CRITICAL THINKING RUBRIC

LEARNING OUTCOME: Demonstrates critical thinking

DIMENSION	WHAT IS BEING ASSESSED	Not Yet Proficient	Proficient	Exceeds Proficiency
Evidence	Assesses quality of information that may be integrated into an argument	Information is incomplete and/or not reputable.	Information is credible and appropriate to support development of a coherent analysis.	High quality, credible information directly related to topic is selected in order to develop a comprehensive analysis.
Integrate	Integrates insight and or reasoning with existing understanding to reach informed conclusions and/or understanding	Synthesis is incomplete, inappropriate, and/or lacking sufficient information for purpose.	Synthesizes ideas and information appropriate for purpose.	Synthesizes ideas and information appropriate for purpose and clearly articulates either the thought process leading to the synthesis of or relationship between ideas and information
Evaluate	Evaluates information, ideas, and activities according to established principles and guidelines	Conclusion is inconsistently tied to information; related outcomes (consequences and implications), are incorrect and/or insufficiently identified.	Conclusion and/or opinion is logically tied to an appropriate range of information and insight. Related Outcomes (consequences and implications) are identified clearly.	Conclusions, opinions, and related outcomes (consequences and implications) are logical and reflect informed evaluation and ability to utilize evidence, perspective and/or insight.

QUANTITATIVE REASONING AND ANALYSIS RUBRIC

LEARNING OUTCOME: Demonstrates interpretation of quantitative data leading to conclusions

DIMENSION	WHAT IS BEING ASSESSED	Not Yet Proficient	Proficient	Exceeds Proficiency
Calculation	Calculates mathematical and numerical operations	Not all calculations are attempted. The calculations attempted are mostly done incorrectly.	Calculations are mostly successful and sufficiently comprehensive to solve problem.	Calculations are completely correct. Calculations are presented in an elegant manner (clear, logical order, concise, etc.)
Analysis/Application	Use data to make judgments and/or draw conclusions	Judgments and conclusions drawn are inaccurate or not based on the data or the data analysis.	Judgments and conclusions drawn from data and any data analysis are competent and reasonable.	Judgments and conclusions drawn from the data and any data analysis are insightful, carefully qualified and often provide new directions to pursue.
Interpretation	Explains information presented in mathematical forms (e.g. equations, graphs, diagrams, tables, and words)	Unable to present an explanation or presents an inaccurate explanation of information drawn from mathematical forms.	Presents accurate explanations of information drawn from mathematical forms. For example accurately explaining the trend of data presented in a graph or table.	Presents accurate explanations of information drawn from mathematical forms and provides appropriate inferences or deductions based on that information. For example produces additional data by interpolation or extrapolation.