The Maths Component Curriculum – Year 4

What do we want our children to know and remember? (Key objectives taken from the National Curriculum)

YEAR 4	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Autumn 1	**Year 3 Recap**	**Number and place value** • [KEY] Count in multiples of 6, 7, 9, 25 and 1000. • Identify, represent and estimate numbers using different representations. • Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens and ones) • [KEY] order and compare numbers beyond 1000 • [KEY] round any number to the nearest 10, 100 or 1000		**Addition and subtraction** • Add and subtract numbers with up to 4 digits using formal written methods of columnar addition and subtraction where appropriate.	**Multiplication and division** • [KEY] Recall multiplication and division facts for multiplication tables up to 12x12] • Use place value, known and derived facts to multiply and divide mentally, including: dividing by 1. • Recognise and use factor pairs and commutativity in mental calculations.	**Test week**	**Multiplication and division** • Multiply two-digit and three-digit numbers by a one-digit number using formal written layout. • Divide two-digit and three-digit numbers by a one-digit number using formal written layout.
Autumn 2	**Fractions** • [KEY] Recognise and show, using diagrams, families of common equivalent fractions. • Add and subtract fractions with the same denominator		**Measure** • Measure and calculate the perimeter of a rectilinear figure (including squares) in cm and m. • Read, write and convert time between analogue and digital 12- and 24-hour clocks. • Find the area of rectilinear shapes by counting squares.		**Shape and position** • [KEY] Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. • [KEY] Identify lines of symmetry in 2D shapes presented in different orientations. • Complete a simple symmetric figure with respect to a specific line of symmetry.		**Statistics** • Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. • [KEY] Solve comparison, sum and difference problems using information presented in bar charts,

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					pictograms, tables and other graphs
Spring 1	**Number and place value** • Find 1000 more or less than a given number • Solve number and practical problems that involve rounding, ordering and exploring negative numbers with increasingly large positive numbers • [KEY] Count backwards through zero to include negative numbers		**Addition and subtraction** • [KEY] Solve addition and subtraction two-step problems in contexts, deciding which operation and methods to use and why. • Estimate and use inverse operations to check answers to a calculation.	**Multiplication and division** • [KEY] Recall multiplication and division facts for multiplication tables up to 12x12] • Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1 • Use place value, known and derived facts to multiply and divide mentally, including; multiplying together three numbers. • 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 *n* objects are connected to *m* objects.	
Spring 2	**Shape and position** • Identify acute and obtuse angles and compare and order angles up to two right angles by size.	**Test week**	**Fractions** • 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 • Recognise and write decimal equivalents of any number of tenths and hundredths • Recognise and write decimal equivalents to 1/4, 1/2, 3/4 • [KEY] Solve simple measure and money problems involving fractions and decimals to two decimal places.	**Measure** • Estimate, compare and calculate different measures, including money in £ and p. • [KEY] Convert between different units of measure [for example, km to m; hour to minute]	**Statistics** • [KEY] Continue to solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs
Summer 1	**Number and place value** • 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.	**Addition and subtraction** • [KEY] Continue to solve addition and subtraction two-step problems in contexts, deciding which operation and methods to use and why. • Continue to estimate and use inverse operations	**Multiplication and division** • [KEY] Continue to recall multiplication and division facts for multiplication tables up to 12x12 • Continue to 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 *n* objects are connected to *m* objects.	**Fractions** • [KEY] Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. • 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. • [KEY] Round decimals with one decimal place to the nearest whole number • Compare numbers with the same number of decimal places up to two decimal places.	

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		to check answers to a calculation.					
Summer 2	**Shape and position** • Describe positions on a 2D grid as coordinates in the first quadrant. • Describe movements between positions as translations of a given unit to the left/right and up/down. • [KEY] Plot specified points and draw sides to complete a given polygon.		**Test week**	**Measure** • Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.	**Statistics** • [KEY] Continue to solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs	**Revision and recap**	**Revision and recap**

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Autumn 1	**Year 3 Recap**					**Test week**	
Autumn 2							
Spring 1							
Spring 2		**Test week**					
Summer 1							
Summer 2			**Test week**				

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