

Maths

Age related expectations Assessment Grid for Maths: Year 2

	Number & Place Value	Addition & Subtraction	Multiplication & Division	Fractions	Measurement	Geometry: Shape Properties	Geometry: Position & Direction	Statistics
Year 2: Emerging	<p>Count in steps of 2 and 5 from 0, and in tens from any number, forward</p> <p>Identify numbers using different representations, including the number line</p> <p>Read numbers to at least 100 in numerals and in words</p>	<p>Solve problems with addition *Using concrete objects and pictorial representations including those involving number, quantities and measures; *applying their increasing knowledge of mental and written methods</p> <p>Recall and use addition facts to 20 and 100: *fluently up to 20 *related facts to 100</p> <p>Add and subtract numbers using concrete objects, pictorial representations, and mentally, including *a two digit number and ones *a two digit number and tens</p>	<p>Recall and use multiplication facts for the 2,5 and 10 multiplication tables</p> <p>Calculate the mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) signs</p>	<p>Recognise, find, name and write fractions $\frac{1}{2}$, $\frac{1}{4}$, of a length, shape, set of objects or quantity</p>	<p>Compare and order lengths, mass, volume/capacity and record the results using >, < and =</p> <p>Recognise and use symbols for pence (p)</p> <p>Compare and sequence intervals of time</p>	<p>Compare and sort common 2d and 3d shapes and everyday objects</p>	<p>Order and arrange combinations of mathematical objects in patterns and sequences</p>	<p>Interpret and construct simple pictograms, tally charts, block diagrams and simple table</p>
Year 2: Meeting	<p>Count in steps of 2,3 and 5 from 0, and in tens from any number, forward and backward</p> <p>Recognise the place value of each digit in a two digit number (tens, ones)</p> <p>Identify, represent and estimate numbers using different representations, including the number line</p> <p>Compare and order numbers from 0 up to 100; use <, > and = signs</p> <p>Read and write numbers to at least 100 in numerals and in words</p> <p>Use place value and number facts to solve problems</p>	<p>Recall and use addition and subtraction facts to 20 and 100: *fluently up to 20 *related facts to 100</p> <p>Add and subtract numbers using concrete objects, pictorial representations, and mentally, including *a two digit number and ones *a two digit number and tens *two two digit numbers; *adding three one digit number</p> <p>Show that addition of two numbers can be done in any order and subtraction of one number from another cannot</p> <p>Solve problems with addition and subtraction *Using concrete objects and pictorial representations including those involving number, quantities and measures; *applying their increasing knowledge of mental and written methods</p> <p>Recognise and use the inverse relationship between + and - and use this to check calculations and solve missing number problems</p>	<p>Recall and use multiplication and division facts for the 2,5 and 10 multiplication tables, including recognising odd and even numbers</p> <p>Show that multiplication of two numbers can be done in any order and that division of one number by another cannot</p> <p>Calculate the mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) 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>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</p> <p>Write simple fractions for example $\frac{1}{2}$ of 6 =3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$</p>	<p>Recognise and use symbols pound (£) and pence (p); combine amounts to make a particular value</p> <p>Find different combinations of coins that equal the same amounts of money</p> <p>Solve simple problems in practical context involving addition and subtraction of money of the same unit, including giving change</p> <p>Know the number of minutes in an hour and the number of hours in a day</p> <p>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</p> <p>Choose and use appropriate standard units to estimate and measure to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels *length/height in any direction (cm/m) *mass (g/kg) *temperature (°C) *capacity (ml/l)</p>	<p>Identify and describe the properties of 2d shapes, including the number of sides and line symmetry in a vertical line</p> <p>Identify and describe the properties of 3d shapes including the number of edges, vertices and faces</p> <p>Identify 2d shapes on the surface of 3d shapes (for example a circle on a cylinder)</p>	<p>Use mathematical vocabulary to describe position, direction and movement, including distinguishing between rotation as a turn and in terms of right angles for quarter, half and three quarter turns (clockwise and anticlockwise), and movement in a straight line</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>
Year 2: Deepening	<p>Use an appropriate strategy to add and subtract numbers that move between and through 100 e.g. 97+7 and 103-8</p>	<p>Add and subtract two 2 digit numbers to 100</p> <p>Apply knowledge of number up to 100 to solve a one-step problem involving addition and subtraction</p> <p>Use the language of sum and difference in context</p>	<p>Apply knowledge of number up to 100 to solve a one-step problem involving multiplication and division</p>	<p>Add and subtract fractions with a common denominator</p> <p>Use fractions with denominators as above to solve problems within the classroom/ outdoor area</p>	<p>Tell the time to 5 minute intervals in both analogue and digital and relate one to the other</p> <p>Measure, compare, add and subtract using common metric measures</p> <p>Apply knowledge of addition and subtraction to pay for items, up to £10, within a problem solving context</p>	<p>Know about right angles and where they can be seen in the environment</p>	<p>Use the above to plan a route around their environment for others to follow</p>	<p>Apply the skills above to other areas of the curriculum</p>