Spring Vale Primary School

Maths Number

ELG (foundation stage)	YEAR 1	YEAR 2
Have an understanding of number to 10, linking names of numbers, numerals, their value, and their position in the counting order;	Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number	Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward
Subsidise (recognise quantities without counting) up to 5;	Count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens	Recognise the place value of each digit in a two-digit number (tens, ones)
Automatically recall number bonds for numbers 0-5 and for 10, including corresponding partitioning facts.	When given a number, identify one more and one less	Identify, represent and estimate numbers using different representations, including the number line
Automatically recall double facts up to 5+5;	Identify and represent numbers using objects and pictorial representations including the number line, and use the language of equal to, more than, less than (fewer), most, least	Compare and order numbers from 0 up to 100; use and = signs
Compare sets of objects up to 10 in different contexts, considering size and difference;	Read and write numbers from 1 to 20 in numerals and words	Read and write numbers to at least 100 in numerals and in words
Explore patterns of numbers within numbers up to 10, including evens and odds.	Read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs	Use place value and number facts to solve problems.
	Represent and use number bonds and related subtraction facts within 20	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
	Add and subtract one-digit and two-digit numbers to 20, including zero	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100
	Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = – 9.	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 numbers
	Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.	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.
		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
		Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts

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Maths Number Fractions		
ELG	YEAR 1	YEAR 2
N/A	Recognise, find and name a half as one of two equal parts of an object, shape or quantity	Recognise, find, name and write fractions 3 1, 4 1, 4 2 and 4 3 of a length, shape, set of objects or quantity
	Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.	Write simple fractions for example, 2 1 of 6 = 3 and recognise the equivalence of 4 2 and 2 1.

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Maths Statistics		
ELG	YEAR 1	YEAR 2
N/A	N/A	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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Maths measurement		
ELG	YEAR 1	YEAR 2
N/A	Compare, describe and solve practical problems for: - lengths and heights [for example, long/short, longer/shorter, tall/short, double/half] - mass/weight [for example, heavy/light, heavier than, lighter than] - capacity and volume [for example, full/empty, more than, less than, half, half full, quarter] - time [for example, quicker, slower, earlier, later]	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
	Measure and begin to record the following: - lengths and heights - mass/weight - capacity and volume - time (hours, minutes, seconds)	Compare and order lengths, mass, volume/capacity and record the results using >, < and =
	Recognise and know the value of different denominations of coins and notes	Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value
	Sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]	Find different combinations of coins that equal the same amounts of money
	Recognise and use language relating to dates, including days of the week, weeks, months and years	Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change
	Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times	Compare and sequence intervals of time
		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

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Maths Geometry		
ELG	YEAR 1	YEAR 2
N/A	Recognise and name common 2-D shapes	Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line
	Recognise and name common 3-D shapes	Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces
	Describe position, direction and movement, including whole, half, quarter and three-quarter turns.	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.
		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 anticlockwise).