

## EYFS Mathematics Curriculum

EYFS Mathematics Educational Programme				Reference to KS1 Mathematics Programme of Study		Links to our St. Gabriel's EYFS Curriculum Goals	
Developing a strong grounding in number is essential so that all children develop the necessary building blocks to excel mathematically. Children should be able to count confidently, develop a deep understanding of the numbers to 10, the relationships between them and the patterns within those numbers. By providing frequent and varied opportunities to build and apply this understanding - such as using manipulatives, including small pebbles and tens frames for organising counting - children will develop a secure base of knowledge and vocabulary from which mastery of mathematics is built. In addition, it is important that the curriculum includes rich opportunities for children to develop their spatial reasoning skills across all areas of mathematics including shape, space and measures. It is important that children develop positive attitudes and not be afraid to mathematics, look for patterns and relationships, spot connections, "have a go', talk to adults and peers about what they notice and not be afraid to make mistakes.				The principal focus of mathematics teaching in key stage 1 is to ensure that pupils develop confidence and mental fluency with whole numbers, counting and place value. This should involve working with numerals, words and the four operations, including with practical resources (for example, concrete objects and measuring tools). At this stage, pupils should develop their ability to recongise, describe, draw, compare and sort different shapes and use the related vocabulary. Teaching should also involve using a range of measures to describe and compare different quantities such as length, mass, capacity/volume, time and money. By the end of year 2, pupils should know the number bonds to 2 or and be precise in using and understanding place value. An emphasis on practice at this early stage will alf divency. Pupils should read and spell mathematical vocabulary, at a level consistent with their increasing word reading and spelling knowledge at key stage 1.		To become a Maths Magician who learns practically, plays games, manipulates objects and apparatus and uses key mathematical language when applying their skills To become an Ambitious Learner who steps up to and enjoys a challenge, perseveres when things get tough and works towards achieving outcomes and their own personal goals	
			Progres	sion of learning/skills i	n the area of Mathematics		
Learning/ s	kills prior to	End of Autumn	End of	Spring	End of Summer	Essential learning/skills	
Rece	ption						prior to Year 1
	Number:	Phase 1 – Just Like Me	Phase 4 – Alive in 5!		Phase 7 – To 20 and beyond	Number ELG	Number
We use the		Match two objects or pictures	Know that the number name zero a	and the numeral o means 'nothing'	Consolidate key skills – Subitising, counting, composition, sorting and matching, comparing	Have a deep	
White Rose	Use number	Sort by colour, size, shape, object and more Identify a group that has more/fewer	or 'all gone' Know that o is one less than 1		and ordering Build and identify numbers to 20 and beyond using a range of resources	understanding of	Number and Place Value:
Maths Scheme	names in play	Use the words 'more' and 'fewer' to compare two groups	Compare quantities to 5 using a variety of objects and representations		Know that larger numbers are composed on full 10s and part of the next 10 (10 frames,	number to 10, including	Secure understanding of numbers to
to teach	Use 1-1	Say when two groups have the same/equal amount	Explore the different compositions of 4 and 5 e.g. 4 can be composed		numerals, towers of cubes, bead strings and more)	the composition of each	10, representing numbers up to10 in
Mathematics	correspondence to	Make comparisons of size, mass and capacity using	of 2 and 2 or 3 and 1 or 1, 1, 1 and 1 etc.		Recognise that the numbers 1-9 repeat after every full 10 e.g. 11 is 1 full 10 and 1, 12 is 1 full 10	number	different ways and using language to
in EYFS and	count up to 5	mathematical language	Know that numbers can be composed of 2 parts or more than 2 parts Subitise to 5 without counting		and 2 etc.		compare
throughout	objects	Complete an ABAB pattern Create own ABAB pattern	Estimate which objects is the heaviest and then use a balance scale to		Count on and back beyond 10 using representations as a guide Count on or back from different starting points	Subitise (recognise	numbers/quantities/pictures
