Strand – Place Value					
Rationale					
The Place Value Strand runs throughout primary school. It is split into six sections: counting, comparing numbers, reading and writing numbers, understanding place value, rounding and problem solving. The skills in this strand underpin other areas of mathematics and are therefore always a starting point in each year group.					
Learning					
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, 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	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. Find 10 or 100 more or less than a given number.	Count backwards through zero to include negative numbers. Count in multiples of 6, 7, 9, 25 and 1000. Find 1000 more or less than a given number.	Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero. Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000.	Use negative numbers in context, and calculate intervals across zero.
Comparing numbers					
Year 1	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Year 6**
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 1000.	Order and compare numbers beyond 1 000. Compare numbers with the same number of decimal places up to two decimal places (copied from Fractions).	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 000000 and determine the value of each digit (appears also in Reading and Writing Numbers).
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 to XII, and 12-hour and 24-hour clocks (copied from Measurement).	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, write, order and compare numbers up to 10 000 000 and determine the value of each digit (appears also in Understanding Place Value).
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). 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).	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). Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents (copied from Fractions).	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). 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 decimals with one decimal place to the nearest whole number (copied from Fractions).	Round any number up to 1 000 000 to the nearest 10, 100, 1 000, 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).
Problem Solving					
Year 1	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Year 6**
	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.
Key Vocabulary					
units, ones tens, hundreds, thousands ten thousand, hundred thousand, million digit, one-, two-, three- or four-digit number numeral 'teens' number place, place value stands for, represents exchange the same number as, as many as equal to Of **two** objects/amounts: >, greater than, more than, larger than, bigger than <, less than, fewer than, smaller than		last, last but one before, after next between, half-way between guess how many, estimate nearly, roughly, close to, about the same as approximate, approximately ⊕, is approximately equal to just over, just under exact, exactly too many, too few, enough, not enough round (up or down), nearest round to the nearest ten/hundred/thousand integer, positive, negative above/below zero, minus		sequence continue predict pattern, pair, rule relationship sort, classify, property formula divisible (by), divisibility, factor, factorise square number one squared, two squared… (1_2, 2_2…) prime, prime factor pattern, puzzle calculate, calculation mental calculation method, strategy	

≥, greater than or equal to ″, less than or equal to Of **three** or more objects/amounts: greatest, most, largest, biggest least, fewest, smallest one… ten… one hundred… one thousand more/less compare, order, size ascending/descending order first… tenth… twentieth	number, count, how many…? odd, even every other how many times? multiple of digit next, consecutive	jotting answer right, correct, wrong what could we try next? how did you work it out? number sentence sign, operation, symbol, equation