



Year 2 Mathematics Schema

<u>Year 2</u>		
<u>Autumn Term</u>	<u>Spring Term</u>	<u>Summer Term</u>
Read and write numbers to at least 100 in numerals and in words.		
<u>Number and Place Value</u> *Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward. *Recognise the place value of each digit in a two-digit number (tens, ones). *Identify, represent and estimate numbers using different representations, including the number line. *Compare and order numbers from 0 up to 100; use <, > and = signs. *Read and write numbers to at least 100 in numerals and in words. *Use place value and number facts to solve problems. <u>Addition and Subtraction</u> *Solve problems with addition and subtraction: *Using concrete objects and pictorial representations, including those involving numbers, quantities and measures. *Applying their increasing knowledge of mental and written methods. *Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100. *Add and subtract numbers using concrete objects, pictorial representations, and mentally, including:	<u>Number and Place Value</u> *Use place value and number facts to solve problems. <u>Measurement - Money</u> *Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value. *Find different combinations of coins that equal the same amounts of money. *Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change <u>Multiplication and Division</u> *Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers. *Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs. *Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.	<u>Fractions</u> *Write simple fractions for example, half of 6 = 3 and recognise the equivalence of two quarters and one half. <u>Measurement</u> *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. *Compare and order lengths, mass, volume/capacity and record the results using >, < and =. <u>Geometry - Properties of 3-d Shapes</u> *Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces.



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*A two-digit number and ones. *A two-digit number and tens. *Two two-digit numbers. *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. *Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. <u>Geometry - Properties of 2-d Shapes</u> *Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line.	*Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts. <u>Fractions</u> *Recognise, find, name and write fractions one third, one quarter, two quarters and three quarters of a length, shape, set of objects or quantity	*Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]. *Compare and sort common 2-D and 3-D shapes and everyday objects. <u>Measurement - Time</u> *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. *Compare and sequence intervals of time. <u>Statistics</u> *Interpret and construct simple pictograms, tally charts, block diagrams and simple tables *Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity *Ask and answer questions about totalling and comparing categorical data.
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		<u>Position and Direction</u> *Order and arrange combinations of mathematical objects in patterns and sequences. *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).
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