## **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.

	Exceeds Expectations	Meets Expectations	Does Not Meet Expectations
Demonstrate how	Competently translates	Adequately translates available	The translation of available
fundamental elements of	appropriate information into	information into fundamental	information is incomplete or
mathematical and/or logical	fundamental elements of	elements of mathematical or	inappropriate and results in an
knowledge are applied to	mathematical or logical	logical knowledge.	ineffective portrayal.
solve real-world problems	knowledge and provides an effective interpretation for the purpose of solving real-world problems.		
Construct or evaluate numerical, logical, or statistical arguments that are applied to real-world problems	Uses appropriate quantitative language and/or constructs in connection with a mathematical or logical argument.	Adequately uses quantitative language and/or constructions in connection with an argument. It may be presented in an ineffectual format or some parts of the explication may be uneven.	Presents an argument that may be relevant, but does not provide adequate quantitative justification.