St Austin's RC Primary School

Mathematics Progression Statement KS1

	Year 1	Year 2
Number and place value		
counting (in multiples)	Count to and across 100, forward 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 or backward
	Count in multiples of twos, fives and tens	
read, write, order and compare numbers	Count, read and write numbers to 100 in numerals	Read and write numbers to at least 100 in numerals and in words
	Given a number, identify one more and one less	Compare and order numbers from 0 up to 100; use <, > and = signs
	Read and write numbers from 1 to 20 in numerals and words	
place value; roman numerals		Recognise the place value of each digit in a two-digit number (tens, ones)
identify, represent and estimate; rounding	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	Identify, represent and estimate numbers using different representations, including the number line
number problems		Use place value and number facts to solve problems
Addition, subtraction, multiplication and division (calculations)		
add / subtract mentally	Represent and use number bonds and related subtraction facts within 20	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100
		Add and subtract numbers mentally, including: • a two-digit number and ones • a two-digit number and tens • two two-digit numbers • adding three one-digit numbers
add / subtract using written methods	Add and subtract one-digit and two-digit numbers to 20, including zero	Add and subtract numbers using concrete objects and pictorial representations, including: • a two-digit number and ones • a two-digit number and tens • two two-digit numbers • adding three one-digit numbers
	Read, write and interpret mathematical statements involving addition (+),	

	subtraction (–) and equals (=) signs	
estimate, use inverses and check		recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems
add / subtract to solve problems	Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = ☐ - 9	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
multiply / divide mentally		Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers
multiply / divide using written methods		Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs
solve problems (commutative, associative, distributive and all four operations)	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	Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts
order of operations		Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot
		Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot
Fractions, decimals and percentages		
recognise, find, write, name and count fractions	Recognise, find and name a half as one of two equal parts of a object, shape or quantity	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
	Recognise, find and name a quarter as one of four equal parts of a object, shape or quantity	Write simple fractions [eg: $\frac{1}{2}$ of 6 = 3]
equivalent fractions		Recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$

Measurement		
compare, describe and order measures	Compare, describe and solve practical problems for: • lengths and heights [eg: long/short, longer/ shorter, tall/short, double/half] • mass/weight [eg: heavy/light, heavier than, lighter than] • capacity and volume [eg: full/empty, more than, less than, half, half full, quarter] • time [eg: quicker, slower, earlier, later]	Compare and order lengths, mass, volume/capacity and record the results using >, < and =
estimate, measure and read scales	Measure and begin to record the following: • lengths and heights • mass/weight • capacity and volume • time (hours, minutes, seconds)	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
Money	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
		Find different combinations of coins that equal the same amounts of money
telling time, ordering time, duration and units of time	Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times	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
	Sequence events in chronological order using language [eg: before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]	Compare and sequence intervals of time
	Recognise and use language relating to dates, including days of the week, weeks, months and years	Know the number of minutes in an hour and the number of hours in a day
solve problems (a, money; b, length; c, mass / weight; d, capacity / volume)		Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change
Geometry – properties of shapes		
Recognise and name common shapes	Recognise and name common 2-D shapes [eg: rectangles (including squares), circles and triangles]	Compare and sort common 2-D shapes and everyday objects
	Recognise and name common 3-D shapes [eg: cuboids (including cubes), pyramids and spheres]	Compare and sort common 3-D shapes and everyday objects
describe properties and classify shapes		Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line
		Identify and describe the properties of 3-D shapes including the number of edges, vertices and faces

draw and make shapes and relate 2-D to 3-D shapes (including nets)		Identify 2-D shapes on the surface of 3-D shapes, [eg: a circle on a cylinder and a triangle on a pyramid]
Geometry – position and direction		
patterns		Order and arrange combinations of mathematical objects in patterns and sequences
describe position, direction and movement	Describe position, directions and movement, including half, quarter and three-quarter turns	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 (clock-wise and anti-clockwise)
Statistics		
interpret and represent data		Interpret and construct simple pictograms, tally charts, block diagrams and simple tables
solve problems involving data		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