



Strand	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
NPV	<u>1NPV-1</u> Count within 100, forwards and backwards, starting with any number.		3NPV-1 Know that 10 tens are equivalent to 1 hundred, and that 100 is 10 times the size of 10; apply this to identify and work out how many 10s there are in other three- digit multiples of 10.	4NPV-1 Know that 10 hundreds are equivalent to 1 thousand, and that 1,000 is 10 times the size of 100; apply this to identify and work out how many 100s there are in other four-digit multiples of 100.	5NPV-1 Know that 10 tenths are equivalent to 1 one, and that 1 is 10 times the size of 0.1. Know that 100 hundredths are equivalent to 1 one, and that 1 is 100 times the size of 0.01. Know that 10 hundredths are equivalent to 1 tenth, and that 0.1 is 10 times the size of 0.01.	6NPV-1 Understand the relationship between powers of 10 from 1 hundredth to 10 million, and use this to make a given number 10, 100, 1,000, 1 tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000).
		2NPV-1 Recognise the place value of each digit in two-digit numbers, and compose and decompose two-digit numbers using standard and non- standard partitioning.	3NPV-2 Recognise the place value of each digit in three-digit numbers, and compose and decompose three-digit numbers using standard and non-standard partitioning.	4NPV-2 Recognise the place value of each digit in four-digit numbers, and compose and decompose four-digit numbers using standard and non- standard partitioning.	5NPV-2 Recognise the place value of each digit in numbers with up to 2 decimal places, and compose and decompose numbers with up to 2 decimal places using standard and non- standard partitioning.	6NPV-2 Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and non- standard partitioning.
	1NPV-2 Reason about the location of numbers to 20 within the linear number system, including comparing using < > and =	2NPV-2 Reason about the location of any two- digit number in the linear number system, including identifying the previous and next multiple of 10.	3NPV-3 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.	4NPV-3 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, and rounding to the nearest of each.	5NPV-3 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 and rounding to the nearest of each.	6NPV-3 Reason about the location of any number up to 10 million, including decimal fractions, in the linear number system, and round numbers, as appropriate, including in contexts.
NPV			3NPV-4 Divide 100 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 100 with 2, 4, 5 and 10 equal parts.	4NPV-4 Divide 1,000 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 1,000 with 2, 4, 5 and 10 equal parts. →	5NPV-4 Divide 1 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in units of 1 with 2, 4, 5 and 10 equal parts.	<u>6NPV-4</u> Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts.
					5NPV-5 Convert between units of measure, including using common decimals and fractions.	





- Support

COUNTING							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
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		
count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward	count from 0 in multiples of 4, 8, 50 and 100;	count in multiples of 6, 7, 9, 25 and 1 000	count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000			
given a number, identify one more and one less		find 10 or 100 more or less than a given number	find 1 000 more or less than a given number				
		COMPARIN	G NUMBERS				
use the language of: equal to, more than, less than (fewer), most, least,	compare and order numbers from 0 up to 100; use <, > and = signs	compare and order numbers up to 1 000	order and compare numbers beyond 1 000	read, write, order and compare numbers to at least 1 000 000 and determine the value of	read, write, order and compare numbers up to 10 000 000 and determine the value of		
			compare numbers with the same number of decimal places up to two decimal places (copied from Fractions)	each digit (appears also in Reading and Writing Numbers)	each digit (appears also in Reading and Writing Numbers)		
	IDENTIFYING, REPRESENTING AND ESTIMATING NUMBERS						





identify and represent	identify, represent and	identify, represent and	identify, represent and	
numbers using objects	estimate numbers using	estimate numbers using	estimate numbers using	
and pictorial	different representations,	different representations	different representations	
representations including	including the number line			
the number line				

READING AND WRITING NUMBERS (including Roman Numerals)								
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
read and write numbers from 1 to 20 in numerals and words.	read and write numbers to at least 100 in numerals and in words	read and write numbers up to 1 000 in numerals and in words tell and write the time from an analogue clock, including using Roman numerals from I	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 (appears also in Comparing Numbers) read Roman numerals to 1 000 (M) and recognise years written in Roman	read, write, order and compare numbers up to 10 000 000 and determine the value of each digit (appears also in Understanding Place Value)			
		to XII, and 12-hour and 24- hour clocks (copied from Measurement)		numerals.				
	UNDERSTANDING PLACE VALUE							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			





recognise the place value of each digit in a two-digit number (tens, ones)	recognise the place value of each digit in a three- digit number (hundreds, tens, ones)	recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)	read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit (appears also in Reading and 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)
		find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as units, tenths and hundredths (copied from Fractions)	recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents (copied from Fractions)	identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1 000 where the answers are up to three decimal places (copied from Fractions)

ROUNDING							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
			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 (copied from Fractions)	round decimals with two decimal places to the nearest whole number and to one decimal place (copied from Fractions)	solve problems which require answers to be rounded to specified degrees of accuracy (copied from Fractions)		
PROBLEM SOLVING							





	use place value and number facts to solve problems	solve number problems and practical problems involving these ideas.	solve number and practical problems that involve all of the above and with increasingly large positive numbers	solve number problems and practical problems that involve all of the above	solve number and practical problems that involve all of the above				
	Stem Sentences and Generalisations								
	The whole is and one part is so the other part must be One hundred is divided into equal parts so each part/ division has a value of								
	s bundrods and onos is	tons and ones i	s bundrods tons and	0005					
is onesis	s hundreds and ones is	tens and ones is	s nundreds, tens and	ones.					
	Place Value (KS1)			Place Value (KS2)					
	The number is It has	tens and ones.	The number is It has millions, thousands, hundreds, tens and ones.						
	A whole is always bigger th	•							
	A part is always smaller than a who		To compare numbers, look at the digits in matching places in the numbers, starting from the place with		-				
To compare two-digit numbers, we		<i>.</i>	e the highest value, for example from the left.		ft.				
	the tens digits. If the tens digits need to compare the on		-	ers are less than zero. s are greater than zero.					
	Consecutive numbers have	a difference of one.							





Misconceptions

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