

<i>Autumn Term</i>	<i>Number: Place Value</i>	<i>Number: Addition and Subtraction</i>	<i>Measure: Length and Perimeter</i>
	<p>Count in multiples of 6, 7, 9, 25 and 1000.</p> <p>Find 1000 more or less than a given number.</p> <p>Count backwards through zero to include negative numbers.</p> <p>Recognise the place value of each digit in a four digit number (thousands, hundreds, tens and ones).</p> <p>Order and compare numbers beyond 1000.</p> <p>Identify, represent and estimate numbers using different representations.</p> <p>Round any number to the nearest 10, 100 or 1000.</p> <p>Solve number and practical problems that involve all of the above and with increasingly large positive numbers.</p> <p>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.</p> <hr/> <p><i>RTP - Know that 10 hundreds are equivalent to 1 thousand, and that 1,000 is 10 times the size of 100; apply this to identify and work out how many 100s there are in other four-digit multiples of 100.</i></p> <p><i>Recognise the place value of each digit in four-digit numbers and compose and decompose four-digit numbers using standard and non-standard partitioning.</i></p> <p><i>Reason about the location of any four-digit number in the linear number system, including identifying the previous and next multiple of 1,000 and 100, and rounding to the nearest of each.</i></p> <p><i>Divide 1,000 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 1,000 with 2, 4, 5 and 10 equal parts.</i></p>	<p>Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.</p> <p>Estimate and use inverse operations to check answers to a calculation.</p> <p>Solve addition and subtraction two step problems in contexts, deciding which operations and methods to use and why.</p> <hr/> <p><i>RTP - Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 100).</i></p>	<p>Convert between different units of measure, e.g. km and m.</p> <p>Measure and calculate the perimeter of a rectilinear figure (including squares) in cm and m.</p> <hr/> <p><i>RTP - ki</i></p>

<i>Spring Term</i>	<i>Number: Multiplication and Division</i>	<i>Measure: Area</i>	<i>Number: Fractions</i>	<i>Number: Decimals</i>
	<p>Recall and use multiplication and division facts for multiplication tables up to 12 x 12.</p> <p>Use place value, known facts and derived facts to multiply and divide mentally, including multiplying by 0 and 1, dividing by 0 and 1 and multiplying together 3 numbers.</p> <p>Multiply two digit and three digit numbers by a one digit number using formal written layout.</p> <p>Solve problems involving multiplying and adding including using the distributive law to multiply two digit numbers by one digit numbers, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.</p> <hr/> <p><i>RTP - Multiply and divide whole numbers by 10 and 100 (keeping to whole number quotients); understand this as equivalent to making a number 10 or 100 times the size.</i></p> <p><i>Manipulate multiplication and division equations and understand and apply the commutative property of multiplication.</i></p> <p><i>Understand and apply the distributive property of multiplication.</i></p> <p><i>Recall multiplication and division facts up to and recognise products in multiplication tables as multiples of the corresponding number.</i></p> <p><i>Solve division problems, with two-digit dividends and one-digit divisors that involve remainders, and interpret remainders appropriately according to the context.</i></p>	<p>Find the area of rectilinear shapes by counting squares.</p> <p>Convert between different units of measure (for example, km to m).</p>	<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 one hundred and dividing tenths by ten.</p> <p>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.</p> <p>Add and subtract fractions with the same denominator.</p> <p><i>RTP - Reason about the location of mixed numbers in the linear number system.</i></p> <p><i>Convert mixed numbers to improper fractions and vice versa.</i></p> <p><i>Add and subtract improper and mixed fractions with the same denominator, including bridging whole numbers.</i></p>	<p>Recognise and write decimal equivalents of any number of tenths or hundredths.</p> <p>Find the effect of dividing a one or two digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths.</p>

<i>Summer Term</i>	<i>Number: Decimals</i>	<i>Measure: Money</i>	<i>Measure: Time</i>	<i>Statistics</i>	<i>Geometry: Properties of Shape</i>	<i>Geometry: Position and Direction</i>
	<p>Round decimals with one decimal place to the nearest whole number.</p> <p>Compare numbers with the same number of decimal places up to two decimal places.</p> <p>Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$.</p>	<p>Solve simple measure and money problems involving fractions and decimals to two decimal places.</p> <p>Estimate, compare and calculate different measures, including pounds and pence.</p>	<p>Convert between different units of measure, e.g. hour to minute.</p> <p>Read, write and convert time between analogue and digital 12 and 24 hour clocks.</p> <p>Solve problems involving converting from hours to minutes, minutes to seconds, years to months and weeks to days.</p>	<p>Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.</p> <p>Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</p>	<p>Identify acute and obtuse angles and compare and order up to two right angles by size.</p> <p>Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. Identify lines of symmetry in 2D shapes presented in different orientations.</p> <p>Complete a simple symmetric figure with respect to a specific line of symmetry.</p> <p><i>RTP - Draw polygons, specified by coordinates in the first quadrant, and translate within the first quadrant.</i></p> <p><i>Identify regular polygons, including equilateral triangles and squares, as those in which the side-lengths are equal, and the angles are equal. Find the perimeter of regular and irregular polygons.</i></p> <p><i>Identify line symmetry in 2D shapes presented in different orientations. Reflect shapes in a line of symmetry and complete a symmetric figure or pattern with respect to a specified line of symmetry.</i></p>	<p>Describe positions on a 2D shape grid as coordinates in the first quadrant.</p> <p>Describe movements between positions as translations of a given unit to the left/right and up/down.</p> <p>Plot specified points and draw sides to complete a given polygon.</p>