

QUANTITATIVE LITERACY RUBRIC

Quantitative Literacy: Work effectively with numerical data.				
Students with strong Quantitative Literacy skills understand and can create sophisticated arguments supported by quantitative evidence for various purposes and audiences. They can analyze quantitative data, perform calculations to answer questions, make judgments based on data, and clearly communicate how data can be used to support a position in an appropriate format (i.e., words, tables, graphs, and mathematical equations).				
OBJECTIVES <i>(Items in italics below are definitions or examples)</i>	ACCOMPLISHED (4)	SATISFACTORY (3)	PROGRESSING (2)	EMERGING (1)
Calculation	Calculations are correct, solve the problem, and are presented clearly and concisely.	Calculations are correct and solve the problem.	Calculations are mostly correct but only partially solve the problem.	Calculations are incorrect.
Representation of Data <i>mathematical portrayals include equations, graphs, diagrams, tables, words</i>	Skillfully converts data into an insightful mathematical portrayal in a way that contributes to a deeper understanding.	Competently converts data into an appropriate and accurate mathematical portrayal.	Converts data but the resulting mathematical portrayal is only partially appropriate or accurate.	Converts data but the resulting mathematical portrayal is inappropriate or inaccurate.
Application/Analysis	Uses the quantitative analysis of data as the basis for deep and thoughtful judgments, drawing insightful, carefully qualified conclusions.	Uses the quantitative analysis of data as the basis for competent judgments, drawing reasonable and appropriately qualified conclusions.	Uses the quantitative analysis of data as the basis for mechanical judgments, drawing plausible conclusions.	Uses the quantitative analysis of data as the basis for tentative, basic judgments, but is tentative about drawing conclusions.
Communication	Uses quantitative information in connection with the purpose of the work, presents it in an effective format, and explains it with consistently high quality.	Uses quantitative information in connection with the purpose of the work, presents it in an effective format, and explains it adequately.	Uses quantitative information, but does not effectively connect it to the argument or purpose of the work.	Uses quantitative information but does not provide adequate explicit numerical support (may use quasi-quantitative words such as "many," "few," "increasing," "small," and the like in place of actual quantities).

This rubric was inspired by the AAC&U VALUE rubric.

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