



**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)	<b>L2.2</b> Carry out calculations with numbers up to one million including strategies to check answers including estimation and approximation
	<b>L2.10</b> Add, subtract, multiply and divide decimals up to three decimal places
Multiplication & Division (including decimals)	<b>L2.2</b> Carry out calculations with numbers up to one million including strategies to check answers including estimation and approximation
	<b>L2.10</b> Add, subtract, multiply and divide decimals up to three decimal places
Order of Operations	<b>L2.12</b> Follow the order of precedence of operators, including indices
Decimals and Place Value	<b>L2.1</b> Read, write, order and compare positive and negative numbers of any size
	<b>L2.9</b> Order, approximate and compare decimals
	<b>L2.10</b> Add, subtract, multiply and divide decimals up to three decimal places
Ordering Numbers (including decimals & fractions)	<b>L2.1</b> Read, write, order and compare positive and negative numbers of any size
	<b>L2.7</b> Order, add, subtract and compare amounts or quantities using proper and improper fractions and mixed numbers
	<b>L2.9</b> 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**  
Work out percentages of amounts and express one amount as a percentage of another

**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"><li><b>L2.13</b> Calculate amounts of money, compound interest, percentage increases, decreases and discounts including tax and simple budgeting</li><li><b>L2.15</b> Calculate using compound measures including speed, density and rates of pay</li></ul>
Compound Growth	<ul style="list-style-type: none"><li><b>L2.13</b> Calculate amounts of money, compound interest, percentage increases, decreases and discounts including tax and simple budgeting</li></ul>
Unit Conversions	<ul style="list-style-type: none"><li><b>L2.14</b> Convert between metric and imperial units of length, weight and capacity using a) a conversion factor and b) a conversion graph</li></ul>
Conversion Graphs	<ul style="list-style-type: none"><li><b>L2.14</b> Convert between metric and imperial units of length, weight and capacity using a) a conversion factor and b) a conversion graph</li></ul>
Circles	<ul style="list-style-type: none"><li><b>L2.16</b> 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)</li></ul>
Perimeter	<ul style="list-style-type: none"><li><b>L2.16</b> 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)</li></ul>
Areas of 2D Shapes	<ul style="list-style-type: none"><li><b>L2.16</b> 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)</li></ul>
Nets of 3D Shapes	<ul style="list-style-type: none"><li><b>L2.20</b> Understand and use common 2-D representations of 3-D objects</li></ul>



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## Volumes of 3D Shapes

- **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)

## Surface Area of 3D Shapes

- **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)

## Projections and Elevations

- **L2.20**  
Understand and use common 2-D representations of 3-D objects
- **L2.21**  
Draw 3-D shapes to include plans and elevations

## Maps and Scale Drawings

- **L2.18**  
Calculate actual dimensions from scale drawings and create a scale diagram given actual measurements

## Coordinates

- **L2.19**  
Use coordinates in 2-D, positive and negative, to specify the positions of points

## Angles in 2D shapes

- **L2.22**  
Calculate values of angles and/or coordinates with 2-D and 3-D shapes

## Areas of 2D Shapes

- **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)

## Speed and Density

- **L2.15**  
Calculate using compound measures including speed, density and rates of pay

## Handling Data

### Topic

### Specification Points

#### Mean, Median, Mode and Range

- **L2.23**  
Calculate the median and mode of a set of quantities



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## Data tables (Two-way tables)

● **L2.25**  
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