

Mathematics Curriculum Progression Map

Number: Number and Place Value

EYFS							
<u>3-4 Year</u> olds	<u>Reception</u>	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>
			<u>C</u>	ounting			
Recite numbers past 5	Count objects, actions and sounds	Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number			Count backwards through zero to include negative numbers	Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero	Use negative numbers in context, and calculate intervals across zero

Say one	Count	Count, read and	Count in steps of	Count from 0 in	Count in multiples	Count forwards			
number for	beyond 10	write numbers to	2,3, and 5 from 0,	multiples of 4, 8,	of 6, 7, 9, 25 and	or backwards in			
each item in	(count	100 in numerals;	and in tens from	50 and 100	1000	steps of powers			
order: 1, 2, 3,	verbally	count in multiples	any number,			of 10 for any			
4, 5	beyond 20)	of twos, fives and	forward or			given number up			
	-	tens	backward			to 1000 000			
	Understand	Given a number		Find 10 or 100	Find 1000 more				
	the "one	identify one more		more or less than	or less than a				
	more/one	and one less		a given number	given number				
	loss than"	and one less		a given number	given number				
	relationshin								
	hetween								
	consecutive								
	numbers								
Commente	Commente		<u>Compare and</u>	Commons and	Orden and	Deed write	Deed write		
Compare	Compare	Ose the language	compare and	Compare and		Read, write,	Read, write,		
quantities	numbers	of: equal to, more	from 0 up to 100	order numbers up	compare numbers	order and	order and		
using	(more than,	than, less than	from 0 up to 100;	to 1000	beyond 1000	compare	compare		
language:	less than,	(fewer), most,	use and = signs			numbers to at	numbers up to		
more than,	fewer, the	least			Compare numbers	least 1 000 000	10 000 000 and		
fewer than	same as,				with the same	and determine	determine the		
	equal to)				number of	the value of each	value of each		
					decimal places -	digit <i>(cross</i>	digit <i>(cross</i>		
					up to two decimal	reference -	reference -		
					places (cross	Reading and	Reading and		
					reference -	Writing	Writing Numbers)		
					Fractions:	Numbers)			
					Decimals)				
		<u>Ide</u>	ntifying, Represent	ting and Estimating	<u>Numbers</u>				
Develop fast	Subitise	Identify and	Identify,	Identify,	Identify,				
recognition	(show	represent	represent and	represent and	represent and				
of up to 3	quantities of	numbers using	estimate numbers	estimate numbers	estimate numbers				

items	familiar	objects and	using different	using different	using different	
without	patterns,	pictorial	representations,	representations	representations	
having to	random	representations	including the			
count them	arrangement,	including the	number line			
(subitising)	objects,	number line				
	fingers		(Use materials			
Know that	Link the		and a range of			
the last	number		representations to			
number	symbol		practise counting,			
reached,	(numeral)		reading, writing			
when	with its		and comparing			
counting a	cardinal		numbers to at			
small set of	number		least 100			
objects, tells	value					
you how			Children begin to			
many there			recognise zero as			
are in total			a place holder)			
(cardinal						
principle)						
Show "finger						
numbers" up						
to 5						
Link						
numerals and						
amounts: e.g.						
showing the						
right number						
of objects to						
match the						
numeral; up						
to 5						

Reading and Writing Numbers (including Roman Numerals)							
Experiment		Read and write	Read and write	Read and write		Read, write,	Read, write,
with their		numbers from 1	numbers to at	numbers up to		order and	order and
own symbols		to 20 in numerals	least 100 in	1000 in numerals		compare	compare
and marks as		and words.	numerals and in	and in words		numbers to at	numbers up to
well as			words			least 1 000 000	10 000 000 and
numerals						and determine	determine the
						the value of each	value of each
						digit (cross	digit <i>(cross</i>
						reference -	reference -
						Comparing	Understanding
						Numbers)	Place Value)
				Children tell and	Read Roman	Read Roman	
				write the time	numerals to 100	numerals to	
				from an analogue	(I to C) and know	1000 (M) and	
				clock, including	that over time,	recognise years	
				using Roman	the numeral	written in	
				numerals from I	system changed	Roman	
				to XII, and 12-	to include the	numerals.	
				hour and 24- hour	concept of zero		
				clocks (cross	and place value.		
				reference -			
				Measurement:			
				Time)			
			<u>Understar</u>	nding Place Value			
		Children begin to	Recognise the	Recognise the	Recognise the	Read, write,	Read, write,
		recognise place	place value of	place value of	place value of	order and	order and
		value in numbers	each digit in a	each digit in a	each digit in a	compare	compare
		beyond 20 by	two-digit number	three-digit	four-digit number	numbers to at	numbers up to
		reading, writing,	(tens, ones)	number	(thousands,	least 1 000 000	10 000 000 and
		counting and		(hundreds, tens,	hundreds, tens,	and determine	determine the
		comparing		ones)	and ones)	the value of each	value of each

numbers support objects pictor represent	to 100 ted by s and rial tations	Children use larger numbers to at least 1000, applying partitioning	Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the	digit (cross reference - Reading and Writing Numbers) Recognise and use thousandths and relate them to tenths, hundredths and	digit (cross reference - Reading and Writing Numbers) Identify the value of each digit to three decimal places and multiply and
		related to place value using varied and increasingly complex problems, building on work in year 2.	value of the digits in the answer as units, tenths and hundredths (cross reference- Fractions)	decimal equivalents (cross reference- Fractions)	divide numbers by 10, 100 and 1000 where the answers are up to three decimal places (cross reference - Fractions)
		Rounding			
			Round any number to the nearest 10, 100 or 1 000	Round any number up to 1 000 000 to the nearest 10, 100, 1 000, 10 000 and 100 000	Round any whole number to a required degree of accuracy
			Round decimals with one decimal place to the nearest whole number (cross reference	Round decimals with two decimal places to the nearest whole number and to one	Solve problems which require answers to be rounded to specified degrees of accuracy (cross

					Fractions:	decimal place	reference -
					Decimals)	(cross reference -	Fractions)
						Fractions:	
						Decimals)	
			Prob	lem Solving			
Solve real	Use place	Children practise	Use place value	Solve number	Solve number and	Solve number	Solve number
world	value and	counting, ordering	and number facts	problems and	practical	problems and	and practical
mathematical	number facts	and indicate a	to solve problems	practical	problems that	practical	problems that
problems	to solve real	quantity,		problems	involve all of the	problems that	involve all of the
with	word	including solving		involving all the	above and with	involve all of the	above objectives
numbers up	mathematical	simple concrete		above objectives	increasingly large	above	
to 5	problems	problems, until			positive numbers		
		they are fluent					