Somerville Federation

Maths progress model for knowledge and skills

		Expectations	s for Nursery	/	Expecta	tions for Re	ception	ELG	Links to KS1
	Awareness of number through songs.	Recite numbers to 3	Recite numbers beyond 3	Recite numbers beyond 5	Recite numbers forwards beyond 10	Recite numbers forwards and backwards beyond 10	Count on from any number	Verbally count beyond 20, recognising the pattern of the	See NC Yr 1 Programme of study:
	Says some numbers randomly					Can count in the pattern of 2's	Can count in the pattern of 2's, 5's and 10's.	counting system	Number – Number and Place Value
Numerical Patterns Counting		Children join in with simple number rhymes linked to 1 more / 1 less e.g. 5 speckled frogs	Use nonverbal adding and subtracting with very small numbers of objects. E.g. 1 teddy – 1 more – how many?	Can give you 1 more or take one away than a group of objects up to 3	Can give you 1 more and take 1 away than a group of objects up to 5	Using a numberline can find 1 more or one less to numbers beyond 10.	can recall one more or one less than numbers up to 10		Number addition and subtraction Number Multiplication and Division
	Children say number names randomly during play. Uses words such as 'a lot'	Says some number names but not for each object	Counts objects and actions to 3 saying a name for each one.	Count objects are (understanding the you how man	e last number tells	Counts objects and actions to 10+	Counts objects and actions beyond 20		Number - Fractions
Counting / Reciting vocab				Recite Number Count More Less Same/equal					
Nume rical Patte	Recognise some n	•	Recognise numbers to 3	Recognise numbers to 5	Recognise and write numbers to 5	Recognise and wr	ite numbers to 10		

represent number through actions or objects e.g. claps, fingers The properties of					Can orde	er up to 5	Can orde	r up to 10	
Children join and copy as adults represent number through actions or objects e.g. claps, fingers Objects for numbers up to 3/5 Able to recall the number bonds to make 3 and 4 Begin to subitise (to 2) Children join in with simple number ryymes linked to 1 more / 1 less e.g. 5 Children join and copy as adults represent through actions or objects for numbers up to 5 and a poblects for numbers up to 5 Able to recall the number bonds to make using different objects Able to recall the number bonds to make 3 and 4 Can subitise (to 5) Can subitise (to 5) Can subitise (to 5) Can subitise (up to 10) Can combine groups of objects up to 3 to see how many altogether. Children join in with simple number ryymes linked to 1 more / 1 less e.g. 5	Number recognition vocab				Number name				
Able to recall the number bonds to make 3 and 4 bonds to 7 (including subtraction facts) Begin to subitise (to 2) Children join in with simple number rhymes linked to 1 more / 1 less e.g. 5 Children join in with simple number rhymes linked to 1 more / 1 less e.g. 5 Able to recall the number bonds to recall number bonds to 7 (including subtraction facts) Can subitise (to 5) Can subitise (to 5) Can subitise (to 5) Can subitise (to 5) Can subitise (up to 10) Can combine groups of objects up to 5 and say how many they have altogether. Can combine groups of objects up to 7 representing through Automatically recall number bonds to 7 (including subtraction facts) Can add 2 single digit numbers to 10 by counting on.		represent numbe	r through actions	objects for numbers up to	objects for	objects for	what numbers 5-10 look like and are able to make using different	represent the composition of number through	understanding of numbers to 10 including the composition of
linked to 1 more representing counting on. / 1 less e.g. 5	ition					number bonds to make 3 and 4	recall number bonds to 7 (including subtraction	recall number bonds to 10 (including subtraction	recall number
linked to 1 more representing counting on. / 1 less e.g. 5	lumber r Compos	Begin to sul	bitise (to 2)		Can subi	tise (to 5)	Can subitis	e (up to 10)	(including subtraction facts)
speckied trogs drawings	Numbe	with simple number rhymes linked to 1 more / 1 less e.g. 5 speckled frogs In practical con away and know			5 and say how	many they have	digit numbers up to 7 representing	digit numbers to 10 by	
In practical contexts takes some away and knows that they have 'less' Can solve simple subtraction problems up to 5 using objects 'less' Can solve simple subtraction problems up to 5 using objects single digit number from a number up to 7 using drawings using drawings 10 by counting backwards				s that they have	•		single digit number from a number up to 7	single digit number from a number up to 10 by counting	

