St Edmund's and St Thomas' Primary School EYFS Maths Knowledge and Skills Progression Map.

We realise that talk is at the heart of maths learning and that most of children's understanding comes from talking about number, shapes and measures, and exploring them through everyday play indoors and outdoors. When we are supporting the children's developing knowledge and understanding of number, shape, space and measures we introduce specific vocabulary and use questions which extend learning and enabling statements which will support children's thinking: e.g. "I wonder how many apples we will need for snack today?" When playing and engaging in focused activities with the children, staff will use planned mathematical vocabulary to develop and deepen the children's knowledge and understanding.

Mathematics		Nursery	Reception use NCTEM and White Rose Maths scheme	KS1 Links
Number	Knowledge	Develop fast recognition of up to 3 objects, without having to count them individually ('subitising').	Count objects, actions and sounds	
	and Skills	Recite numbers past 5.	Subitise to 5 and extend to 10	Lount to and across
		Say one number for each item in order: 1,2,3,4,5.	Link numerals to their cardinal value	backwards, beginning
		Know that the last number reached when counting a small set of objects tells you how many there	Accurately count beyond 10	with 0 or 1 or from any given number.
		are in total ('cardinal principle').	 Compare numbers within 10 using the language of 'more than', (less than', 'fewer', 'the same as', 'equal to' 	
		Show linger humbers up to 5.	 Find one more and one less than a given number within 10 	
		Link numerals and amounts: for example, showing the right number of objects to match the	Evaluate the composition of numbers to 10	
		numeral, up to 5.	Explore the composition of numbers to 10	Begin to recognise
		Experiment with their own symbols and marks as well as numerals.	 Recall number bonds to 5 (including subtractions facts) 	place value in
		Solve real world mathematical problems with numbers up to 5.	Recall most number Bonds to 10 Recall doubles to double 5	numbers beyond 20
	Vocabulary	count, number, numeral, more than, less than, total, altogether	Number, numeral, number sentence, more, less, same, equal, add, plus, total, altogether, take away, subtract, fewer, double, number	
	How it is	Counting on fingers	See NCTEM and White Rose Maths planning.	Represent numbers
	covered	Mark making in play and role play, staff use daily routines to emphasise counting.		using objects and
		Games to develop fast recognition of up to 3 objects, Recognise numbers to 3 in different pictorial	Autumn: recognise the pattern of the counting system within 10 Begin to compare	pictorial
		representations, Count accurately to 5 then 10 and touch count objects to 5 then 10 accurately	quantities using greater than, less than, same with groups	representations
		including counting out from a larger group, link numerals to amounts to 5	Creirs compare quantities using greater than loss than some and equal to using	
		Recognise other numbers of significance.	spring: compare quantities using greater than, less than, same and equal to using	
		Singing number rnymes and asking questions such as 'now many now?	Recognize the pattern of the counting system beyond 10	
		Numerals matched to quantities in CP (to 5)	Recognise the pattern of the counting system beyond 10	Represent and use
		Use positional language in routines	Summer: Odd and Even numbers	number bonds
		Make and use obstacle courses	Doubles	
		Outdoor balances to explore weight	Sharing between two and three equal groups. Recognising groups that are not	
		Model writing numerals and drawing quantities in play	equal	
		Book talk (maths stories and books)		Read and write
		Stories, songs, action rhymes, poems, CP enhancements.		numbers from 1
		Autumn: the numbers 1 and 2 in depth.		to 20 in numerals (and words)
		Spring: the numbers 3,4 in depth.		(and words)
		Summer: the number 0 & 5 in depth.		
Numerical	Knowledge	Practitioners encourage the children to explore the collections they make (subitise)	Verbally count beyond 20, recognising the pattern of the counting system;	
Patterns	and skills	Count accurately beyond 5	greater than less than or the same as the other quantity.	
		Count back from 3	Explore and represent patterns within numbers up to 10, including evens and odds.	
		Compare quantities using language: 'more than', 'fewer than'. •	double facts and how quantities can be distributed equally	Use the language of: equal to, more
	Vocabulary	more than, less than	pattern, even, odd, less, more, same, equal	than, less than
	How it is covered	Daily, say the counting sequence, in a variety of playful contexts, inside and outdoors, forwards	Autumn: recognise the pattern of the counting system within 10 Begin to compare quantities using greater than, less than, same with groups	(tewer), most, least
		and backwards, sometimes going to high numbers. E.g. hide and seek, rocket-launch countdowns.		
		Count things and then repeat the last number. For example: "1, 2, 3 – 3 cars". Point out the	Coving: compare quantities using greater than loss than some and equal to using	
		number of things whenever possible;	number balances and addition	
		Play the 'how many in my bucket? Game i.e., give the children the bucket with for example the	Recognise the pattern of the counting system beyond 10	
		number 4 on and ask children to get 4 things that will fit inside the bucket.		

