

# YEAR 2 Maths Long Term Plan Overview



## Year 2 Maths Learning Ladders Assessment

<p><b>Addition:</b>                  I know all number facts upto 20                  I can use related facts to add multiples of 10 and 100 e.g. <math>6 + 3 = 9</math> so <math>60 + 30 = 90</math>                  I can partition a number to add using number bonds to 10 (e.g. <math>8 + 7</math> is <math>8 + 2 + 5</math>; <math>57 + 5 = 57 + 3 + 2 = 62</math>)                  I can add multiples of 10 to any number using a 100 grid                  I can add any pair of 2-digit numbers using an unstructured number line (e.g. <math>23 + 12 = 23 + 10 + 2</math>)</p>	<p><b>Subtraction:</b>                  I know all subtraction facts to 20                  I can use related facts to subtract multiples of 10 and 100 e.g. <math>6 - 4 = 2</math> so <math>60 - 40 = 20</math>                  I can subtract a 1 digit number from a 2- digit number using number facts (e.g. <math>52 - 6 = 52 - 2 - 4 = 46</math>)                  I can count back in multiples of 10s from any 2 digit number using a hundred grid                  I can takeaway 10s and 1s from a 2-digit number using an unstructured number line                  I can subtract any pair of 2 digit numbers by counting on (FROG) in 1s and 10s using an unstructured number line</p>	<p><b>Multiplication:</b>                  I can count in 2's, 5's and 10's from zero                  I can count in 3                  I can double numbers to 20 and multiples of 10                  I can multiply using concrete objects, pictorial representations arrays and repeated addition</p>	<p><b>Division:</b>                  Using fingers, I can say where a given number is in the 2s, 5s or 10s e.g. 8 is the fourth number when I count in 2s                  I can halve numbers to 40 and multiples of 10 to 100                  I can relate grouping to division e.g. How many groups of 5 in 2                  I can share a quantity of objects e.g. <math>\frac{1}{2}</math>, <math>\frac{1}{3}</math>, <math>\frac{1}{4}</math></p>	<p><b>Fractions:</b>                  I can 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                  I can recognise the equivalence of <math>\frac{2}{4}</math> to <math>\frac{1}{2}</math>                  I can count in halves and quarters up to 10 recognising that fractions are numbers between whole numbers</p>
<p><b>Time:</b>                  I know how many hours there are in a day and how many minutes in an hour                  I can compare and sequence intervals of time                  I can read and write the time on an analogue clock for quarter past and quarter to                  I can tell and write the time to 5 minutes and draw the hands on a clock face to show these times</p>	<p><b>Measures:</b>                  I can measure using appropriate equipment e.g. ruler, weighing scales, measuring jug                  I can choose appropriate units of measure to estimate length, height, mass and capacity                  I can recognise and use symbols for £ and p                  I can combine amounts to make a particular value e.g. make 3p using a 2p and a 1p                  I can find different combinations of coins that equal the same amount                  I can compare and order measures and record using <math>&lt;</math> <math>&gt;</math> and <math>=</math></p>	<p><b>Place Value</b>                  I can compare and order numbers from 0 up to 100 using <math>&gt;</math> <math>&lt;</math> and <math>=</math> signs                  I can read and write numbers to at least 100 in numerals and words                  I can count in 10s from any number including crossing boundaries into hundreds                  I can understand the value of each digit in a 2 digit number (e.g. tens, ones)</p>	<p><b>Properties of Number</b>                  I can recognise odd and even numbers</p>	<p><b>Position and direction:</b>                  I can order and arrange combinations of mathematical objects in patterns and sequences                  I can use mathematical vocabulary to describe position, direction and movement including movement in a straight line                  I can distinguish between rotation as a turn and in terms of right angles for quarter, half and three quarter turns (clockwise and anti-clockwise)</p>
<p><b>Shape:</b>                  I can identify, describe and sort 2D shapes by naming them, talking about the number of sides and showing a vertical line of symmetry                  I can identify, describe and sort 3D shapes by talking about the number of faces, edges and vertices                  I can identify 2D shapes on the surface of 3D shapes e.g. a circle on a cylinder                  I can compare and sort common 2D and 3D shapes</p>	<p><b>Statistics:</b>                  I can answer simple questions about quantities from looking at tally charts and simple tables                  I can answer simple questions about quantities from looking at pictograms and block charts (scale of 1 or 2)                  I can interpret and construct simple tally charts and tables                  I can interpret and construct simple pictograms and block diagrams                  I can answer questions by comparing information in simple bar charts e.g. Which has the most? How much altogether?</p>		<p><b>Problem Solving:</b>                  I understand the relationship between addition and subtraction (e.g. <math>3 + 7 = 10</math>, <math>10 - 7 = 3</math> and <math>7 = 10 - 3</math>)                  I can solve missing number problems for addition and subtraction with numbers up to 20                  I can solve simple word problems involving addition and subtraction with numbers up to 50                  I can solve multiplication and division problems using pictures and diagrams                  I can solve multiplication and division 1 step word problems using concrete apparatus (2, 5 and 10 times tables only)                  I can solve simple money problems involving addition and finding the change (£ or pence)</p>	