

## Childer Thornton Primary School



## Maths progress model for knowledge and

## skills

	Expect	tations for N	lursery	Expecta	itions for Re	ception	ELG	Links to KS1
	Says number names in an random order	Count beyond 3	Count beyond 5	Counts forwards beyond 10	Counts forwards and backwards beyond 10	Count on from any number up to 20	Verbally count beyond 20, recognising the pattern of the counting system	Given a number, identify 1 more and 1 less. Identify and
<u>Numerical Patterns</u> Counting		Can give you 1 more or take one away than a group of objects up to 3	Can give you 1 more or take one away than a group of objects up to 5	Can give you 1 more and take 1 away than a group of objects up to 10	Using a numberline can find 1 more or one less to numbers beyond 10.	Recite numbers to 20 and back from20. Count on from a given number to 20 and back from a given number 0-10.		represent numbers using objects and pictorial representations including the number line, and use the language
	Says some number names but not for each object	Counts objects and actions to 3 saying a name for each one.	Count objects an (understanding the you how man	e last number tells	Counts objects a	nd actions to 10+		of: equal to, more than, less than (fewer), most, least
Counting vocab			Num Cou Mo Le: Same/	int re ss				Read and write numbers from 1 to 20 in numerals and words
<u>Numeric</u> <u>al</u> Patterns	Recognise some numbers special to them	Recognise numbers to 3	Recognise numbers to 5 Can orde	Recognise and write numbers to 5	Recognise and write numbers to 10 Can order up to 10			

		Can order up to 3					
Number recognition vocab							
<u>r</u> Dosition	Know what 1 or 2 objects are and can give you 1 or 2	e what 3 is and and can make view can make with different objects Able to recall the make 3 and 4 (in	Understands what 4 and 5 looks like and can make with different objects	Understands what numbers 5-10 look like and are able to make using different objects	Able to represent the composition of number through drawings.	Have a deep understanding of numbers to 10 including the composition of number	represent and use number bonds and related subtraction facts within 20 add and subtract one-digit and two- digit numbers to 20, including 0 solve one-step problems that
			Able to recall the number bonds to make 3 and 4 (including subtractions facts)	Knows and can recall number bonds to 5 (including subtraction facts)	Knows and can recall number bonds to 6, 7, 8 (including subtraction facts)	Subitise (recognise quantities without counting) up to 5. Automatically recall number bonds up to 5	
<u>Number</u> Number Composition	Can subitise (to 1)	Can subitise (to 2)	e (to Can subitise (to 3) Can subitise (up to 4) (including subtraction facts) and som			(including subtraction facts) and some number facts to 10	involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = ? – 9
Nu	Can combine groups of objects up to 3 to see how many altogether. Takes some away and knows that they have 'less'		Can combine groups of objects up to 5 and then 10 and say how many they have altogether.	Can add 2 single digit numbers up to 10 representing through drawings Subtracts a single digit number from a number up to 10 using drawings		including doubles.	
			Can solve simple subtraction problems up to 5 then 10 using objects				

			Subi	tise				
Number composition vocab								
Number mpositic vocab								
ö								
	Can say which	Can identify	Can recognise which group has more,		Can recognise	Can compare	Compare quantities up	
	group has more	when they have	less or the same a		which group has	groups of	to 10 in different	
	or less up to 3	the same	language	up to 5.	more, less or	objects up to 10	contexts, recognising	
					the same by counting and	+ understanding	when one quantity is	
						the difference	greater than, less than	
					use the correct	between size	or the same as the	
2					language up to	and quantity	other quantity.	
iso					10			
Numerical Patterns Fractions / Comparison		Can share out objects sometimes		Can halve/share objects out equally		Can halve and share objects out		
	equ	ially	in practical situations		using the part part whole model up		Explore and represent	
cal / C					to 10		patterns within	
ons							numbers to 10, including odd and	
							evens, double facts	
zi s						Knows that even numbers can be		
-					shared and that odd numbers can't		and how quantities can be distributed	
	Recognise when they have the		Recognise when	Can double	Can double	Can recall	equally.	
	same as th	same as their friend		numbers up to 5	numbers up to	double facts up	equality.	
			same as their	using objects	10 using objects	to 10		
			friend and can					
			count to see how					
			many altogether					
			Mo					recognise, find
_			Le: San					and name a half
son					as 1 of 2 equal			
ari				parts of an object,				
d o				shape or quantity				
s/ com vocab				recognise,				
Fractions/ comparison vocab				find and name				
tio				find and name a				
rac								quarter as 1 of 4
ш								equal parts of an
								object, shape or
								quantity

	Has an interest in shapes in the environment	Begins to recognise and name basic 2d shapes with support	Can name basic 2d shapes – circle, square, rectangle, triangle		Can name oval, pentagon, octagon, hexagon		Recognise and name common 2- D shapes, including rectangles
Shape	Uses shapes to make pictures Selects shapes e.g. triangle for a roof Some Ianguage e.g. corners, sides			(including squares), circles and triangles Recognise and name common 3- D shapes, including cuboids			
	Has an interest in shapes in the environment	Can correctly match some 3d shapes	Can correctly reco some 3d shapes sphe	e.g. cones and	Can correctly recognise and name sphere, cone, cylinder, cuboid and cube	Is beginning to explore other shapes such as pyramids and triangular prisms	(including cubes), pyramids and spheres
Shape Vocab							
Space	Copies and cont patterns with Talks about pattern in the environment (spotty, stripy)		eda Creates repeated patterns with 2 colours Notices and corrects errors Creates repeated patterns with 2 shapes Notices and corrects errors	Continues, copies and recreates repeated patterns ABB, AAB	Continues, copies and recreates repeated patterns AABB, ABBC	Continues, copies and recreates repeated patterns AABBB, ABBCA	Describe position, direction and movement, including whole, half, quarter and three-quarter turns.

	Copies and con patterns wit		Creates repeated patterns with 2 numbers					
	Uses gestures to understand positional language	Can understand position through words alone	Begins to describe locations using words such as 'in front of' and 'behind'	Can follow instructions using positional language		y such as 'over', eath', 'beside'		
Space vocab			Patte Repeating Shaj colo	patterns Des				
	-	Uses 'big' and 'small', 'short' and 'tall to compare size		Can order three items by length/height using non-standard measures Uses 'biggest', 'smallest', 'shortest' and 'tallest'		Uses standard measures whilst measuring size		Compare, describe and solve practical problems for lengths and heights
	Uses 'heavy' and 'light'		Make simple comparisons using 'heavier' and 'lighter'	Can order three items by weight using non-standard measures Uses 'heaviest', 'lightest'		Uses standard measures whilst measuring weight		Compare, describe and solve practical problems for mass/weight
Measurement	Uses 'full' and 'empty' to compare capacity		Make simple comparisons using 'more' and 'less'		items by capacity dard measures oty', 'half empty'	Uses standard measures whilst measuring capacity		Compare, describe and solve practical problems for capacity and volume
_	Knows day and night			Can sequence events in the day	Knows days of the week	Begins to use language before, after, yesterday, today, tomorrow		Recognise and use language relating to dates, including days of the week, weeks, months and years
	Understands that we need to pay for items in a shop and can talk about what they would like to buy		Talks about the different ways	Recognises that there are different coins	Can pay for items using 1p coins	Recognise know the val differen		

		we can pay for		denominations of
		things		coins and notes
	Seque	nce		
	Talle			
	Short			
vocab	Bi			
100	Sma			
	Wei			
Measurement	Heav			
ren	Light			
Ins	Long			
lea	Leng			
Σ	Days of th			
	Mor			
	Соі			