

	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>
<b>NUMBER &amp; PLACE VALUE</b>	<ul style="list-style-type: none"> <li>count to and across 100, forward and backwards ,beginning with 0 or 1 from any number.</li> <li>count in multiples of 2, 5 and 10.</li> <li>count, read and write numbers to 100 in numerals.</li> <li>say what is one more or one less than any number.</li> <li>read and write numbers from 1 to 20 in numerals and words.</li> <li>identify and represent numbers using objects and pictorial representations including the number line and use the language of: equal to, more than, less than (fewer), most least</li> </ul>	<ul style="list-style-type: none"> <li>count in steps of 2, 3 and 5 from 0, and in tens from any number, forward and backward.</li> <li>read and write numbers to at least 100 in numerals and in words.</li> <li>compare and order numbers from 0 up to 100; using <math>&lt;</math> <math>&gt;</math> <math>=</math> signs.</li> <li>recognise the place value of each digit in a 2-digit number.</li> <li>identify, represent and estimate numbers using different representations, including the number line.</li> <li>use place value and number facts to solve problems.</li> </ul>	<ul style="list-style-type: none"> <li>count from 0 in multiples of 4, 8, 50 and 100.</li> <li>compare and order numbers up to 1,000.</li> <li>read and write numbers to 1,000 in numerals and words.</li> <li>find 10 or 100 more or less than a given number.</li> <li>recognise the place value of each digit in a 3-digit number.</li> <li>identify, represent and estimate numbers using different representations.</li> <li>solve number problems and practical problems using above.</li> </ul>
<b>CALCULATIONS</b>	<ul style="list-style-type: none"> <li>represent and use number bonds and related subtraction facts to 20.</li> <li>add and subtract 1-digit and 2-digit numbers to 20, including zero.</li> <li>read, write and interpret mathematical statements involving addition, subtraction and equals signs.</li> <li>solve one-step problems that involve addition and subtraction, using objects and pictorial representations.</li> <li>solve missing number problems.</li> <li>solve one-step problems involving multiplication and division, by using concrete objects, pictorial representations and arrays.</li> </ul>	<ul style="list-style-type: none"> <li>recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.</li> <li>add and subtract mentally, including: <ul style="list-style-type: none"> <li>A 2-digit number and ones</li> <li>A 2-digit number and tens</li> <li>Two 2-digit numbers</li> <li>Adding three 1-digit numbers</li> </ul> </li> <li>add and subtract numbers using concrete objects and pictorial representations, including: <ul style="list-style-type: none"> <li>A 2-digit number and ones</li> <li>A 2-digit number and tens</li> <li>Two 2-digit numbers</li> <li>Adding three 1-digit numbers</li> </ul> </li> <li>recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.</li> <li>solve problems with addition and subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures.</li> <li>solve problems with addition and subtraction applying my increasing knowledge of mental and written methods.</li> <li>recall and use multiplication and division facts for the 2, 5 and 10x tables, including recognising odd and even numbers.</li> <li>calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication, division and equals signs.</li> <li>solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in context.</li> <li>show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot.</li> <li>show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.</li> </ul>	<ul style="list-style-type: none"> <li>add and subtract mentally, including: <ul style="list-style-type: none"> <li>A 3-digit number and ones</li> <li>A 3-digit number and tens</li> <li>A 3-digit number and hundreds</li> </ul> </li> <li>add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.</li> <li>estimate the answer to a calculation and use inverse operation to check answers.</li> <li>solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</li> <li>recall and use multiplication and division facts for the 3, 4 and 8x tables.</li> <li>write and calculate mathematical statements for multiplication and division using the multiplication tables, including for 2-digit numbers, using mental and progressing to formal written methods.</li> <li>solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which n objects are connected to m objects.</li> </ul>
<b>FRACTIONS</b>	<ul style="list-style-type: none"> <li>recognise, find and name a half of an object, shape or quantity.</li> <li>recognise, find and name a quarter of an object, shape or quantity.</li> </ul>	<ul style="list-style-type: none"> <li>recognise, find, name and write fractions <math>\frac{1}{3}</math>, <math>\frac{1}{4}</math>, <math>\frac{2}{4}</math> and <math>\frac{3}{4}</math> of a length, shape, set of objects or quantity.</li> <li>write simple fractions.</li> <li>recognise the equivalence of <math>\frac{2}{4}</math> and <math>\frac{1}{2}</math>.</li> </ul>	<ul style="list-style-type: none"> <li>count up and down in tenths.</li> <li>recognise that tenths arise from dividing an object into 10 equal parts and in dividing 1-digit numbers or quantities by 10.</li> <li>recognise and can find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.</li> <li>compare and order unit fractions and fractions with the same denominators.</li> <li>add and subtract fractions with the same denominator within one whole.</li> <li>solve problems involving the above.</li> </ul>
