

Access to Higher Education Unit

This unit forms part of an Access to HE Diploma. If delivering the graded version of this unit, please refer to the Provider Handbook for details on grading descriptors and the application of these across units within your programme.

Unit Title: Introductory Statistical and Numerical Methods

Graded Unit Reference Number: GA33MTH27

Ungraded Unit Reference Number: UA33MTH27

Module: Mathematics

Level: Three (3)

Credit Value: Three (3)

Minimum Guided Learning Hours: 30

Learning Outcome (The Learner will):	Assessment Criterion (The Learner can):
1. Understand basic number relationships	1.1 Use ratio and proportion to solve problems
	1.2 Use standard index form to solve problems
2. Understand basic algebraic methods	2.1 Manipulate algebraic expressions and formulae using substitution and transposition
	2.2 Solve problems involving simple linear equations/inequalities
	2.3 Solve 2D problems involving straight line graphs, their coordinates and equations
3. Understand basic measures of location and dispersion	3.1 Calculate the mean, median and range of ungrouped data
	3.2 Calculate an estimate of the mean for grouped data
4. Understand how to use statistical diagrams	4.1 Solve problems involving cumulative frequency and box-and-whisker diagrams
	4.2 Use cumulative frequency diagrams to estimate the median and quartiles

	4.3 Solve problems involving histograms
	4.4 Solve problems involving scatter graphs and lines of best fit
	4.5 Recognise and explain distribution features from diagrams, including outliers and skewness
5. Understand basic probability	5.1 Solve probability problems involving independent events and mutually exclusive events
	5.2 Use experimental data to solve problems involving probability and relative frequency