

Pearson Edexcel Functional Skills Level 1.

This document should be used alongside the Pearson/Edexcel published Scheme of work that can be found [here](#).

Extension work referred to is from the Pearson/Edexcel published Scheme of work, Level 2 that can be found [here](#).

Maths Scheme of Work – Functional Skills Level 1

Unit	Prior Knowledge From ELC 3/Edexcel award L1/FS L1and previous units	Learning Opportunities	Colour band	Edexcel Award	Functional skills	GCSE
1. Read, write, order and compare large numbers (up to one million) 2. Recognise and use positive and negative numbers	Count, read, write, order and compare numbers up to 1000.	<ol style="list-style-type: none"> read and write numbers up to one million (both written in words and using digits) explain the value represented by a specific digit in a given number (up to one million) place numbers up to one million in ascending and/or descending order compare numbers up to one million using 'greater than' and 'less than' symbols recognise and use positive and negative numbers in practical contexts (e.g. temperature, profit/loss) count in steps of various sizes, including negative numbers calculate with positive and negative numbers. <p>Teaching ideas and resources here</p>				GCSE grade 1-3
Extension Opportunities		<p>Read, write, order and compare positive and negative numbers of any size</p> <p>Carry out calculations with numbers up to one million including strategies to check answers including estimation and approximation</p>			Level 2	
Additional Teacher Notes		<p>Learners are required to extract information given in relevant real-world contexts</p> <p>Learners are required to obtain and present results, and check their own working to an appropriate level of accuracy necessary for the specific task</p> <p>Learners are required to show working in order to gain marks. This working rationalises the answer they present.</p> <p>Learners may be expected to make a yes/no decision or give a short answer</p>				

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<p>3. Multiply and divide whole numbers and decimals by 10, 100, 1000</p> <p>4. Use multiplication facts and make connections with division facts</p>	<p>Add and subtract using three-digit whole numbers.</p> <p>Divide three-digit whole numbers by single- and double-digit whole numbers and express remainders.</p> <p>Multiply two-digit whole numbers by single- and double-digit whole numbers.</p>	<ol style="list-style-type: none"> recognise multiples of 10, 100, 1000 recognise multiples of 2 to 9 up to 100 break down numbers into prime factors work out multiplication and division problems using mental and written methods. <p>5. Teaching ideas and resources here</p>				Grade 1-3
Extension Opportunities		Carry out calculations with numbers up to one million including strategies to check answers including estimation and approximation			Level 2	
Additional Teacher Notes	<p>Learners are required to extract information given in relevant real-world contexts</p> <p>Learners are required to obtain and present results, and check their own working to an appropriate level of accuracy necessary for the specific task</p> <p>Learners are required to show working in order to gain marks. This working rationalises the answer they present. Learners may be expected to make a yes/no decision or give a short answer</p>					

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5. Use simple formulae expressed in words for one or two-step operation	Substitution into simple formulae Order of operations	<ol style="list-style-type: none"> 1. substitute a variable in a formula with a correct value 2. evaluate expressions in a given formula 3. follow the correct order of operations to evaluate a formula. Teaching ideas and resources here				GCSE grade 1-3
Extension Opportunities		Substitute a value into a given formula to work out a total cost. Convert between different units using a given formula.			Level 2	
Additional Teacher Notes	Learners are required to extract information given in relevant real-world contexts Learners are required to obtain and present results, and check their own working to an appropriate level of accuracy necessary for the specific task Learners are required to show working in order to gain marks. This working rationalises the answer they present. Learners may be expected to make a yes/no decision or give a short answer					

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6. Calculate the squares of one-digit and two-digit numbers 7. Follow the order of precedence of operators	Types of number Order of operations Multiplication tables	<ol style="list-style-type: none"> understand that squaring a number means multiplying the number by itself recall times tables to work out the squares of up to two-digit numbers follow the order of operations to solve calculations. Teaching ideas and resources here				GCSE grade 1-3
Extension Opportunities		<p>Work out the squares of any two-digit number, e.g. 22.</p> <p>Comprehend the written problem in terms of two-step operations and realise which takes precedence</p>			Level 2	
Additional Teacher Notes		Learners are required to extract information given in relevant real-world contexts Learners are required to obtain and present results, and check their own working to an appropriate level of accuracy necessary for the specific task				

