St Anthony's Catholic Primary School

Progression : Number and place value Programme of study (statutory requirements)



Y1	Y2	Y3	Y4	Y5	Y6
Number and place value Pupils should be taught to:	Number and place value Pupils should be taught to:	Number and place value Pupils should be taught	Number and place value Pupils should be taught to:	Number and place value Pupils should be taught to:	Number and place value
count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number (first 0- 10, then 0-20, then 0- 40, then 0-100) count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens given a number, identify one more and one less identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least read and write numbers from 1 to 20 in numerals and words	 count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward recognise the place value of each digit in a two-digit number (tens, ones) identify, represent and estimate numbers using different representations, including the number line compare and order numbers from 0 up to 100; use <, > and = signs read and write numbers to at least 100 in numerals and in words use place value and number facts to solve problems 	 to: count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number recognise the place value of each digit in a three-digit number (hundreds, tens, ones) compare and order numbers up to 1000 identify, represent and estimate numbers using different representations read and write numbers up to 1000 in numerals and in words solve number problems and practical problems involving these ideas 	 count in 10,000 count in multiples of 6, 7, 9, 25 and 1000 find 1000 more or less than a given number count backwards through zero to include negative numbers recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) order and compare numbers beyond 1000 to 10,000 identify, represent and estimate numbers using different representations round any number to the nearest 10, 100 or 1000 solve number and practical problems that involve all of the above and with increasingly large positive numbers read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value 	 read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers through zero round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 solve number problems and practical problems that involve all of the above read Roman numerals to 1000 (M) and recognise years written in Roman numerals 	Pupils should be taught to: read, write, order and compare numbers up to 10 000 000 and determine the value of each digit round any whole number to a required degree of accuracy (to nearest 10, 100, 1000, 10 000, 100 000 and 1 000 000) use negative numbers in context, and calculate intervals across zero solve number and practical problems that involve all of the above

Non-statutory

Y1	Y2	Y3	Y4	Y5	Y6
Number and place value	Number and place value	Number and place	Number and place value	Number and place value	Number and place
-	-	value	-	-	value
Pupils practise counting	Using materials and a		Using a variety of	Pupils identify the place	
(1, 2, 3), ordering (for	range of representations,	Pupils now use	representations, including	value in large whole	Pupils use the whole
example, first, second,	pupils practise counting,	multiples of 2, 3, 4, 5,	measures, pupils become	numbers.	number system,
third), or to indicate a	reading, writing and	8, 10, 50 and 100.	fluent in the order and place		including saying,
quantity (for example, 3	comparing numbers to at		value of numbers beyond	They continue to use	reading and writing
apples, 2 centimetres),	least 100 and solving a	They use larger	1000, including counting in	number in context,	numbers accurately.
including solving simple	variety of related problems	numbers to at least	tens and hundreds, and	including measurement.	
concrete problems, until	to develop fluency. They	1000, applying	maintaining fluency in other	Pupils extend and apply	Add and subtract
they are fluent.	count in multiples of three	partitioning related to	multiples through varied and	their understanding of the	negative numbers.
	to support their later	place value using	frequent practice.	number system to the	
Pupils begin to recognise	understanding of a third.	varied and increasingly		decimal numbers and	
place value in numbers		complex problems,	They begin to extend their	fractions that they have	
beyond 20 by reading,	As they become more	building on work in	knowledge of the number	met so far.	
writing, counting and	confident with numbers up	year 2 (for example,	system to include the decimal		
comparing numbers up to	to 100, pupils are	146 = 100 and 40 and	numbers and fractions that	They should recognise	
100, supported by objects	introduced to larger	6, 146 = 130 and 16).	they have met so far.	and describe linear	
and pictorial	numbers to develop	,	j	number sequences	
representations.	further their recognition of	Using a variety of	They connect estimation and	including those involving	
Use a place value chart to	patterns within the number	representations,	rounding numbers to the use	fractions and decimals,	
show numbers in tens	system and represent	including those related	of measuring instruments.	and find the term-to-term	
and ones.	them in different ways,	to measure, pupils	3	rule	
Find out how much more.	including spatial	continue to count in	Roman numerals should be		
- 1	representations.	ones, tens and	put in their historical context	They should recognise	
They practise counting as		hundreds, so that they	so pupils understand that	and describe linear	
reciting numbers and	Pupils should partition	become fluent in the	there have been different	number sequences (for	
counting as enumerating	numbers in different ways	order and place value	ways to write whole numbers	example, 3, 3 ½, 4, 4 1/2	
objects, and counting in	(for example, $23 = 20 + 3$	of numbers to 1000.	and that the important), including those	
twos, fives and tens (to	and 23 = 10 + 13) to		concepts of zero and place	involving fractions and	
100) from different	support subtraction. They	Count in hundreds,	value were introduced over a	decimals, and find the	
multiples to develop their	become fluent and apply	tens and ones.	period of time.	term-to-term rule in words	
recognition of patterns in	their knowledge of	10.10 0.10 0.100.	poriou or unite	(for example, add ½)	
the number system (for	numbers to reason with,	Complete number	Count in thousands,	(121 0/15	
example, odd and even	discuss and solve	patterns.	hundreds, tens, ones.		
numbers), including	problems that emphasise	patterns.	Escribe and complete		
varied and frequent	the value of each digit in		number patterns.		
practice through	two-digit numbers. They		named patterne.		
increasingly complex	begin to understand zero				
questions.	as a place holder.				
They recognise and					

create repeating patterns with objects and with	Make and complete number patterns.		
shapes. Make different number			
bonds for numbers up to			
10. Make number stories.			
Complete number			
patterns.			
Say a number that is 1 more or 1 less than a 2-			
digit number.			