



PASS
FUNCTIONAL
SKILLS

Pass Functional Skills Maths Level 2 Course Curriculum Map

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Using Numbers

Topic	Specification Points
Addition and Subtraction (including decimals)	L2.2 Carry out calculations with numbers up to one million including strategies to check answers including estimation and approximation
	L2.10 Add, subtract, multiply and divide decimals up to three decimal places
Multiplication & Division (including decimals)	L2.2 Carry out calculations with numbers up to one million including strategies to check answers including estimation and approximation
	L2.10 Add, subtract, multiply and divide decimals up to three decimal places
Order of Operations	L2.12 Follow the order of precedence of operators, including indices
Decimals and Place Value	L2.1 Read, write, order and compare positive and negative numbers of any size
	L2.9 Order, approximate and compare decimals
	L2.10 Add, subtract, multiply and divide decimals up to three decimal places
Ordering Numbers (including decimals & fractions)	L2.1 Read, write, order and compare positive and negative numbers of any size
	L2.7 Order, add, subtract and compare amounts or quantities using proper and improper fractions and mixed numbers
	L2.9 Order, approximate and compare decimals



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Fractions (adding & subtracting)

● **L2.7**
Order, add, subtract and compare amounts or quantities using proper and improper fractions and mixed numbers

Fractions of Amounts

● **L2.8**
Express one number as a fraction of another

Percentages of Amounts

● **L2.5**
Work out percentages of amounts and express one amount as a percentage of another

Percentage Change

● **L2.6**
Calculate percentage change (any size increase and decrease), and original value after percentage change

Reverse Percentages

● **L2.6**
Calculate percentage change (any size increase and decrease), and original value after percentage change

Fractions, Decimals and Percentages

● **L2.6**
Identify and know the equivalence between fractions, decimals, and percentages

Estimation

● **L2.2**
Carry out calculations with numbers up to one million including strategies to check answers including estimation and approximation

● **L2.9**
Order, approximate and compare decimals

Ratio

● **L2.11**
Understand and calculate using ratios, direct proportion and inverse proportion

Direct and Inverse Proportion

● **L2.11**
Understand and calculate using ratios, direct proportion and inverse proportion

Substituting Values Into Equations

● **L2.3**
Evaluate expressions and make substitutions in given formulae in words and symbols

Measures, Shape and Space

Topic	Specification Points
Problems Involving Money	<ul style="list-style-type: none">L2.13 Calculate amounts of money, compound interest, percentage increases, decreases and discounts including tax and simple budgetingL2.15 Calculate using compound measures including speed, density and rates of pay
Compound Growth	<ul style="list-style-type: none">L2.13 Calculate amounts of money, compound interest, percentage increases, decreases and discounts including tax and simple budgeting
Unit Conversions	<ul style="list-style-type: none">L2.14 Convert between metric and imperial units of length, weight and capacity using a) a conversion factor and b) a conversion graph
Conversion Graphs	<ul style="list-style-type: none">L2.14 Convert between metric and imperial units of length, weight and capacity using a) a conversion factor and b) a conversion graph
Circles	<ul style="list-style-type: none">L2.16 Calculate perimeters and areas of 2-D shapes including triangles and circles and composite shapes including non-rectangular shapes (formulae given except for triangles and circles)
Perimeter	<ul style="list-style-type: none">L2.16 Calculate perimeters and areas of 2-D shapes including triangles and circles and composite shapes including non-rectangular shapes (formulae given except for triangles and circles)
Areas of 2D Shapes	<ul style="list-style-type: none">L2.16 Calculate perimeters and areas of 2-D shapes including triangles and circles and composite shapes including non-rectangular shapes (formulae given except for triangles and circles)
Nets of 3D Shapes	<ul style="list-style-type: none">L2.20 Understand and use common 2-D representations of 3-D objects

Volumes of 3D Shapes	<p>L2.17 Use formulae to find volumes and surface areas of 3-D shapes including cylinders (formulae to be given for 3-D shapes other than cylinders)</p>
Surface Area of 3D Shapes	<p>L2.17 Use formulae to find volumes and surface areas of 3-D shapes including cylinders (formulae to be given for 3-D shapes other than cylinders)</p>
Projections and Elevations	<p>L2.20 Understand and use common 2-D representations of 3-D objects</p> <p>L2.21 Draw 3-D shapes to include plans and elevations</p>
Maps and Scale Drawings	<p>L2.18 Calculate actual dimensions from scale drawings and create a scale diagram given actual measurements</p>
Coordinates	<p>L2.19 Use coordinates in 2-D, positive and negative, to specify the positions of points</p>
Angles in 2D shapes	<p>L2.22 Calculate values of angles and/or coordinates with 2-D and 3-D shapes</p>
Areas of 2D Shapes	<p>L2.16 Calculate perimeters and areas of 2-D shapes including triangles and circles and composite shapes including non-rectangular shapes (formulae given except for triangles and circles)</p>
Speed and Density	<p>L2.15 Calculate using compound measures including speed, density and rates of pay</p>

Handling Data

Topic

Specification Points

Mean, Median, Mode and Range

L1.23
Calculate the median and mode of a set of quantities



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Data tables (Two-way tables)

● **L1.25**
Use the mean, median, mode and range to compare two sets of data

● **L2.26**
Work out the probability of combined events including the use of diagrams and tables, including two-way tables

Estimating the Mean

● **L2.24**
Estimate the mean of a grouped frequency distribution from discrete data

Simple Probability

● **L2.26**
Work out the probability of combined events including the use of diagrams and tables, including two-way tables

● **L2.27**
Express probabilities as fractions, decimals and percentages

Scatter Graphs

● **L2.28**
Draw and interpret scatter diagrams and recognise positive and negative correlation