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8. Read, write, order and compare common fractions and mixed numbers 9. Find fractions of whole number quantities or measurement	Read, write and understand thirds, quarters, fifths and tenths including equivalent forms.	<ol style="list-style-type: none"> read and write common fractions and mixed numbers find equivalent fractions (simplify fractions) order fractions in ascending or descending order and compare them work out the value of a fraction of a whole number, some using various units (£, kg, m, etc.). <p>Teaching ideas and resources here</p>				GCSE grade 1-3
Extension Opportunities		recognise and calculate equivalences between fractions, percentages and decimals.			Level 2	
Additional Teacher Notes		<p>Learners are required to extract information given in relevant real-world contexts Learners are required to obtain and present results, and check their own working to an appropriate level of accuracy necessary for the specific task Learners are required to show working in order to gain marks. This working rationalises the answer they present. Learners may be expected to make a yes/no decision or give a short answer</p>				

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<p>10. Read, write, order and compare decimals up to three decimal places</p> <p>11. Add, subtract, multiply and divide decimals up to two decimal places</p> <p>12. Approximate by rounding to a whole number or to one or two decimal place</p>	<p>Read, write and use decimals up to two decimal places.</p>	<ol style="list-style-type: none"> read and write decimals up to three decimal places (both written in words and using digits) explain the value represented by a specific digit in a given decimal (up to three decimal places) place decimals in ascending and/or descending order compare decimals up to three decimal places using 'greater than' and 'less than' symbols add, subtract, multiply and divide decimals up to two decimal places approximate by rounding to a whole number or to one or two decimal place <p>Teaching ideas and resources here</p>				GCSE grade 1-3
Extension Opportunities		Work out percentages of amounts and express one amount as a percentage of another			Level 2	

	6 Calculate percentage change (any size increase and decrease), and original value after percentage change				
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<p>13. Read, write, order and compare percentages in whole numbers</p> <p>14. Calculate percentages of quantities, including simple percentage increases and decreases by 5% and multiples thereof</p>	<p>Recognise percentage as 'parts of 100'</p>	<ol style="list-style-type: none"> 1. read and write percentages in whole numbers 2. order and compare percentages using 'greater than' and 'less than' symbols 3. work out percentages of quantities, including increases and decreases by 5% and multiples thereof. <p>Teaching ideas and resources here</p>				<p>GCSE grade 1-3</p>
<p>Extension Opportunities</p>	<p>Work out the original price from a discounted price.</p>				<p>Level 2</p>	
<p>Additional Teacher Notes</p>	<p>Learners are required to extract information given in relevant real-world contexts Learners are required to obtain and present results, and check their own working to an appropriate level of accuracy necessary for the specific task Learners are required to show working in order to gain marks. This working rationalises the answer they present. Learners may be expected to make a yes/no decision or give a short answer</p>					

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From ELC 3/Edexcel
award L1/FS L1and
previous units

<p>15. Estimate answers to calculations using fractions and decimals</p> <p>16. Recognise and calculate equivalences between common fractions, percentages and decimals</p>	<p>Equivalence of simple fractions and decimals</p>	<p>1. estimate answers to calculations using fractions and decimals 2. recognise and calculate equivalences between common fractions, percentages and decimals.</p> <p>Teaching ideas and resources here</p>				<p>GCSE grade 1-3</p>
<p>Extension Opportunities</p>		<p>Calculate amounts of money, percentage increases, decreases and discounts including tax and simple budgeting</p>			<p>Level 2</p>	
<p>Additional Teacher Notes</p>		<p>Learners are required to extract information given in relevant real-world contexts Learners are required to obtain and present results, and check their own working to an appropriate level of accuracy necessary for the specific task Learners are required to show working in order to gain marks. This working rationalises the answer they present. Learners may be expected to make a yes/no decision or give a short answer</p>				

