## Number and Place Value

	Counting							
Pre-School	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
Recite numbers past	Count objects, actions	count to and across			count backwards	interpret negative	use negative numbers	
5	& sounds.	100, forwards and			through zero to	numbers in context,	in context, and	
	Develop 1:1	backwards,			include negative	count forwards &	calculate intervals	
	correspondence	beginning with 0 or			numbers	backwards with +tive	across zero	
		1, or from any given				& -tive whole		
		number				numbers, including		
						through 0		
Say one number name	Verbally count	count, read and write	count in steps of 2, 3,	count from 0 in	count in multiples of	count forwards or		
for each item in order:	beyond 20,	numbers to 100 in	and 5 from 0, and in	multiples of 4, 8, 50	6, 7, 9, 25 and 1000	backwards in steps of		
1, 2, 3, 4, 5	recognising the	numerals; count in	tens from any	and 100;		powers of 10 for any		
	pattern of the	multiples of twos,	number, forward or			given number up to		
	counting system	fives and tens	backward			1000 000		
Know that the last	Relate the counting	given a number,		find 10 or 100 more	find 1000 more or			
number reached	sequence to	identify one more		or less than a given	less than a given			
when counting a	cardinality, seeing	and one less		number	number			
small set of objects	that the last number							
tells you how many	spoken gives the							
there are in total	number in the entire							
('cardinal principle').	set		Comparin	Numbers				
Common and an artition	6	46 - 1						
Compare quantities	Compare quantities	use the language of:	compare and order	compare and order	order & compare	read, write, order and	read, write, order and	
using language: 'more than', 'fewer than'	up to 10 in different contexts, recognising	equal to, more than, less than (fewer),	numbers from 0 up to 100; use <, > and =	numbers up to 1000	numbers beyond 1000	compare numbers to at least 1 000 000 and	to 10 000000 and	
tilali, lewer tilali	when one quantity is	most, least			compare numbers	determine the value	determine the value	
	greater than, less than	most, least	signs		with the same	of each digit	of each digit (appears	
	or the same as the				number of decimal	(appears also in	also in Reading and	
	other quantity				places up to two	Reading and Writing	Writing Numbers)	
	other quantity				decimal places	Numbers)	Willing Wallibers)	
					( from Fractions)	ivambers)		
	understand that sets			Know that 10 tens	Know that 10	Know that 10 tenths	Understand the	
	can be compared			are equivalent to 1	hundreds are	are equivalent to 1	relationship between	
	according to a range			hundred, and that	equivalent to 1	one, and that 1 is 10	powers of 10 from 1	
	of attributes,			100 is 10 times the	thousand, and that	times the size of 0.1.	hundredth to 10	
	including by their			size of 10; apply this	1,000 is 10 times the	Know that 100	million, and use this	
	numerosity			to identify and work	size of 100; apply this	hundredths are	to make a given	
				out how many 10s	to identify and work	equivalent to 1 one,	number 10, 100,	
				there are in other	out how many 100s	and that 1 is 100	1,000, 1 tenth, 1	
				three digit multiples	there are in other	times the size of	hundredth or 1	
				of 10.		0.01. Know that 10	thousandth times the	

					four-digit multiples of 100.	hundredths are equivalent to 1 tenth, and that 0.1 is 10 times the size of 0.01.	size (multiply and divide by 10, 100 and 1,000).
	explore ways of making unequal sets equal.						
		Ide	ntifying, Representing	And Estimating Numb	pers		
Develop fast recognition of up to 3 objects, without having to count them individually ('subitising') Show 'finger numbers' up to 5	Subitise structured and unstructured patterns, including those which show numbers within 10, in relation to 5 and 10  Link the number symbol (numeral) with its cardinal number value	identify & represent numbers using objects & pictorial representations including the number line	identify, represent & estimate numbers using different representations, including the number line	identify, represent & estimate numbers using different representations	identify, represent & estimate numbers using different representations		
		Readii	ng & Writing Numbers	(Including Roman Nur	nerals)		
Link numerals & amounts: e.g. showing the right number of objects to match the numeral, up to 5 Experiment with their own symbols and marks as well as numerals	Link the number symbol (numeral) with its cardinal number value Begin to recognise numerals, relating these to quantities they can subitise and count	read & write numbers from 1 to 20 in numerals & words.	read & write numbers to at least 100 in numerals & in words	read & write numbers up to 1 000 in numerals & in words tell & write the time from an analogue clock, including using Roman numerals from I to XII, & 12- hour & 24-hour clocks (from Measurement)	read Roman numerals to 100 (I to C) & know that over time, the numeral system changed to include the concept of zero & place value.	read, write, order & compare numbers to at least 1 000 000 & determine the value of each digit (also in Comparing Numbers) read Roman numerals to M & recognise years in Roman numerals	read, write, order & compare numbers up to 10 000 000 & determine the value of each digit (appears also in Understanding Place Value)
Understanding Place Value							
	Understand the 'one more than/one less than' relationship between consecutive numbers Explore the composition of numbers to 10		Recognise the place value of each digit in two-digit numbers, and compose and decompose two-digit numbers using standard and	Recognise the place value of each digit in three-digit numbers, and compose and decompose three-digit numbers using standard and non-	Recognise the place value of each digit in four-digit numbers, and compose and decompose four-digit numbers using standard and nonstandard	read, write, order & compare numbers to at least 1000 000 & determine the value of each digit (also in Reading & Writing Numbers)	read, write, order and compare numbers up to 10 000 000 and determine the value of each digit (appears also in Reading and Writing Numbers)

	explore the concept of 'wholes' and 'parts' by looking at a range of objects that are composed of parts, some of which can be taken apart and some of which cannot		nonstandard partitioning.	standard partitioning.	partitioning find the effect of dividing a one- or two-digit number by 10 & 100, identifying the value of the digits in the answer as units, tenths & hundredths (from Fractions)	recognise & use thousandths & relate them to tenths, hundredths & decimal equivalents (from Fractions)	identify the value of each digit to three decimal places & multiply & divide numbers by 10, 100 & 1000 where the answers are up to three decimal places (from Fractions)
			Rou	nding			
					round any number to the nearest 10, 100 or 1000 round decimals with one decimal place to the nearest whole number (copied from Fractions)	round any number up to 1000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 round decimals with two decimal places to the nearest whole number and to one decimal place (copied from Fractions)	round any whole number to a required degree of accuracy solve problems which require answers to be rounded to specified degrees of accuracy (copied from Fractions)
		<u> </u>	Problen	n Solving			
Solve real world mathematical problems with numbers up to 5	use subitising skills to enable them to identify when patterns show the same number but in a different arrangement, or when patterns are similar but have a different number	use place value and number facts to solve problems Reason about the location of numbers to 20 within the linear number system, including comparing using < > and =	solve number problems and practical problems involving these ideas. Reason about the location of any two digit number in the linear number system, including identifying the previous and next multiple of 10.	solve number & practical problems that involve all of the above & with increasingly large positive numbers Reason about the location of any three digit number in the linear number system, including identifying the previous and next multiple of 100 and 10.	solve number problems and practical problems that involve all of the above Reason about the location of any four digit number in the linear number system, including identifying the previous and next multiple of 1,000 and 100	solve number and practical problems that involve all of the above Reason about the location of any number with up to 2 decimals places in the linear number system, including identifying the previous and next multiple of 1 and 0.1	use place value and number facts to solve problems Reason about the location of any number up to 10 million, including decimal fractions, in the linear number system