



Number: Number and Place Value

COUNTING							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>recite numbers to 10</p> <p>one to one correspondence counting up to 5 objects</p> <p>know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle').</p>	<p>count objects, actions, and sounds.</p> <p>count reliably with numbers 1 – 20</p> <p>verbally count beyond 20</p>	<p>count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number</p>				<p>interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero</p>	<p>use negative numbers in context, and calculate intervals across zero</p>
		<p>count, read and write numbers to 50 in numerals; count in multiples of twos, fives and tens</p>	<p>count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward</p>	<p>count from 0 in multiples of 4, 8, 50 and 100;</p>	<p>count in multiples of 6, 7, 9, 25 and 1000</p>	<p>count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000</p>	
	<p>understand one more and one less with consecutive numbers</p>	<p>given a number, identify one more and one less</p>		<p>find 10 or 100 more or less than a given number</p>	<p>find 1000 more or less than a given number</p>		
COMPARING NUMBERS							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>compare quantities using</p>	<p>compare numbers to 10.</p>	<p>use the language of: equal to, more</p>	<p>compare and order numbers from 0 up</p>	<p>compare and order numbers up</p>	<p>order and compare</p>	<p>order and compare numbers to at least</p>	<p>order and compare numbers up to</p>



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language: 'more than', 'fewer than'.	Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.	than, less than (fewer), most, least compare and order numbers to 20.	to 100; use <, > and = signs	to 1000	numbers beyond 1,000 (up to 10,000)	1,000,000 and determine the value of each digit	10,000,000 and determine the value of each digit
					compare numbers with the same number of decimal places up to two decimal places	order and compare numbers with up to three decimal places	

IDENTIFYING, REPRESENTING AND ESTIMATING NUMBERS

Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>subitise to 3</p> <p>show fingers to 5</p> <p>link numerals and amounts up to 5</p> <p>experiment with own symbols and marks as well as numerals</p>	<p>identify and represent numbers to 10 in a range of ways</p> <p>subitise to 5</p>	<p>identify and represent numbers to 50 using objects and pictorial representations including standard partitioning, non-standard partitioning and the number line</p>	<p>identify, represent and estimate numbers to 100 using different representations, including standard partitioning, non-standard partitioning and the number line</p>	<p>identify, represent and estimate numbers to 1000 using different representations including standard partitioning, non-standard partitioning and the number line</p> <p>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.</p>	<p>identify, represent and estimate numbers to 10,000 using different representations including standard partitioning, non-standard partitioning and the number line</p> <p>divide 1,000 into 2, 4, 5 and 10 equal parts, and read scales/number</p>	<p>identify, represent and estimate numbers to 1,000,000 using different representations including standard partitioning, non-standard partitioning and the number line</p> <p>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.</p>	<p>identify, represent and estimate numbers to 10,000,000 using different representations including standard partitioning, non-standard partitioning and the number line</p> <p>divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines</p>



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					lines marked in multiples of 1,000 with 2, 4, 5 and 10 equal parts		with labelled intervals divided into 2, 4, 5 and 10 equal parts.
READING AND WRITING NUMBERS (including Roman Numerals)							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
link numerals and amounts up to 5 experiment with own symbols and marks as well as numerals	recognise numerals up to 20 linked to quantities/objects link the number symbol (numeral) with its cardinal number value.	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	read and write numbers up to 10,000 read and write numbers with up to 2 decimal places	read and write numbers up to at least 1,000,000 read and write numbers with up to three decimal places	read and write numbers up to 10,000,000
				read Roman numerals from I to XII	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 Roman numerals to 1000 (M) and recognise years written in Roman numerals.	



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UNDERSTANDING PLACE VALUE							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	<p>understand the 'one more than/one less than' relationship between consecutive numbers.</p> <p>have a deep understanding of numbers to 10, including the composition of each number.</p>	<p>recognise the place value of each digit in numbers up to 20</p> <p>reason about the location of numbers to 50 in the linear number system</p>	<p>recognise the place value of each digit in a 2-digit number (tens, ones)</p> <p>partition 2-digit numbers into different combinations of tens and ones</p> <p>reason about the location of numbers to 100 in the linear number system</p>	<p>recognise the place value of each digit in a 3-digit number (hundreds, tens, ones)</p> <p>reason about the location of numbers to 1000 in the linear number system</p> <p>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 3-digit multiples of 10.</p>	<p>recognise the place value of each digit in a 4-digit number (thousands, hundreds, tens, and ones)</p> <p>identify the value of each digit in numbers to 1 decimal place</p> <p>reason about the location of numbers to 10,000 and those with 1dp in the linear number system</p> <p>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</p>	<p>recognise the place value of each digit in a 5 or 6-digit number</p> <p>identify the value of each digit in numbers up to 2 decimal places</p> <p>reason about the location of numbers to 1,000,000 and those with 2dp in the linear number system</p> <p>know that 10 tenths are equivalent to 1 one, and that 1 is 10 times the size of 0.1.</p> <p>know that 100 hundredths are equivalent to 1 one, and that 1 is 100 times the size of 0.01.</p> <p>know that 10 hundredths are equivalent to 1 tenth, and that 0.1 is 10</p>	<p>recognise the place value of each digit in a 7-digit number</p> <p>identify the value of each digit to three decimal places</p> <p>reason about the location of numbers to 10,000,000 and those with 2dp in the linear number system</p> <p>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).</p>



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					four-digit multiples of 100.	times the size of 0.01.	
ROUNDING							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			identify previous and next multiple of 10	identify previous and next multiple of 10 or 100	identify previous and next multiple of 10, 100 or 1000 round any number to the nearest 10, 100 or 1000	identify previous and next multiple of 10, 100, 1000, 10,000 or 100,000 round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000	identify previous and next multiple of 10, 100, 1000, 10,000 or 1,000,000 round any whole number to a required degree of accuracy
					identify previous and next whole number round decimals with one decimal place to the nearest whole number	identify previous and next whole number or multiple of 0.1 round decimals with two decimal places to the nearest whole number and to one decimal place	identify previous and next whole number, multiple of 0.1 or 0.01 round any decimal number to a required degree of accuracy solve problems which require answers to be rounded to specified degrees of accuracy



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PROBLEM SOLVING							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
solve real world mathematical problems with numbers up to 5.	solve real world mathematical problems with numbers up to 10. explore and represent patterns within numbers up to 10.	solve simple number problems involving y1 number criteria	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