

## Mathematics - Key Learning Indicators

	Number					Algebra	Measurement	Geometry		Statistics
	Number and Place Value	Addition and Subtraction	Multiplication and Division	Fractions including Decimals and Percentages	Ratio and Proportion			Properties of shapes	Position and Direction	
1	<p>Count forwards, backwards and across 100.</p> <p>Find one more and one less than a number.</p> <p>Find 10 more and 10 less than a number.</p> <p>Use the language 'more than' and 'less than' when comparing numbers.</p>	<p>Articulate understanding of number bonds to twenty.</p> <p>Relate part-part-whole model to addition and subtraction.</p> <p>Use knowledge of inverse to solve missing number problems.</p>	<p>Skip count forwards in 2s, 5s and 10s from 0.</p>	<p>Identify <math>\frac{1}{2}</math> and <math>\frac{1}{4}</math> in various contexts.</p> <p>Recognise <math>\frac{2}{4}</math> as <math>\frac{1}{2}</math>.</p>	<p>Describe and create a simple repeating pattern involving number or shape.</p>	<p>Know that an = sign signifies 'is the same as'.</p> <p>Know that a + symbol signifies addition.</p> <p>Know that a – symbol signifies subtraction.</p>	<p>Use comparative language to describe.</p> <p>Use simple equipment to measure length, weight, and capacity.</p> <p>Tell the time to o'clock and half past.</p>	<p>Know common 2-D and 3-D shape names.</p> <p>Describe the properties (sides and angles) of 2D shapes.</p>	<p>Use positional language to describe.</p> <p>To tell left from right.</p>	<p>Record simple frequency in a table.</p>
2	<p>Compare and order numbers from 0 up to 100.</p>	<p>Add and subtract two digit numbers.</p> <p>Bridge through ones.</p> <p>Count in steps of 2 and ten from any number.</p>	<p>Know 2, 3, 5 and 10 multiplication and division facts.</p>	<p>Identify <math>\frac{1}{3}</math>, <math>\frac{2}{4}</math> and in various contexts.</p> <p>Articulate understanding of fractions as equal parts of a whole.</p>	<p>Articulate understanding of a simple ratio.</p>	<p>Articulate understanding of empty box problems.</p> <p>Know that a <math>\times</math> symbol signifies multiplication.</p> <p>Know that a <math>\div</math> symbol signifies division.</p>	<p>Articulate understanding of money.</p> <p>Tell the time to quarter past and quarter to the hour.</p> <p>Choose appropriate standard units of measurement.</p>	<p>Compare common 2-D and 3-D shapes.</p>	<p>Identify <math>\frac{1}{2}</math>, <math>\frac{1}{4}</math>, and <math>\frac{3}{4}</math> turns.</p>	<p>Identify highest and lowest frequencies.</p>
3	<p>Find or 100 more or less than a number</p> <p>Articulate understanding of place value to 3 digits.</p>	<p>Add and subtract three digit numbers.</p> <p>Bridge through tens.</p> <p>Count in steps of 50 and 100 from 0.</p>	<p>Know 4, 6 and 8 multiplication and division facts.</p>	<p>Articulate understanding of tenths.</p> <p>Articulate understanding of the following fractions of amounts <math>\frac{1}{5}</math>, <math>\frac{1}{6}</math>, <math>\frac{1}{8}</math>, <math>\frac{1}{10}</math>.</p> <p>Find <math>\frac{3}{4}</math> of amounts.</p>	<p>Solve one-step ratio and proportion problems.</p>	<p>Articulate understanding that an unknown quantity can be represented by a letter.</p>	<p>Calculate with units of measurement for capacity, length and weight.</p> <p>Measure metric length, capacity and weight accurately.</p> <p>Calculate with money.</p> <p>Tell the time.</p>	<p>Identify right angles.</p>	<p>Understand the relationships between right angles and <math>\frac{1}{2}</math>, <math>\frac{1}{4}</math> and <math>\frac{3}{4}</math> turns.</p>	<p>Use bar charts, pictograms and tables.</p>

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4	<p>Count in steps of 6, 7, 9, 25 and 1000.</p> <p>Articulate understanding of place value to 5 digits.</p> <p>Round any number.</p>	<p>Add and subtract numbers up to 5 digits including decimals.</p>	<p>Know 7, 9, 11 and 12 multiplication and division facts.</p> <p>Multiply and divide numbers up to 4 digits multiplied by 2 digits.</p>	<p>Find equivalent unit fractions.</p> <p>Articulate understanding of hundredths.</p> <p>Find fractions of quantities with a numerator of 1.</p>	<p>Articulate understanding of the relationship between ratio and proportion.</p>	<p>Solve an addition equation with one unknown.</p>	<p>Convert between different units of metric measurement without decimal notation.</p>	<p>Know geometric shapes, including types of quadrilateral and triangle.</p> <p>Identify lines of symmetry.</p>	<p>Plot points using Cartesian coordinates in the first quadrant.</p>	<p>Solve problems using collected data.</p>
5	<p>Articulate understanding of place value to 6 digits.</p>	<p>Estimate answers to addition and subtraction calculations.</p>	<p>Articulate understanding of multiples and factors.</p> <p>Articulate understanding of squares and cubes</p> <p>Estimate answers to multiplication and division calculations.</p>	<p>Compare and order fractions.</p> <p>Articulate understanding of decimals as fractions.</p>	<p>Relate ratio and proportion to fractions.</p>	<p>Apply algebraic knowledge to solve problems.</p>	<p>Articulate understanding and apply knowledge of perimeter.</p> <p>Articulate understanding and apply knowledge of area of rectangles.</p> <p>Convert between metric and imperial units.</p>	<p>Articulate understanding of angles to 360°.</p> <p>Distinguish regular and irregular polygons.</p>	<p>Reflect shapes across a mirror line.</p> <p>Identify order of rotational symmetry.</p>	<p>Understand timetables.</p> <p>Identify the mean of a range of numbers.</p>
6	<p>Articulate understanding of place value beyond six digits.</p> <p>Articulate understanding of negative numbers.</p>	<p>Add and subtract with negative numbers</p>	<p>Represent remainders as numbers, decimals and fractions.</p>	<p>Convert between fractions, decimals and percentages.</p>	<p>Articulate understanding of ratio and proportion.</p>	<p>Use and apply simple formulae.</p>	<p>Convert between different units of measurement with decimal notation.</p>	<p>Find unknown angles in triangles, quadrilaterals and regular polygons.</p> <p>Use <math>\pi</math> to calculate the circumference, radius and diameter of a circle.</p>	<p>Transform shapes in all four quadrants.</p>	<p>Interpret and construct pie charts and line graphs.</p> <p>Identify median, mode and range of numbers.</p>