Number composition vocab			Subitise Combine More Altogether Add Less Subtract Minus					
<u>Numerical Patterns</u> Fractions / Comparison	Children begin to use mathematical language such as 'more'	Identify whether collections are the "same" number or which is "more" visually	Can recognise which group has more, less or the same and use the correct language up to 5. Can halve/share objects out equally in practical situations Recognise when they have the same as their friend and can count to see how many altogether	Can recognise which group has more, less or the same by counting and use the correct language up to 7 Can halve and share objects out using the part part whole model up to 7	Can compare groups of objects up to 10 + understanding the difference between size and quantity Can halve and share objects out using the part part whole model up to 10 Knows that even numbers can be shared and that odd numbers can't Can double numbers up to 10 using objects and begin to recall double	Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity. Explore and represent patterns within numbers to 10, including odd and evens, double facts and how quantities can be distributed equally.		
Fractions/ comparison vocab		More Less Same Double compare						

Shape	Children use shapes of different sizes and types within their play Children complete simple inset jigsaws and shape sorters.	Has an interest in shapes in the environment Uses shapes to make pictures		Talks about and explores 2D many corners shapes using some and sides basic 2d shapes have mathematical language e.g. corners, sides		hexagon W Explores how many corners and sides other 2d shapes have sic ve			Recognise and name common 2-D shapes, including rectangles (including squares), circles and triangles Recognise and name common 3-D shapes,
			' '	ntify their names / cures	Is beginning to ex	explore other shapes such as pyramids and triangular prisms			including cuboids (including cubes), pyramids and spheres
Shape Vocab				2D shape 3Dshapes Shape names Side Corner Vertices Face Edge					
Space	Children start to notice similarities and repeated shapes	patterns, such as wi	le repeating s a wall of blocks ith g, short, long	Continue and copy simple AB repeating patterns	Continues, copies and recreates repeated	Continues, copies and recreates repeated	Continues, copies and recreates repeated		Describe position, direction and movement,

	in the environment.	Talks about pattern in the environment (spotty, stripy)	Can sort items by their colour or pattern	Creates repeated patterns with 2 shapes	patterns AB and extend this and spot errors	patterns ABB and extend this and spot errors	patterns ABBC and AABB and extend this and spot errors	including whole, half, quarter and three-quarter turns.
	Children take part in action rhymes and copying games Children develop spatial awareness through movement.	Understand and u in, over, under next to, behir Can understand p words a	r, above, on , nd, between position through	Begins to describe locations using words such as 'in front of' and 'behind'	Can follow instructions using positional language		l y such as 'over', eath', 'beside'	
Space vocab			ı	Patterns Repeating patterns Shapes Colours Positional vocabulary Prepositions	,			
	Children show an awareness of size through stories and activities such as playing with	Uses 'big' and 'sm 'tall to com		Uses 'big' and 'small', 'short' and 'tall to compare size		e items by length/he standard measures . 'smallest', 'shortes		Compare, describe and solve practical problems for lengths and heights
Measurement	construction materials and showing an awareness of size e.g. big /	Uses 'heavy'	-	Make simple comparisons using 'heavier' and 'lighter'	Can order three	Compare, describe and solve practical problems for mass/weight		
	small	Small Uses 'full' and 'empty' to compare capacity Make simple comparisons using 'more' and 'less' Uses 'full' and 'empty' to compare comparisons using 'more' and 'less' Can order three items by capacity using non-standard measures Uses 'full', 'empty', 'half empty'					Compare, describe and solve practical problems for capacity and volume	

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		Knows day and	Knows and talks about the events in	Can sequence	Knows days of	Begins to use		Recognise and
		night	a day through routines / visual	events in the	the week	language		use language
			timetables	day		before, after,		relating to
						yesterday,		dates,
						today,		including days
						tomorrow		of the week,
								weeks,
								months and
								years
	Devel	ops an awareness o	f money through role play	Understands tha	t we need to pay fo	r items in a shop		Recognise and
					bout what they wou			know the
				Talks about the	different ways we c	an pay for things		value of
				Recognises	that there are diffe	erent coins		different
				Can pa	y for items using 1p	coins		denomination
								s of coins and
								notes
			Sequence					
			Tallest					
			Shortest					
Measurement vocab			Big					
Ŏ			Small					
Ħ			Weight					
μe			Heaviest					
j ē			Lightest					
ns			Longest					
<u> ea</u>			Length					
≥			Days of the week					
			Money					
			Coins					