Volunteer Core Quantitative and Logical Reasoning (QR) Rubric for Student Assessment

QR Outcome 1	1- Ineffective	2-Adequate	3-Effective	4-Outstanding
Students will	Missing or incomplete	Work shows connections to the	Work draws from the given	Clear work that connects the
demonstrate the ability	work; doesn't show any	given problem or argument and	information and takes	given problem or argument with a
to identify those aspects	connection between	takes at least one correct step	multiple correct steps	solution or effective restatement
of arguments and	the original problem or	towards a solution or re-	towards the solution or re-	of the original statement. The
claims that rely on	argument and the work	statement of the problem.	statement of the problem.	work has multiple steps that
quantitative evidence	provided.		May still show several small	show mastery of mathematical or
and on mathematical or			misunderstandings, but	logical reasoning.
logical reasoning.			nothing critical.	
QR Outcome 2	1- Ineffective	2-Adequate	3-Effective	4-Outstanding
Students will	Missing or incomplete	Connections between the parts of	Work or argument uses the	Work evaluates the situation
demonstrate the ability	or completely	the problem are provided but they	given information correctly	correctly, using proper language
to evaluate the	unsupported	are not necessarily complete or	and makes the proper	and methods, and provides
appropriateness of	argument. No	presented with the expected	conclusions based on that	proper support for any arguments
conclusions drawn from	connection shown	precise language. The results are	data. The evaluation is	or conclusions.
quantitative evidence	between given	evaluated correctly or at least	correct, but may still show	
and mathematical or	information and the	consistently with the support	some small errors in	
logical reasoning	results.	given.	reasoning or language.	
techniques.				
QR Outcome 3	1- Ineffective	2-Adequate	3-Effective	4-Outstanding
Students will	Missing or incomplete	Solution and some support are	Solutions and support are	Solution is stated precisely using
demonstrate the ability	or completely	provided, but there is no precision	provided and correct, but	appropriate quantitative or logical
to formulate and solve	unsupported answer	in the language or statements	there are misuses of	notation and terminology, and is
problems that rely on	(e.g. Missing or	used, no quantitative elements in	terminology or data, or there	supported correctly using specific
mathematical or logical	incomplete solution)	the support, or the solution does	are some missing elements	data references from the
reasoning.		not logically follow from the	in the support. (e.g. Correct	problem. (e.g. Match the wording
		support. (e.g. Solution given, but	and matches most but not all	and elements of the solution key.)
		major errors with respect to the	of the solution key;	
		solution key.)	differences are not	
			significant.)	