<b>MEASUREMENT</b>	<ul style="list-style-type: none"> <li>compare, describe and solve practical problems for lengths and heights; mass/weight; capacity and volume; and time.</li> <li>measure and begin to record lengths and heights; mass/weight; capacity and volume; and time.</li> <li>recognise and know the value of different denominations of coins and notes.</li> <li>tell the time to the hour.</li> <li>tell the time to half past the hour.</li> <li>draw hands on a clock face to show these times.</li> <li>sequence events in chronological order using language.</li> <li>recognise and use language relating to dates, including days, weeks, months and years</li> </ul>	<ul style="list-style-type: none"> <li>compare and order lengths, mass, volume/capacity and record the results using <math>&gt;</math> <math>&lt;</math> and <math>=</math>.</li> <li>choose and use standard units to estimate and measure length/height in any direction in m and cm using rulers.</li> <li>choose and use standard units to estimate and measure mass in kg and g using scales.</li> <li>choose and use standard units to estimate and measure temperature in <math>^{\circ}\text{C}</math> using thermometers.</li> <li>choose and use standard units to estimate and measure capacity in l and ml using measuring vessels.</li> <li>recognise and use symbols for £ and p and combine amounts to make a particular value.</li> <li>find different combinations of coins that equal the same amount of money.</li> <li>tell and write the time to five minutes, including quarter to/past and draw the hands on a clock face to show these times.</li> <li>compare and sequence intervals of time.</li> <li>know the number of minutes in an hour.</li> <li>know the number of hours in a day.</li> <li>solve simple problems in a practical context involving addition and subtraction of money of the same units, including giving change.</li> </ul>	<ul style="list-style-type: none"> <li>compare lengths using m, cm &amp; mm.</li> <li>compare mass using kg &amp; g.</li> <li>compare volume/capacity using l &amp; ml.</li> <li>measure lengths using m, cm &amp; mm.</li> <li>measure mass using kg &amp; g.</li> <li>measure volume/capacity using l &amp; ml.</li> <li>add and subtract lengths using m, cm &amp; mm.</li> <li>add and subtract mass using kg &amp; g.</li> <li>add and subtract volume/capacity using l &amp; ml.</li> <li>tell and write the time from an analogue clock (12 hour clock).</li> <li>tell and write the time from an analogue clock (24 hour clock).</li> <li>tell and write the time from an analogue clock (Roman numerals).</li> <li>estimate and read time with increasing accuracy to the nearest minute.</li> <li>record and compare time in terms of seconds, minutes and hours.</li> <li>use the following vocabulary: o'clock, am, pm, morning, afternoon, noon &amp; midnight.</li> <li>know the number of seconds in a minute.</li> <li>know the number of days in each month, year and leap year.</li> <li>compare the duration of events.</li> <li>measure the perimeter of simple 2D shapes.</li> <li>add and subtract amounts of money to give change, using both £ and p in a practical context.</li> </ul>
<b>GEOMETRY - SHAPES</b>	<ul style="list-style-type: none"> <li>recognise and can name common 2D shapes (rectangles, including squares, circles and triangles.)</li> <li>recognise and can name common 3D shapes (cuboids, including cubes, pyramids and spheres.)</li> </ul>	<ul style="list-style-type: none"> <li>compare and sort common 2D shapes and everyday objects.</li> <li>compare and sort common 3D shapes and everyday objects.</li> <li>identify and describe the properties of 2D shapes, including the number of sides and line of symmetry in a vertical line.</li> <li>identify and describe the properties of 3D shapes including the number of edges, vertices and faces.</li> <li>identify 2D shapes on the surface of 3D shapes.</li> </ul>	<ul style="list-style-type: none"> <li>identify horizontal, vertical lines and pairs of perpendicular and parallel lines.</li> <li>draw 2D shapes.</li> <li>make 3D shapes using modelling materials.</li> <li>recognise 3D shapes in different orientations and describe them.</li> <li>recognise that angles are a property of shape or a description of a turn.</li> <li>identify right angles.</li> <li>recognise that two right angles make a half-turn &amp; three make a three quarter turn.</li> <li>identify whether angles are greater than or less than a right angle.</li> </ul>
<b>GEOMETRY POSITION &amp; DIRECTION</b>	<ul style="list-style-type: none"> <li>describe position, directions and movement, including half, quarter and three-quarter turns</li> </ul>	<ul style="list-style-type: none"> <li>order and arrange combinations of mathematical objects in patterns and sequences.</li> <li>use mathematical vocabulary to describe position, direction and movement.</li> </ul>	
<b>STATISTICS</b>		<ul style="list-style-type: none"> <li>interpret and construct simple pictograms.</li> <li>interpret and construct tally charts.</li> <li>interpret and construct block diagrams.</li> <li>interpret and construct simple tables.</li> <li>ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.</li> <li>ask and answer questions about totalling and comparing categorical data.</li> </ul>	<ul style="list-style-type: none"> <li>interpret and present data using bar charts, pictograms and tables.</li> <li>solve one-step and two-step questions using information presented in scaled bar charts, pictograms and tables.</li> </ul>