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17. Work with simple ratio and direct proportions	Multiply and divide integers	<ol style="list-style-type: none"> 1. understand the multiplicative relationship between two quantities in a simple ratio 2. simplify ratio notation 3. use proportion as equality of simple ratios 4. relate simple ratios to fractions correctly 5. work with direct proportion. <p>Teaching ideas and resources here</p>				GCSE grade 1-3
Extension Opportunities		<p>understand the multiplicative relationship between two quantities in a ratio</p> <p>simplify ratio notation</p>			Level 2	

	relate ratios to fractions correctly				
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18. Calculate simple interest in multiples of 5% on amounts of money 19. Calculate discounts in multiples of 5% on amounts of money	Percentage amounts of Percentage increase and decrease	1. work out simple interest on amounts of money 2. work out discount on amounts of money. Teaching ideas and resources here				GCSE grade 1-3
Extension Opportunities		calculate confidently with money, using 2 dp accuracy and correct money notation			Level 2	

	<ul style="list-style-type: none"> · know and use the compound interest formula · work out percentages of quantities, including increases and decreases in a variety of money and budgeting contexts. 				
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20.Convert between units of length, weight, capacity, money and time, in the same system 21.Recognise and make use of simple scales on maps and drawings	Use and compare measures of length, capacity, weight and temperature using metric or imperial units to the nearest labelled or unlabelled division. Compare metric measures of length including millimetres, centimetres, metres and kilometres. Compare measures of weight including grams and kilograms.	<ol style="list-style-type: none"> 1. convert between units of length, weight, capacity, money and time in the same system 2. calculate accurately to two decimal places, using the correct units 3. recognise and make use of simple scales on maps and drawings. Teaching ideas and resources here				GCSE grade 1-3

	<ul style="list-style-type: none"> · Compare measures of capacity including millilitres and litres. 					
Extension Opportunities	<p>convert between units of length, weight and capacity in metric and imperial systems</p> <p>calculate using these units accurately to three decimal places</p> <p>read and use effectively conversion factors and conversion graphs.</p>			Level 2		
Additional Teacher Notes	<p>Learners are required to extract information given in relevant real-world contexts</p> <p>Learners are required to obtain and present results, and check their own working to an appropriate level of accuracy necessary for the specific task</p> <p>Learners are required to show working in order to gain marks. This working rationalises the answer they present.</p> <p>Learners may be expected to make a yes/no decision or give a short answer</p>					

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<p>22. Calculate the area and perimeter of simple shapes including those that are made up of a combination of rectangles</p> <p>23. Calculate the volumes of cubes and cuboids</p>	<p>Compare metric measures of length including millimetres, centimetres, metres and kilometres.</p>	<ol style="list-style-type: none"> work out the perimeter of simple shapes including those that are made up of a combination of rectangles work out the area of simple shapes including those that are made up of a combination of rectangles calculate the volumes of cubes and cuboids calculate accurately to two decimal places, using the correct units. <p>Teaching ideas and resources here</p>				GCSE grade 1-3
Extension Opportunities		<p>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> <p>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>			Level 2	

Additional Teacher Notes	<p>Learners are required to extract information given in relevant real-world contexts</p> <p>Learners are required to obtain and present results, and check their own working to an appropriate level of accuracy necessary for the specific task</p> <p>Learners are required to show working in order to gain marks. This working rationalises the answer they present.</p> <p>Learners may be expected to make a yes/no decision or give a short answer</p>
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<p>24. Draw 2-D shapes and demonstrate an understanding of line symmetry and knowledge of the relative size of angles</p> <p>25. Interpret plans, elevations and nets of simple 3-D shapes</p> <p>26. Use angles when describing position and direction, and measure angles in degrees</p>	<p>Sort 2-D and 3-D shapes using properties including lines of symmetry, length, right angles, angles including in rectangles and triangles.</p>	<ol style="list-style-type: none"> 1. draw common 2-D shapes and identify lines of symmetry 2. place squares of different shading into a symmetrical pattern on a grid 3. draw lines of symmetry on a given shape 4. name common angles and their size (e.g. right angle = 90°, $\frac{3}{4}$ sector in a pie chart has 270° angle) 5. interpret the front elevation and plan of simple 3-D shapes 6. interpret a working net of a cube, cuboid, cylinder, pyramid and prism 7. draw nets of simple 3-D shapes 8. describe position or direction using angles, including bearings 9. measure angles in degrees. <p>Teaching ideas and resources here</p>				GCSE grade 1-3