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Shano	Knowledge	Encourage children in their own ways of recording e.g. how many balls they managed to throw through the hoop. Provide a number track on the fence for reference. Discuss mathematical ideas throughout the day, inside and outdoors e.g. How many plates will we need for the toy's picnic?" Play games that involve 2,3,4,5 frames to begin to understand full and not full.	Summer: Odd and Even numbers Doubles Sharing between two and three equal groups. Recognising groups that are not equal	
Snape, Space, Measure	and Skills	Talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematical language: 'sides', 'corners'; 'straight', 'flat', 'round'. Understand position through words alone – for example, "The bag is under the table," – with no pointing. Describe a familiar route. Discuss routes and locations, using words like 'in front of' and 'behind'. Make comparisons between objects relating to size, length, weight and capacity. Select shapes appropriately: flat surfaces for building, a triangular prism for a roof, etc. Combine shapes to make new ones – an arch, a bigger triangle, etc. Talk about and identify the patterns around them. For example: stripes on clothes, designs on rugs and wallpaper. Use informal language like 'pointy', 'spotty', 'blobs', etc. Extend and create ABAB patterns – stick, leaf, stick, leaf. Notice and correct an error in a repeating pattern. Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then'	 Select, rotate and manipulate shapes in order to develop spatial reasoning skills recognising how several shapes can be combined. Compose and decompose shapes Discuss the properties of common 2D shapes – circle, triangle, square, rectangle, pentagon, semi circle Recognise and name common 3D shapes and begin to discuss their properties – pyramid, sphere, cube, cuboid, cylinder Continue, copy and recreate patterns with different rules (ABAB,ABBA, AABB, ABBC) Compare length, weight and capacity using ley language. Order 4 or more objects by length, weight or capacity 	Recognise, find and same a half as one of two equal parts of an object, shape or quantity compare, describe and solve practical problems for double/half Describe position, direction and movement, including whole, half, quarter and three-quarter turns.
	Vocabulary	off, up, next to, in-between , through, behind, around, over, down, under, above, besides, direction, pattern, first, next, last, 2D shapes, circle, triangle, rectangle, square, corners, 3D, longest, shortest, heaviest, lightest, empty, full	Length, long(er/est), short(er/est, weight, heavy(er/est), light(er/est), capacity, full, empty, half full, nearly empty, nearly full pattern, narrow(er/est), wide(er/est), repeating, 2D, flat, corners, sides, straight, curved, 3D, solid, face, edges, Vertices, vertex	
	How it's covered	Encourage children to play freely with blocks, shapes, shape puzzles and shape-sorters. Sensitively support and discuss questions like: "What is the same and what is different?" Encourage, during play, and use the language associated with shape and position e.g. using words like 'sharp corner', 'pointy' or 'curvy'. Talk about shapes as you play with them: Sustained shared thinking, "We need a piece with a straight edge." Explore shapes through play and combine shapes to make new shapes Explore length and compare two objects using key language Starting to use language of shape in play. 2D shapes and their properties. Explore combining shapes to make new shapes and describe Explore repeating patterns capacity – empty and full Weight – heaviest and lightest Using prepositional language and describing a familiar route	Autumn: continue and complete repeating patterns Spring: capacity, weight, 2D shapes and their properties, Summer: doubles facts, subtraction within 10,	