

Unit Title: Maths for Health Sciences
Level: Two
Credit Value: 9
GLH:
NOCN Unit Code: RB1/2/TE/010
QCA Unit Reference
Grading Descriptors: Not Applicable

This unit has 6 learning outcomes.

LEARNING OUTCOMES	ASSESSMENT CRITERIA
The learner will:	The learner can:
1. Calculate with whole numbers, fractions, decimals and percentages	1.1. Use basic calculator functions and understand the effect of operator precedence 1.2. Use negative numbers in familiar contexts, eg temperature, bank balances 1.3. Approximate to a given number of decimal places or significant figures 1.4. Calculate using fractions, decimals and percentages 1.5. Calculate the percentage of a quantity 1.6. Convert between common fractions, decimals and percentages 1.7. Perform calculations using standard form for numbers greater than 10 and less than 1 1.8. Calculate using ratio and inverse direct proportion
2. Deal with figures in everyday situations	2.1. Calculate percentage change and calculate discounts 2.2. Calculate discounts 2.3. Work out the best value for money in given circumstances, eg choosing between various alternatives of a product 2.4. Perform VAT calculations, eg household bills 2.5. Use tax bands in calculations, eg income tax, council tax 2.6. Calculate simple and compound interest on savings, eg hire purchase, savings 2.7. Calculate overtime and commission pay

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LEARNING OUTCOMES	ASSESSMENT CRITERIA
The learner will:	The learner can:
3. Understand metric and imperial systems of units	3.1. Use a wide range of units of length, capacity, weight, mass, temperature, pressure and energy 3.2. Convert between units
4. Collect, tabulate, display and analyse data	4.1. Demonstrate an awareness of how data is collected eg conducting surveys 4.2. Read and interpret tabular information and diagrams of data 4.3. Construct bar charts, pie charts and frequency diagrams 4.4. Produce scatter diagrams from tables of readings and analyse trends (correlation), eg Height/Weight graphs 4.5. Construct line graphs and calculate gradient 4.6. Use conversion graphs 4.7. Use mean, mode and median and know which is the most appropriate average in a given situation 4.8. Construct cumulative frequency graphs and analyse them for median and interquartile range
5. Calculate probabilities, and use flow charts, to help make choices	5.1. Calculate simple probability 5.2. Complete tree diagrams and perform calculations for combined events, eg analyse results from double blind tests

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LEARNING OUTCOMES	ASSESSMENT CRITERIA
The learner will:	The learner can:
6. Use basic algebraic techniques	6.1. Manipulate symbols by adding, subtracting, multiplying or dividing 6.2. Simplify algebraic expressions by collecting like terms 6.3. Factorise algebraic expressions 6.4. Factorise and expand algebraic expressions by removing brackets 6.5. Form linear equations from a range of different situations and solve them 6.6. Solve formulae by substitution 6.7. Rearrange formulae in relatively simple cases, eg converting Fahrenheit to Celsius

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ASSESSMENT INFORMATION

Guidance:

This grid gives details of the assessment activities to be used with the unit attached. Please refer to the NOCN Handbook for definitions of each activity and the expectations for assessment practice and evidence for moderation.

The assessment activities for this unit are indicated in the table below:

Key: P = Prescribed – this assessment method *must* be used to assess the unit.
O = Optional – this assessment method *could* be used to assess the unit.

Case study		Project	
Written question & answer/test/exam		Role play/simulation	
Essay		Practical demonstration	
Report		Group discussion	
Oral question and answer		Performance/exhibition	
Written description		Production of artefact	
Reflective log / diary		Practice file	

Signposting Key Skills

This unit offers clear opportunities for learners to provide evidence of achievement in Key Skills achievement in the following skill area/s:

Key Skill		Wider Key Skill	
Communication		Working with others	
Information Technology		Problem solving	
Application of Number		Improving Own Learning and Performance	

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Accredited Start date:
Accredited End date:
Unit Sector/Subject area:
Grading descriptors:
Availability for Use:

Purpose and Aim of the Unit	Free Text
Restrictions on the Availability	Free Text or N/A
Additional Assessment Requirements	Free Text or N/A
Details of relationship between the Unit and the NOS	Free Text or N/A
Details of relationship between the Unit and Standards (not NOS)	Free Text or N/A
Endorsement of the Unit by	Free Text or N/A