UK Core Quantitative Foundations Rubric

UK General Education Learning Outcome 3: Students will demonstrate an understanding of and ability to employ methods of quantitative reasoning.

Outcomes and Assessment Framework: Students will (a) demonstrate how fundamental elements of mathematical, logical and statistical knowledge are applied to solve real-world problems; and (b) explain the sense in which an important source of uncertainty in many everyday decisions is addressed by statistical science, and appraise the efficacy of statistical arguments that are reported for general consumption. Curricular Framework Students will take one 3-hour course on the application of mathematical, logical and statistical methods, and one 3-hour course devoted to a conceptual and practical understanding of statistical inferential reasoning.

	4	3	2	1	0
Demonstrate how	Competently	Adequately translates	Translates available	The translation of	Does not attempt.
fundamental elements	translates appropriate	available information	information, but	available information	
of mathematical	information into	into fundamental	resulting quantitative	is incomplete or	
and/or logical	fundamental elements	elements of	portrayal is somewhat	inappropriate and	
knowledge are applied	of mathematical or	mathematical or	appropriate or	results in an ineffective	
to solve real-world	logical knowledge and	logical knowledge.	accurate.	portrayal.	
problems	provides an effective				
	interpretation for the				
	purpose of solving				
	real-world problems.				
Appraise the efficacy	Uses appropriate	Adequately uses	Uses appropriate	Presents an argument	Does not attempt.
of numerical/logical	quantitative language	quantitative language	quantitative language	that is relevant, but	
arguments that are	and/or constructs in	and/or constructions	and/or constructions	does not provide	
reported for general	connection with a	in connection with an	but these are	adequate quantitative	
consumption	mathematical or	argument. It may be	insufficient to evaluate	justification.	
	logical argument for	presented in an	the efficacy of the		
	the purpose of	ineffectual format or	argument.		
	evaluating efficacy.	some parts of the			
		explication may be			
		uneven.			