

Number: Number and Place Value



COUNTING

Nursery

say number names **Autumn**
give a number of objects **Spring**
say numbers in order to 10 **Spring**
count irregular arrangements to 10 **Summer**

Reception

count objects, actions and sounds on a frame **Autumn**
count to 5 backwards and forwards **Autumn**
count to 10 backwards and forwards **Spring**
count on and back beyond 10 starting from different points **Summer**
place sequences of number in order **Summer**

Year 1

Year 2

Year 3

Year 4

Year 5

Year 6



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<p>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</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; find 10 or 100 more or less than a given number</p>	<p>count backwards through zero to include negative numbers count in multiples of 6, 7, 9, 25 and 1 000 find 1 000 more or less than a given number</p>	<p>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</p>	<p>use negative numbers in context, and calculate intervals across zero</p>
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COMPARING NUMBERS

COMPARING NUMBERS					
Nursery		Reception			
able to compare two groups identifying when there is the same number Autumn match numbers to objects Spring		match and sort objects Autumn compare amounts Autumn compare 1, 2 and 3 Autumn compare numbers to 5 Autumn compare numbers to 8 Spring compare numbers (two and three quantities) up to 10 Spring			
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 Autumn and Spring	compare and order numbers from 0 up to 100; use <, > and = signs Autumn and Spring	compare and order numbers up to 1 000 Autumn	order and compare numbers beyond 1 000 <i>compare numbers with the same number of</i>	read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit	read, write, order and compare numbers up to 10 000 000 and determine the value of each digit (appears

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			<p><i>decimal places up to two decimal places</i> (copied from Fractions) Spring</p>	<p>(appears also in Reading and Writing Numbers) Autumn</p>	<p>also in Reading and Writing Numbers) Autumn</p>
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IDENTIFYING, REPRESENTING AND ESTIMATING NUMBERS



Nursery

give a number of objects **Autumn**
 represent numbers using fingers and marks on paper/pictures **Spring**
recognise numbers to 5 Summer count objects and actions up to 10
Summer represent numbers to 10 Summer

Reception

subitise and represent number 1, 2, 3 and 5 **Autumn**
 understand the composition of numbers 1, 2 and 3 **Autumn**
 know what zero is **Spring**
 understand of the composition of 4 and 5 **Spring**
 represent numbers to 5 **Spring**
 understand the composition of 6, 7, 8, 9 and 10 **Spring**
 represent numbers to 8 **Spring**
 subitise numbers to 10 **Spring**
 arrange numbers up to 10 into smaller groups **Spring**
 represent numbers to 10 (and beyond 20) **Summer**
 represent number stories using ten frames **Summer**
 identify numbers to and beyond 20 **Summer**



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Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
identify and represent numbers using objects and pictorial representations including the number line	identify, represent and estimate numbers using different representations, including the number line	identify, represent and estimate numbers using different representations	identify, represent and estimate numbers using different representations		

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READING AND WRITING NUMBERS (including Roman Numerals)

				Reception read and write numbers to 5 Autumn read and write numbers to 10 Spring read and write numbers beyond 10 Summer	
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 100	read and write numbers to at least 100 in numerals and in words	read and write numbers up to 1000 in numerals and in words		read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit	read, write, order and compare numbers up to 10 000 000 and determine the value of each digit



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		<p><i>tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks</i></p>	<p>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.</p>	<p>read Roman numerals to 1 000 (M) and recognise years written in Roman numerals.</p>	
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UNDERSTANDING PLACE VALUE

UNDERSTANDING PLACE VALUE					
	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) <i>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</i>	read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit <i>recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents</i>	read, write, order and compare numbers up to 10 000 000 and determine the value of each digit <i>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</i>

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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
			<i>round decimals with one decimal place to the nearest whole number</i>	<i>round decimals with two decimal places to the nearest whole number and to one decimal place</i>	<i>solve problems which require answers to be rounded to specified degrees of accuracy</i>



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		PROBLEM SOLVING			
Year 1	Year 2 use place value and number facts to solve problems	Year 3 solve number problems and practical problems involving these ideas.	Year 4 solve number and practical problems that involve all of the above and with increasingly large positive numbers	Year 5 solve number problems and practical problems that involve all of the above	Year 6 solve number and practical problems that involve all of the above