Key Learning Coverage – Year 4

This table shows where the Key Learning is explicitly taught.

Teachers should take every opportunity to combine the learning from different areas of the mathematics curriculum, for example, using a measurement context when calculating and also to revisit learning on a regular basis through Starter sessions.

Key Learning: Number and Place Value	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
• Count in multiples of 6, 7, 9, 25 and 1000		Wk 1 – 6 and 9	Wk 1 – 6, 8, 25 and 1000	Wk 3 - 7	Wk 1		
Count backwards through zero to include negative numbers			Wk 1		Wk 1		
Count up and down in hundredths	Wk 2				Wk 1		
Read and write numbers to at least 10 000	Wk 1	Ongoing					
Read and write numbers with up to two decimal places	Wk 2			Ongoing			
Recognise the place value of each digit in a four-digit number	Wk 1			Wk 2		Wk 1	
Identify the value of each digit to two decimal places	Wk 2			Wk 2	Wk 2		
• Partition numbers in different ways (e.g. 2.3 = 2+0.3 & 1+1.3)	Wks 3 and 4	Wk 2	Ongoing particularly when selecting the most appropriate method of calculation			Wk 4	
• Identify, represent and estimate numbers using different representations (including the number line)	Wk 1			Wk 2		Wk 1	
Order and compare numbers beyond 1000	Wk 1			Wk 2		Wk 1	
Order and compare numbers with the same number of decimal places up to two decimal places	Wk 2	Or	ngoing in Starters Wk 2				
• Find 0.1, 1, 10, 100 or 1000 more or less than a given number	Wk 1			Wk 2			
Round any number to the nearest 10, 100 or 1000	Wk 1			Wk 2		Wk 1	
Round decimals (one decimal place) to the nearest whole number	Wk 2				Wk 2		
Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer	Wk 2				Wk 2		
 Describe and extend number sequences involving counting on or back in different steps, including sequences with multiplication and division steps 			Wk 1		Wks 1 and 6		
Read Roman numerals to 100 and know that over time, the numeral system changed to include the concept of zero and place value			Wk 1	Or	ers		
Solve number and practical problems that involve all of the above and with increasingly large positive numbers	Wk 1			Wk 2		Wk 1	
Key Learning: Number - Addition and Subtraction	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method)	Wks 3 and 4		Wk 6			Wk 3	
Select a mental strategy appropriate for the numbers involved in the calculation	Wks 3 and 4	Ongoi	ng when calcu	Wk 3			
Recall and use addition and subtraction facts for 100	Ongoing when calculating and in Starters						

Recall and use +/- facts for multiples of 100 totalling 1000	Ongoing when calculating and in Starters						
Derive and use addition and subtraction facts for 1 and 10 (with decimal numbers to one decimal place)	Ongoing when calculating and in Starters						
Add and subtract mentally combinations of two and three digit numbers and decimals to one decimal place	Wk 4	Wk 4 Ongoing when calculating and in Starters					
 Add and subtract numbers with up to 4 digits and decimals with one decimal place using the formal written methods of columnar addition and subtraction where appropriate 	Wks 3 and 4		Wk 6	Wk 5		Wk 3	
Estimate; use inverse operations to check answers to a calculation	Wks 3 and 4		Wk 6			Wk 3	
Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why	Wk 4		Wk 6			Wk 3	
Solve addition and subtraction problems involving missing numbers		Ongoing when calculating and in Starters					
Key Learning: Number - Multiplication and Division	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
 Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method) 		Wk 3		Wks 1 and 3		Wk 4	
Select a mental strategy appropriate for the numbers involved in the calculation		Wks 1 and 2	Wk 3	Wk 1		Wk 4	
Recognise and use factor pairs and commutativity in mental calculations		Wk 1		Wk 1		Wk 4	
ullet Recall multiplication and division facts for multiplication tables up to 12 $ imes$ 12		Wks 1 and 2 – 6x and 9x		Wk 1 – 7x and 11x	Wk 6 – 12x		
Use partitioning to double or halve any number, including decimals to one decimal place		Wk 1		Wk 1			
 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 		Wk 1 x Wk 2 ÷		Wk 1		Wk 4	
Multiply two-digit and three-digit numbers by a one-digit number using formal written layout		Wk 3		Wk 3		Wk 4	
 Divide numbers up to 3 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context 	Link to find	ling fractions	of amounts	Wk 1	Wk 3		
 Use estimation and inverse to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy 		Wk 3	Wk 3	Wks 1 and 3		Wk 4	
 Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, division (including interpreting remainders), integer scaling problems and harder correspondence problems such as n objects are connected to m objects 		Wk 3 x		Wk 3		Wk 4	
Key Learning: Number - Fractions	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
• Understand that a fraction is one whole number divided by another (e.g. $\frac{3}{4}$ can be interpreted as $3 \div 4$)			Wk 2		Wk 3		
 Recognise, find and write fractions of a discrete set of objects including those with a range of numerators and denominators 			Wk 3	Link to division in context			

Recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten	Wk 2					
Count on and back in steps of unit fractions			Wk 2	Ongoing in Starters		
Compare and order unit fractions and fractions with the same denominators (including on a number line)			Wk 2	0	ers	
Recognise and show, using diagrams, families of common equivalent fractions			Wk 2	0	ers	
Recognise and write decimal equivalents of any number of tenths or hundredths			Wk 2		Wk 2	
• Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$			Wk 2		Wk 2	
Add and subtract fractions with the same denominator (using diagrams)			Wk 2	Ongoing in Starters		
 Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number 			Wk 3		Wk 3	
Solve simple measure and money problems involving fractions and decimals to two decimal places			Wk 3		Wk 2	
Key Learning: Measurement	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Estimate, compare and calculate different measures, including money in pounds and pence		Wk 4 - length			Wk 4 – perimeter, volume and capacity and mass	
• Order temperatures including those below 0°C			Wk 1	0	ngoing in Start	ers
Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres		Wk 4			Wk 4	
Know area is a measure of surface within a given boundary			Wk 5		Wk 5	
Find the area of rectilinear shapes by counting squares			Wk 5		Wk 5	
Convert between different units of measure [e.g. kilometre to metre; hour to minute]		Wk 4 - length			Wk 2	
Read, write and convert time between analogue and digital 12- and 24-hour clocks	Wk 6				Wk 6	
Write amounts of money using decimal notation	Wk 2		Ongoing in problem solving contexts			
• Recognise that one hundred 1p coins equal £1 and that each coin is $\frac{1}{100}$ of £1	Wk 2					
 Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days and problems involving money and measures 	Wk 6	Link to m	Link to multiplication and division			
Key Learning: Geometry - Properties of Shape	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
 Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes 	Wk 5			Wk 4		Wk 5
Identify lines of symmetry in 2-D shapes presented in different orientations	Wk 5			Wk 4		Wk 5

Complete a simple symmetric figure with respect to a specific line of symmetry			Wk 4		Wk 5	Wk 5
Continue to identify horizontal and vertical lines and pairs of perpendicular and parallel lines	Wk 5			Wk 4		Wk 5
Identify acute and obtuse angles and compare and order angles up to two right angles by size	Wk 5			Wk 4		Wk 5
Key Learning: Geometry - Position and Direction	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Describe positions on a 2-D grid as coordinates in the first quadrant			Wk 4	Wk 4	Wk 5	
Plot specified points and draw sides to complete a given polygon			Wk 4	Wk 4	Wk 5	
Describe movements between positions as translations of a given unit to the left/right and up/down			Wk 4		Wk 5	
Key Learning: Statistics	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
 Use a variety of sorting diagrams to compare and classify numbers and geometric shapes based on their properties and sizes 	Wk 5			Wk 4		Wk 5
• Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts, time graphs		Wk 5		Wk 5		Wk 2
 Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs 		Wk 5		Wk 5		Wks 2 and 3