the school	Give up to 3	Find mistakes in patterns	check		Say what comes before and after a given number	quantities without	Say and order ordinal number to 5
	objects when Use the words heavy, heavier than, heaviest, light, lighter, light		heaviest, light, lighter, lighter than	Place sequences of numbers in order	counting) up to 5	,	
Each phase	asked and stop	Phase 2 – It's Me 123!	and lightest to compare items		Find larger numbers on number tracks and 100 squares		Addition and subtraction:
contains the	when you have	Count up to 3 objects using 1-1 correspondence	Know that bigger items are not always the heaviest e.g. inflatable		Select and rotate shapes to fill a given space	Automatically recall	Linking addition and subtracting to
teaching of	enough	Recognise numerals 1, 2 and 3	beach ball and a rock Identify a container that is full, empty, half full, nearly full and nearly		Explain why a shape wouldn't fit a space Make arrangements with shapes and describe the position of the shapes using positional	(without reference to	the part-part-whole model and to be
Number and	Recognise some	Make representations of 1, 2 and 3 using a variety of objects and some mathematical equipment	empty		language	rhymes, counting or	able to understand that addition is
Measure,	numbers of	Make comparisons of numbers 1, 2 and 3 using mathematical	Make comparisons of containers using the words 'tall', 'thin', 'narrow',		Select shapes to complete tangram outlines	other aids) number	getting bigger and subtracting is
Shape and	significance e.g. 3,	language	'wide' and 'shallow'			bonds up to 5 (including	getting smaller
Spatial	4 and 5	Begin to understand that numbers are made up of smaller			Phase 8 – First Then Now	subtraction facts) and	5 5
Thinking	I de actifica de la la	numbers e.g. 3 can also be made using 2 and 1			Consolidate key skills - Subitising, counting, composition, sorting and matching, comparing	some number bonds to	Multiplication and Division:
	Identify which group has more	Count and subitise sets of objects/pictures Identify a circle and a triangle	Count 6, 7 and 8 objects using 1-1 correspondence Represent 6, 7 and 8 in different ways		and ordering	10, including double	Know that multiplication is repeated
Children will	and which group	Know that a circle has 1 curved side and a triangle has 3	Count out the require number of objects from a larger group		Know that the quantity of a group is changed when adding more Count on when adding more	facts	addition and that division is sharing
be assessed as	has fewer	straight sides	Make arrangements of 6, 7 and 8 in small groups to support Subitising		Create mathematical stories using 'first', 'then', 'now'		-
to whether		Find circles and triangles in the environment	e.g. I can see a 4 and a 4 in that representation of 8		Represent number stories using 10 frames, number tracks and fingers	Numerical Patterns	Fractions:
they are on	Know that the last number reached	Know that triangles of different sizes and orientations are still triangles	Know 1 more and 1 less than a number to 8 Know that 'a pair' means 2		Know that the quantity of a group is changed when taking away	ELG	Understanding the concept of whole
track with	when counting	Understand and use positional language to describe position	Arrange quantities into pairs and notice some quantities will have an		Take away by counting out all the items at the start, take away the required amount practically, and then subitise or recount to see how any there are left	Verbally count beyond	and half
WRM scheme	tells us how many		odd one left over with no partner		Know that shapes can be combined and separated to make new shapes	20, recognising the	
throughout	there are	Phase 3 – Light and Dark	Combine 2 groups to find how many there are altogether		Explore the different ways a given shape can be built using smaller shapes	pattern of the counting	Shape, Space and Measure
the year		Count on and back to 4/5	Subitise when combining 2 groups to find how many there are		Explore the different shape they can make by combining a set of given shapes in different	system	
	Solve some mathematical	Count and subitise sets of 4/5 objects/pictures	altogether Use specific mathematical vocabulary related to length (longer and		ways		Measurement:
At the end of	problems up to 5	Make a collection of 4/5 objects and know when to stop when they have enough	shorter), height (taller and shorter) and breadth (wider and narrower)		Disease Find an anthrony	Compare quantities up	Use appropriate language to
