

## Year 2 Maths Objectives

Mathematical vocabulary	Number and place value	Addition and subtraction	Multiplication and division	Fractions	Measurement	Geometry – properties of shapes	Geometry – position and direction	Statistics
To read and spell mathematical vocabulary, at a level consistent with their increasing word reading and spelling knowledge at key stage 1.	count in steps of 2, 3, and 5 from 0, and in 10s from any number, forward and backward	<p><b>solve problems with addition and subtraction:</b></p> <p>using concrete objects and pictorial representations, including those involving numbers, quantities and measures</p> <p>applying their increasing knowledge of mental and written methods</p>	recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers	recognise, find, name and write fractions $\frac{1}{3}$ , $\frac{1}{4}$ , $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity	choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels	identify and describe the properties of 2-D shapes, including the number of sides, and line symmetry in a vertical line	order and arrange combinations of mathematical objects in patterns and sequences	interpret and construct simple pictograms, tally charts, block diagrams and tables
	recognise the place value of each digit in a two-digit number (10s, 1s)	recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100	calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs	write simple fractions, for example $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$	compare and order lengths, mass, volume/capacity and record the results using >, < and =	identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces	use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise)	ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity

	<p>identify, represent and estimate numbers using different representations, including the number line</p>	<p><b>Add and subtract numbers using concrete objects, pictorial representations, and mentally, including:</b></p> <ul style="list-style-type: none"> <li>• a two-digit number and 1s</li> <li>• a two-digit number and 10s</li> <li>• 2 two-digit numbers</li> <li>• adding 3 one-digit numbers</li> </ul>	<p>show that multiplication of 2 numbers can be done in any order (commutative) and division of 1 number by another cannot</p>		<p>recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value</p>	<p>identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]</p>		<p>ask-and-answer questions about totalling and comparing categorical data</p>
	<p>compare and order numbers from 0 up to 100; use &lt;, &gt; and = signs</p>		<p>solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts</p>		<p>find different combinations of coins that equal the same amounts of money</p>	<p>compare and sort common 2-D and 3-D shapes and everyday objects</p>		
	<p>read and write numbers to at least 100 in numerals and in words</p>	<p>show that addition of 2 numbers can be done in any order (commutative) and subtraction of 1 number from another cannot</p>			<p>solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change</p>			

	use place value and number facts to solve problems	recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems			compare and sequence intervals of time			
					tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times			
					know the number of minutes in an hour and the number of hours in a day			