

Federation of St. Cuthbert's and St. Sebastian's Catholic Primary Schools

MATHEMATICS: CURRICULUM 2019 – 2020



	EYFS	EYFS	YEAR 1	YEAR 2
	(30-50 mths)	(40-60 mths)		
AUTUMN TERM			*read and write numbers using objects and pictorial representations including the number line, and write numbers from 1 to 20 in numerals and write numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least *read and write numbers from 1 to 20 in numerals and words. *Addition & Subtraction *read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs *represent and use number bonds and relate subtraction facts within 20 *add and subtract one-digit and two-digit	*count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or 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 q,G and = signs *read and write numbers to at least 100 in numerals and in words *use place value and number facts to solve problems. *Addition & Subtraction *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
			numbers to 20, including zero *solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = ? - 9.	*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: 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 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 (x), 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
				Fractions * recognise, find, name and write fractions ¼, , and of a length, shape, set of objects or quantity *write simple fractions e.g. of 6 = 3 and recognise the
				equivalence
SPRING	<u>Number</u>	<u>Number</u>	Multiplication & Division	<u>Measurement</u>
TERM	 Beginning to represent numbers using fingers, marks on paper or pictures. Realises not only objects, but anything can be counted, including steps, claps or jumps. 	 Counts out up to six objects from a larger group. Selects the correct numeral to represent 1 to 5, then 1 to 10 objects. 	*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	*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
	• Knows that numbers identify how many	• Counts an irregular arrangement of up		measuring vessels
	objects are in a set. • Sometimes matches numeral and quantity correctly.	to ten objects. • Estimates how many objects they can see and checks by counting them.	*recognise, find and name a half as one of two equal parts of an object, shape or quantity *recognise, find and name a quarter as one of	*compare and order lengths, mass, volume/capacity and record the results using G, q and = *recognise and use symbols for pounds (£) and
		• Uses the language of 'more' and 'fewer' to compare two sets of objects	four equal parts of an object, shape or quantity	pence (p); combine amounts to make a particular value
	Shape, Space and Measures • Shows interest in shapes in the environment.	Shape, Space and Measures	*compare, describe and solve practical problems for: lengths and heights (e.g. long/short,	*find different combinations of coins that equal the same amounts of money

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	Uses shapes appropriately for tasks. Beginning to talk about the shapes of everyday objects, e.g. 'round' and 'tall'.	 Orders two or three items by length or height. Orders two items by weight or capacity. Uses familiar objects and common shapes to create and recreate patterns and build models. Uses everyday language related to time. 	longer/shorter, tall/short, double/half) mass or weight (e.g. heavy/light, heavier than, lighter than) capacity/volume (full/empty, more than, less than, quarter) time (quicker, slower, earlier, later) *Measure and begin to record the following: lengths and heights, mass/weight, capacity and volume, time (hours, minutes, seconds) *recognise and know the value of different denominations of coins and notes *sequence events in chronological order using language such as: before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening *recognise and use language relating to dates, including days of the week, weeks, months and years *tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.	*solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change *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 Geometry Properties of Shape *identify and describe the properties of 2-D shapes, including the number of sides and symmetry in a vertical line *identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces *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. Position and Direction *order and arrange combinations of mathematical objects in patterns *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 threequarter turns (clockwise and anticlockwise), and movement in a straight line.
SUMMER TERM	Number • Shows an interest in number problems. • Shows an interest in representing numbers. • Compares two groups of objects, saying when they have the same number. • Separates a group of three or four objects in different ways, beginning to recognise that the total is still the same. Shape, Space and Measures • Uses positional language. • Shows awareness of similarities of shapes in the environment.	Number • Finds the total number of items in two groups by counting all of them. • Says the number that is one more than a given number. • Finds one more or one less from a group of up to five objects, then ten objects. • In practical activities and discussion, beginning to use the vocabulary involved in adding and subtracting. • Records, using marks that they can interpret and explain. • Begins to identify own mathematical problems based on own interests and fascinations.	Geometry Properties of Shape *recognise and name common 2-D and 3-D shapes, including: *2-D shapes (e.g. rectangles (including squares), circles and triangles) *3-D shapes (e.g. cuboids (including cubes), pyramids and spheres). Position and Direction *describe position, directions and movements, including half, quarter and three-quarter turns Revisited Knowledge	*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. *Revisited Knowledge*

Shape, Space and Measures • Beginning to use everyday language related to money. • Orders and sequences familiar events. • Measures short periods of time in simple ways. Early learning goal - numbers Children count reliably with numbers from one to 20, place them in order and say which number is one more or one less than a given number. Using quantities and objects, they add and subtract two singledigit numbers and count on or back to find the answer. They solve problems, including doubling, halving and sharing. Early learning goal - shape, space and measures Children use everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects and to solve problems. They recognise, create and describe patterns. They explore characteristics of everyday objects and shapes and use mathematical language to describe them.