Extension Opportunities	<p>Use coordinates in 2-D, positive and negative, to specify the positions of points</p> <p>Calculate values of angles and/or coordinates with 2-D and 3-D shapes</p>			Level 2	
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<p>27. Represent discrete data in tables, diagrams and charts including pie charts, bar charts and line graphs</p> <p>28. Group discrete data and represent grouped</p>	<p>Extract information from lists, tables, diagrams and charts and create frequency tables</p> <p>Interpret information, to make comparisons and record changes, from different formats including bar charts and simple line graphs.</p> <p>Organise and represent information in appropriate ways</p>	<ol style="list-style-type: none"> extract and interpret information from tables, diagrams, charts and graphs recognise features of charts to summarise and compare sets of data represent discrete data in tables, diagrams and charts including pie charts, bar charts and line graphs group discrete data and represent grouped data graphically. <p>Teaching ideas and resources here</p>				GCSE grade 1-3

<p>data graphically</p>	<p>including tables, diagrams, simple line graphs and bar charts.</p>					
<p>Extension Opportunities</p>	<p>Calculate the median and mode of a set of quantities</p> <p>Estimate the mean of a grouped frequency distribution from discrete data</p> <p>Use the mean, median, mode and range to compare two sets of data</p>			<p>Level 2</p>		
<p>Additional Teacher Notes</p>	<p>Learners are required to extract information given in relevant real-world contexts</p> <p>Learners are required to obtain and present results, and check their own working to an appropriate level of accuracy necessary for the specific task</p> <p>Learners are required to show working in order to gain marks. This working rationalises the answer they present.</p> <p>Learners may be expected to make a yes/no decision or give a short answer</p>					

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28. Find the mean and range of a set of quantities	Add, subtract, multiply and divide integers	<ol style="list-style-type: none"> 1. analyse information presented in different ways and apply simple statistics to interpret it 2. work out the mean of a set of quantities 3. work out the range of a set of quantities. <p>Teaching ideas and resources here</p>				GCSE grade 1-3
Extension Opportunities	<p>Calculate the median and mode of a set of quantities</p> <p>Estimate the mean of a grouped frequency distribution from discrete data</p> <p>Use the mean, median, mode and range to compare two sets of data</p>			Level 2		

Additional Teacher Notes	<p>Learners are required to extract information given in relevant real-world contexts</p> <p>Learners are required to obtain and present results, and check their own working to an appropriate level of accuracy necessary for the specific task</p> <p>Learners are required to show working in order to gain marks. This working rationalises the answer they present.</p> <p>Learners may be expected to make a yes/no decision or give a short answer</p>
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<p>29. Understand probability on a scale from 0 (impossible) to 1 (certain) and use probabilities to compare the likelihood of events</p> <p>30. Use equally likely outcomes to find the probabilities of simple events and express them as fractions</p>	Fractions	<ol style="list-style-type: none"> 1. understand probability on a scale from 0 (impossible) to 1 (certain) 2. show probability as a fraction 3. use equally likely outcomes to find the probabilities of simple events. <p>Teaching ideas and resources here</p>				GCSE grade 1-3
Extension Opportunities		Work out the probability of combined events including the use of diagrams and tables, including two-way tables			Level 2	

	Express probabilities as fractions, decimals and percentages				
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