

MATHS Functional Skills Content Tracker – Entry 1 to Level 2

	Entry 1	Entry 2	Entry 3	Level 1	Level 2
Numbers and the Number System	<p>Read, write and order numbers up to 20</p> <p>Use whole numbers to count up to 20 items including 0</p> <p>Recognise and interpret the symbols +, - and =</p>	<p>Count reliably up to 100 items</p> <p>Read, write, order and compare numbers up to 200</p> <p>Recognise and sequence odd and even numbers up to 100</p> <p>Recognise and interpret the symbols + - x ÷ =</p> <p>Add and subtract two-digit numbers</p> <p>Multiply whole numbers in the range 0x0 and 12x12 (times tables)</p> <p>Know the number of hours in a day and weeks in a year. Be able to name and sequence</p> <p>Divide two-digit whole numbers by single-digit</p>	<p>Count, read, write, order and compare numbers up to 1000</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> <p>Approximate by rounding numbers less than 1000 to the nearest 10 or 100 and use this rounded answer to check results</p> <p>Recognise and continue linear sequences of numbers up to 100</p>	<p>Read, write, order and compare large numbers (up to one million)</p> <p>Recognise and use positive and negative numbers</p> <p>Multiply and divide whole numbers and decimals by 10, 100, 1000</p> <p>Use multiplication facts and make connections with division facts</p> <p>Use simple formulae expressed in words for one or two-step operations</p> <p>Calculate the squares of one-digit and two-digit numbers</p> <p>Follow the order of precedence of operators</p>	<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> <p>Evaluate expressions and make substitutions in given formulae in words and symbols</p> <p>Identify and know equivalence between fractions, decimals and percentages</p> <p>Work out percentages of amounts and express one amount as a percentage of another</p> <p>Calculate percentage change (any size increase and decrease)</p>

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		<p>whole numbers and express remainders</p> <p>Approximate by rounding to the nearest 10 and use this rounded answer to check results</p> <p>Recognise simple fractions (halves, quarters, tenths) of whole numbers and shapes</p> <p>Read, write and use decimals to one decimal place</p>	<p>Read, write and use decimals up to two decimal places</p> <p>Recognise and continue sequences that involve decimals</p>	<p>Read, write, order and compare decimals up to three decimal places</p> <p>Add, subtract, multiply and divide decimals up to two decimal places</p> <p>Approximate by rounding to a whole number or to one or two decimal places</p> <p>Read, write, order and compare percentages in whole numbers</p> <p>Calculate percentages of quantities, including simple percentage increases and decreases by 5% and multiples thereof</p> <p>Estimate answers to calculations using fractions and decimals</p> <p>Work with simple ratio and proportions</p>	<p>and original value after percentage change</p> <p>Order, add, subtract and compare amounts or quantities using proper and improper fractions and mixed numbers</p> <p>Express one number as a fraction of another</p> <p>Order, approximate and compare decimals</p> <p>Add, subtract, multiply and divide decimals up to three decimal places</p> <p>Understand and calculate using ratios, direct proportion and inverse proportion</p> <p>Follow the order of precedence of operators including indices</p>
Shape, Space and Measure	Recognise coins and notes and write them in numbers with the	Calculate money with pence up to one pound and in whole pounds of	Calculate with money using decimal notation and express money	Calculate simple interest in multiples of	Calculate amounts of money, compound interest, percentage

