

C1 Analytical Rubric

SLO 2: Apply scientific and quantitative reasoning to solve problems and increase knowledge.

Skills	Performance Levels			
	4 Excellent	3 Good	2 Fair	1 Poor
Demonstrate an understanding of how scientific principles can be used to answer a question, solve a problem, or test a hypothesis.	Demonstrates a full understanding of scientific principles	Demonstrates a basic understanding of scientific principles	Demonstrates a partial understanding of scientific principles	Demonstrates a minimal understanding of scientific principles
Properly organize and evaluate data from a scientific investigation, case study, observations, and/or experimentation.	Data is organized clearly and efficiently  Data Analysis and calculations, logic, and/or statistics are applied correctly to effectively evaluate data	Data is organized somewhat efficiently  Data analysis and calculations, logic, and/or statistics are mostly applied correctly leading to a reasonable evaluation of data	Data is disorganized  Data analysis and calculations, logic, and/or statistics include several errors hampering the evaluation of data	Data is unclear and haphazardly organized  Data analysis and calculations, logic, and/or statistics are applied incorrectly leading to incorrect evaluation of data
Critically interpret results from a scientific investigation, case study, observations and/or experimentation to draw conclusions	Conclusions follow logically from the evaluation of data	Conclusions follow somewhat logically from the evaluation of data	Conclusions follow partially from the evaluation of data	Conclusions are unrelated or opposite from what the evaluation of data suggests
Communicate findings	Findings are communicated effectively with appropriate context	Findings are communicated somewhat effectively with limited context	Findings are partially communicated with little context	Findings are poorly communicated with no context