EYFS, Children	P	Match numbers names to numerals and quantities	Make comparisons using objects e.g. The sand tray in 4 blocks long.		Phase 9 – Find my pattern Consolidate key skills – Subitising, counting, composition, sorting and matching, comparing	to 10 in different	compare length, weight, capacity
will be		Use mark making to represent numbers to 5	The table is 5 blocks long.		and ordering	contexts, recognising	and time
assessed	Measure,	Represent numbers to 5 on a 5 frame	Order and sequence important times in the day using language such		Know that doubling means 'twice as many'	when one quantity is	and time
against the	Shape and	Know that if a 5 frame is full then there are 5	as 'now', 'before', 'later', 'soon', 'after', 'then' and 'next' Use the words 'yesterday', 'today' and 'tomorrow' when talking about		Build doubles using real objects and mathematical equipment and say the doubles as they see	greater than, less than	Geometry - Properties of shapes:
two	Spatial	Join in with number songs with a focus of 5 Predict how many there will be when one more is added or	regular events that happen e.g. PE sessions		them e.g. Double 2 is 4 Say when items are not shared equally	or the same as the other	Name circle, triangle, square and
Mathematics ELGs which	Thinking:	taken away	Know that some processes such as growing vegetables take a longer		Recognise and make equal groups e.g. 3 crackers on each plate	quantity	rectangle and describe their
are 'Number'	Identify most/all	Understand the link between counting forwards and the 1	time		Notice that sometimes there are items left over and come up with their own suggestions for		properties to help group shapes. To
and	colours	more pattern	Dhase C. Duilding a god as		how to resolve this	Explore and represent	begin to know what 3D shapes look
'Numerical		Understand the link between counting backwards and the 1 less rule	Phase 6 – Building 9 and 10 Count forwards and backwards to 9 and 10		Notice that some quantities will share equally into 2 groups and some won't	patterns within	like and that they are different to 2D
Patterns'.	Use words such as	Identify a square and a rectangle	Represent 9 and 10 in different ways		Notice that some quantities can be groups into pairs and some will have 1 left over Notice odd and even structures on numicon shapes and pair-wise 10 frames	numbers up to 10,	shapes
There is no	'big', 'small' and	Know that squares and rectangles have 4 straight sides and 4	Make arrangements of 9 and 10 in small groups to support Subitising		Replicate simple constructions, models, real places and places in stories	including evens and	
ELG for	'heavy' in play	corners	e.g. I can see a 5 and a 5 in that rep	resentation of 10	Use positional language to describe where objects are in relation to other items e.g. The	odds, double facts and	Geometry - Position and direction:
Measure,	Make	Recognise these shapes in the environment Build own squares and rectangles	Know that a 10 frame is full when there are 10		yellow cube in next to the pink cube	how quantities can be	Understand and use positional
Shape and	comparisons	Know that rectangles of different sizes/orientations are still	Use 10 frames, fingers and bead strings to subitise groups of 9 and 10 Line items up to make direct comparisons			distributed equally	language (prepositions) beginning to
Spatial	between objects	rectangles and square of different sizes/orientations are still	Explore number bonds to 10 using objects		Phase 10 – On the move		use the words 'left and 'right'
Thinking	e.g. size, length,	size, length, squares Identify shapes that stack and shapes than roll			Consolidate key skills – Subitising, counting, composition, sorting and matching, comparing and ordering	There is no ELG for	-
	weight and capacity	Know and explain the difference between a square and	Explain why some shapes stack and		Engage in extended problem solving and develop critical thinking skills	Measure, Shape and	
	D D D		Build using 3-D shapes		Investigate relationships between numbers and shapes e.g. numicon shapes and Cuisenaire	Spatial Thinking	
	Identify some 2D	Use language such as 'day', 'night', 'morning', 'before',	Begin to name 3-D shapes Explore similarities and differences between 3-D shapes		rods		
	shapes	'tomorrow' etc.	Identify and complete patterns wh	ich use items more than once e.g.	Copy, continue and create a widening range of repeated patterns and symmetrical		
		Understand the passing of time using calendars e.g. advent	ABB, AAB, AABB, AABBB etc.	<b>.</b>	constructions Use maps to see where things are in relation to other things		
1	1	1	1		Create own maps to represent the models they build, familiar places and place sin stories	1	

