



Maths Curriculum - Year 4 - Key Skills Areas

Number and Place Value:

	Counting	Writing Numbers	Representing Numbers	Place Value	Comparing and Ordering	Rounding	Problems
Year 4	<ul style="list-style-type: none">count in multiples of 6, 7, 9, 25 and 1000count backwards through zero to include negative numbers	<ul style="list-style-type: none">read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.	<ul style="list-style-type: none">identify, represent and estimate numbers using different representations	<ul style="list-style-type: none">recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)	<ul style="list-style-type: none">find 1000 more or less than a given numberorder and compare numbers beyond 1000	<ul style="list-style-type: none">round any number to the nearest 10, 100 or 1000	<ul style="list-style-type: none">solve number and practical problems that involve all of the above and with increasingly large positive numbers



Multiplication and Division:

	Number Statements	Mental Recall	Written Calculations	Relationships	Numbers	Problems
Year 4	<ul style="list-style-type: none"> Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers 	<ul style="list-style-type: none"> Recall multiplication and division facts for multiplication tables up to 12 x 12 Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers 	<ul style="list-style-type: none"> Multiply two-digit and three-digit numbers by a one-digit number using formal written layout 		<ul style="list-style-type: none"> Recognise and use factor pairs and commutatively in mental calculations 	<ul style="list-style-type: none"> Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as which n objects are connected to m objects.

Examples: Written Methods:

Children should build on their knowledge of multiplication from Year 3 and develop their understanding of Formal Short Multiplication.

Children can continue to use the Expanded Method as an interim step if needed.

3	5	3	x	4					
3	0	0	+	5	0	+	3		
			x				4		
						1	2		
			+			2	0	0	
						1	2	0	0
						1	4	1	2

Interim Step (if required)

The three-digit number should be partitioned clearly.

				3	5	3			
					x	4			
				1	4	²	1	¹	2

By the end of Year 4, children should be using Formal Short Multiplication confidently to multiply 2 and 3 digit numbers by a single digit.

Children need to be confident with 'carrying' tens in Formal addition before moving onto the Expanded method or the Formal method.

Written Methods:

Children should continue to use Formal Short Division with increasingly larger numbers.

				2	1	8				
				0	3	7	r		2	
4				8	7	³	2			
	5			1	¹	8	³	7		



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Fractions:

	Recognising Fractions	Decimals	Finding FDP	Links to Place Value	Comparing and Ordering FDP	Operations	Problems
Year 4	<p>Recognise and show, using diagrams, families of common equivalent fractions</p> <p>Count up and down in hundredths; recognise that hundredths arise when dividing an object by a hundred and dividing tenths by ten</p>	<p>Recognise and write decimal equivalents to $\frac{1}{4}$; $\frac{1}{2}$; $\frac{3}{4}$</p> <p>Recognise and write decimal equivalents of any number of tenths or hundredths</p> <p>Round decimals with one decimal place to the nearest whole number</p>	<p>Count up and down in hundredths; recognise that hundredths arise when dividing an object by a hundred and dividing tenths by ten</p> <p>Solve problems involving increasingly harder fractions to calculate quantities, including non-unit fractions where the answer is a whole number</p>	<p>Count up and down in hundredths; recognise that hundredths arise when dividing an object by a hundred and dividing tenths by ten</p> <p>Find the effect of dividing a one or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths</p>	<p>Recognise and write decimal equivalents of any number of tenths or hundredths</p> <p>Compare numbers with the same number of decimal places up to two decimal places</p>	<p>Add and subtract fractions with the same denominator.</p>	<p>Solve problems involving increasingly harder fractions to calculate quantities, including non-unit fractions where the answer is a whole number</p> <p>Solve simple measures and money problems involving fractions and decimals to two decimal places</p>



Non Key Skills Areas:

Geometry:

	2D Shapes	3D Shapes	Symmetry	Angles	Coordinates	Translations	Problems
Year 4	Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes		Identify lines of symmetry in 2-D shapes presented in different orientations Complete a simple symmetric figure with respect to a specific line of symmetry.	Identify acute and obtuse angles and compare and order angles up to two right angles by size	Describe positions on a 2-D grid as coordinates in the first quadrant Plot specified points and draw sides to complete a given polygon.	Describe movement between positions as translations of a given unit to the left/right and up/down	

Measures:

	Measuring	Units	Money	Area	Perimeter	Capacity	Time	Problems
Year 4	Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres	Convert between different units of measure (e.g. kilometre to metre; hour to minute) Estimate, compare and calculate different measures, including money in pounds and pence		Find the area of rectilinear shapes by counting	Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres		Read, write and convert time between analogue and digital 12 and 24-hour clocks	Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days



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Statistics:

	Constructing Graphs	Interpreting Graphs	Tables	Averages	Problems
Year 4	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs			Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs .