

# Mathematics Target Sheet -Year 2

## Year 2 Expectations

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Number and Place Value	Counting	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward
	Comparing Numbers	compare and order numbers from 0 up to 100; use $<$ , $>$ and $=$ signs
	Identifying, Representing and Estimating Numbers	identify, represent and estimate numbers using different representations, including the number line
	Reading and Writing Numbers	read and write numbers to at least 100 in numerals and in words
	Understanding Place Value	recognise the place value of each digit in a two-digit number (tens, ones)
	Problem Solving	use place value and number facts to solve problems
Number: Addition and Subtraction	Number bonds	recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100
	Mental Calculations	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <ul style="list-style-type: none"> <li>* a two-digit number and ones</li> <li>* a two-digit number and tens</li> <li>* two two-digit numbers</li> </ul> adding three one-digit numbers  show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot
	Written Methods	
	Inverse Operations, Estimating and Checking Answers	recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.
	Problem Solving	solve problems with addition and subtraction: <ul style="list-style-type: none"> <li>* using concrete objects and pictorial representations, including those involving numbers, quantities and measures</li> </ul> applying their increasing knowledge of mental and written methods
Number: Multiplication and Division	Multiplication and Division Facts	recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers
	Mental Calculation	show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot
	Written Calculation	calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ( $\times$ ), division ( $\div$ ) and equals ( $=$ ) signs
	Properties of Numbers	
	Order of Operations	
	Inverse Operations,	

	<b>Estimating and Checking Results</b>	
	<b>Problem Solving</b>	solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts
<b>Number: Fractions</b>	<b>Counting in Fractional Steps</b>	
	<b>Recognising Fractions</b>	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
	<b>Comparing Fractions</b> <b>Comparing Decimals</b> <b>Rounding including Decimals</b>	
	<b>Equivalence (Including Fractions, Decimals and Percentages)</b>	write simple fractions e.g. $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$ .
	<b>Addition and Subtraction of Fractions</b>	
	<b>Multiplication and Division of Fractions</b> <b>Problem Solving</b>	
<b>Measurement</b>	<b>Comparing and Estimating</b>	compare and order lengths, mass, volume/capacity and record the results using >, < and =  compare and sequence intervals of time
	<b>Measuring and Calculating</b>	estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as a.m./p.m., morning, afternoon, noon and midnight choose and use appropriate standard units to estimate and measure <b>length/height</b> in any direction (m/cm); <b>mass</b> (kg/g); <b>temperature</b> (°C); <b>capacity</b> (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels  recognise and use symbols for pounds ( <b>£</b> ) and pence ( <b>p</b> ); combine amounts to make a particular value  find different combinations of coins that equal the same amounts of money  <b>solve simple problems</b> in a practical context involving addition and subtraction of money of the same unit, including giving change
	<b>Telling the Time</b>	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.
	<b>Converting</b>	know the number of minutes in an hour and the number of hours in a day.
<b>Geometry: Properties of</b>	<b>Identifying Shapes and their Properties</b>	identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line  identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces  identify 2D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]
	<b>Drawing and Constructing</b>	

	<p><b>Comparing and Classifying</b></p> <p><b>Angles</b></p> <p><b>Position, Direction and Movement</b></p> <p><b>Pattern</b></p>	<p>compare and sort common 2-D and 3-D shapes and everyday objects</p> <p>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)</p> <p>order and arrange combinations of mathematical objects in patterns and sequences</p>
<p><b>Statistics</b></p>	<p><b>Interpreting, Constructing and Presenting Data</b></p>	<p>interpret and construct simple pictograms, tally charts, block diagrams and simple tables</p> <p>ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity</p> <p>ask and answer questions about totalling and comparing categorical data</p>
	<p><b>Solving Problems</b></p>	
<p><b>Algebra</b></p>	<p><b>Equations</b></p> <p><b>Formulae</b></p> <p><b>Sequences</b></p>	<p><i>recognise and use the inverse relationship between addition and subtraction and use this to check calculations and <b>missing number</b> problems.</i></p> <p><i>recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100</i></p> <p><i>compare and sequence intervals of time</i></p> <p><i>order and arrange combinations of mathematical objects in patterns</i></p>