Quantitative Reasoning Rubric

Intended Learning Outcome:

Analyze problems, including real-world scenarios, through the application of mathematical and numerical concepts and skills, including the interpretation of data, tables, charts, or graphs.

Criteria	Inadequate	Developing	Competent	Proficient
Identifies relevant information or data	No relevant information or data is identified	Some relevant information or data is identified but not accurately	Accurately identifies some, but not all relevant information or data	Accurately identifies all relevant information or data
Performs relevant calculations and/or converts information/data	Does not calculate and/or convert information/data	Calculates and converts with many errors	Calculates and converts with a few errors	Calculates and converts with no errors
Analyzes results to address the problem/scenario	Does not analyze the result	Analyzes results with no relevant or usable conclusions	Analyzes results with relevant or usable conclusions, but with some gaps	Analyzes results with relevant and usable conclusions

Guide to Quantitative Reasoning

Intended Learning Outcome:

Analyze problems, including real-world scenarios, through the application of mathematical and numerical concepts and skills, including the interpretation of data, tables, charts, or graphs.

Assessment may include but is not limited to the following criteria and intended outcomes:

Identifies and explains information or data

- Identifies appropriate data to solve a problem
- Accurately seeks information and data from appropriate sources
- Expands upon ideas to foster new lines of inquiry
- Forms relevant assumptions using sound quantitative reasoning

Performs relevant calculations and/or converts information/data

- Applies appropriate formulas in mathematical calculations
- Converts charts, graphs and/or other numerical data effectively
- Evaluates costs and benefits of potential solutions

Analyzes results to address the problem/scenario

- Applies sound quantitative reasoning to the analysis of data or information
- Accurately and proficiently synthesizes data and information to form logical conclusions
- Uses analysis/synthesis in response to problems, including real-world scenarios
- Understands limitations of analysis
- Interprets data and information to analyze real-world problems based on analysis/synthesis

Revised 4/18/2017