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	<p>correct symbols (£ p) where these involve numbers up to 20</p> <p>Read 12 hour digital and analogue clocks in hours</p> <p>Know the number of days in a week, months, seasons. Be able to name and sequence these</p> <p>Describe and make comparisons in words between measures of items including size, length, width, height, weight, capacity</p> <p>Identify and recognise common 2D and 3D shapes including circle, cube, rectangle, square, triangle</p> <p>Use everyday positional vocabulary to describe position and direction including left, right, in front,</p>	<p>multiple items and write with the correct symbols (£ or p)</p> <p>Read and record time in common date formats, and read time displayed on analogue clocks in hours, half hours and quarter hours, and understand hours from a 24-hour digital clock</p> <p>Use metric measures of length including millimetres, centimetres, metres and kilometres</p> <p>Use measures of weight including grams and kilograms</p> <p>Use measures of capacity including millilitres and litres</p> <p>Read and compare positive temperatures</p>	<p>correctly in writing pounds and pence</p> <p>Round amounts of money to the nearest £1 or 10p</p> <p>Read, measure and record time using AM and PM</p> <p>Read time from analogue and 24 hour digital clocks in hours and minutes</p> <p>Use and compare measures of length, capacity, weight and temperature using metric or imperial units to the nearest labelled or unlabelled division</p> <p>Compare metric measures of length including millimetres, centimetres, metres and kilometres</p> <p>Compare measures of weight including grams and kilograms</p>	<p>5% on amounts of money</p> <p>Calculate discounts in multiples of 5% on amounts of money</p> <p>Convert between units of length, weight, capacity, money and time, in the same system</p> <p>Recognise and make use of simple scales on maps and drawings</p> <p>Calculate the area and perimeter of simple shapes including those that are made up of a combination of rectangles</p> <p>Calculate the volumes of cubes and cuboids</p> <p>Draw 2D shapes and demonstrate an understanding of line symmetry and knowledge of the relative size of angles</p>	<p>increases, decreases and discounts including tax and simple budgeting</p> <p>Convert between metric and imperial units of length, weight and capacity using a) a conversion factor and b) a conversion graph system</p> <p>Calculate using compound measures including speed, density and rates of pay</p> <p>Calculate perimeters and areas of 2D 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 3D shapes including cylinders (formulae to be given</p>
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	<p>behind, under and above</p>	<p>Read and use simple scales to the nearest labelled division</p> <p>Recognise and name 2D and 3D shapes including pentagons, hexagons, cylinders, cuboids, pyramids and spheres</p> <p>Describe the properties of common 2D and 3D shapes including numbers of sides, corners, edges, faces, angles and base</p> <p>Use appropriate positional vocabulary to describe position and direction including between, inside, outside, middle, below, on top, forwards and backwards</p>	<p>Compare measures of capacity including millilitres and litres</p> <p>Use a suitable instrument to measure mass and length</p> <p>Sort 2D and 3D shapes using properties including lines of symmetry, length, right angles, angles including in rectangles and triangles</p> <p>Use appropriate positional vocabulary to describe position and direction including eight compass points and including full/half/quarter turns</p>	<p>Interpret plans, elevations and nets of simple 3D shapes</p> <p>Use angles when describing position and direction, and measure angles in degrees</p>	<p>for 3D shapes other than cylinders)</p> <p>Calculate actual dimensions from scale drawings and create a scale diagram given actual measurements</p> <p>Use coordinates in 2D, positive and negative, to specify the positions of points</p> <p>Understand and use common 2D representations of 3D objects</p> <p>Draw 3D shapes to include plans and elevations</p> <p>Calculate values of angles and/or coordinates with 2D and 3D shapes</p>
<p>Handling Information and Data</p>	<p>Read numerical information from lists</p> <p>Sort and classify objects using a single criterion</p>	<p>Extract information from lists, tables, diagrams, and bar charts</p>	<p>Extract information from lists, tables, diagrams and charts and create frequency tables</p>	<p>Represent discrete data in tables, diagrams and charts including pie charts, bar charts and line graphs</p>	<p>Calculate the median and mode of a set of quantities</p> <p>Estimate the mean of a grouped frequency</p>

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	<p>Read and draw simple bar charts and diagrams including a tally chart, block diagram/graph</p>	<p>Make numerical comparisons from bar charts</p> <p>Sort and classify objects using two criteria</p> <p>Take information from one format and represent the information in another format including use of bar charts</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 including tables, diagrams, simple line graphs and bar charts</p>	<p>Group discrete data and represent grouped data graphically</p> <p>Find the mean and range of a set of quantities</p> <p>Understand probability on a scale from 0 (impossible) to 1 (certain) and use probabilities to compare likelihood of events</p> <p>Use equally likely outcomes to find the probabilities of simple events and express them as fractions</p>	<p>distribution from discrete data</p> <p>Use the mean, median, mode and range to compare two sets of data</p> <p>Work out the probability of combined events including the use of diagrams and tables, including two-way tables</p> <p>Express probabilities as fractions, decimals and percentages</p> <p>Draw and interpret scatter diagrams and recognise positive and negative correlation</p>
<p>Solving Mathematical Problems and Decision Making</p>	<p>Use given mathematical information and recognise and use simple mathematical terms</p> <p>Use methods given above to produce,</p>	<p>Use given mathematical information including numbers, symbols, simple diagrams and charts</p>	<p>Use given mathematical information including numbers, symbols, simple diagrams and charts</p>	<p>Read, understand and use mathematical information and mathematical terms</p> <p>Address individual problems as described above</p>	<p>Read, understand and use mathematical information and mathematical terms</p> <p>Address individual problems as described above</p>

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	<p>check and present results that make sense</p> <p>Provide a simple explanation for those results</p>	<p>Recognise, understand and use simple mathematical terms</p> <p>Use the methods given above to produce, check and present results that make sense</p> <p>Present approximate explanations using numbers, measures, simple diagrams, simple charts and symbols</p>	<p>Recognise, understand and use simple mathematical terms</p> <p>Use the methods given above to produce, check and present results that make sense to an appropriate level of accuracy</p> <p>Present results with appropriate and reasoned explanation using numbers, measures, simple diagrams, charts and symbols</p>	<p>Use knowledge and understanding to a required level of accuracy</p> <p>Analyse and interpret answers in the context of the original problem</p> <p>Check the sense and reasonableness of answers</p> <p>Present results with appropriate explanation and interpretation demonstrating simple reasoning to support the process and show consistency with the evidence presented</p>	<p>Use knowledge and understanding to a required level of accuracy</p> <p>Identify suitable operations and calculations to generate results</p> <p>Analyse and interpret answers in the context of the original problem</p> <p>Check the sense and reasonableness of answers</p> <p>Present results with appropriate explanation and interpretation demonstrating simple reasoning to support the process and show consistency with the evidence presented</p>
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