A	4	3	2	1	0
Define Problem/Question	Communicate comprehensive, contextual understanding of the problem/question	Compare problem/question statements to determine which best summarizes the problem	Compose a basic, accurate problem/question statement	Recognize an applicable problem/question statement.	Unable to identify a problem/question statement.
Identify Strategies	Propose complex, multi-level strategic approaches for solving the problem or addressing the question.	Devise a complete appropriate strategic plan including controls to address the problem/question.	Distinguish between valid options to select best strategic plan to address the problem/question.	Recognize appropriate strategic steps that address the problem/question.	Unable to recognize steps that address the problem/question.
Propose Hypotheses	Communicate a hypothesis reflecting a comprehensive understanding of problem/question.	Develop a hypothesis that links variables	Compose a testable hypothesis from a scenario	Recognize a testable hypothesis.	Unable to recognize a testable hypothesis.
Evaluate Results	Articulate a comprehensive evaluation of results including next steps.	Produce an accurate interpretation of data including a consideration of sources of error.	Selects the best interpretation of results.	Recognize an accurate interpretation of results.	Unable to recognize results

Overall, has this student demonstrated appropriate knowledge and skills for this level in this discipline? __ Yes __ No

__ This student did not turn in an acceptable response to the assignment (e.g., failed to turn in a paper, plagiarized, etc.)