



Maths Skills Progression Map: Number and Place Value

Please note that this progression framework has been taken from NCETM to show progression of the different maths strands. Skills may appear more than once as some skills support more than one area of progression



	Counting			Reading and Writing Numbers	Understanding Place Value	Identifying, Representing and Estimating Numbers
EYFS	Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle')		Understand the 'one more than/one less than' relationship between consecutive numbers	<p>Say one number for each item in order: 1,2,3,4,5</p> <p>Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5</p> <p>Experiment with their own symbols and marks as well as numerals</p> <p>Recite numbers past 5</p> <p>Count beyond 10</p>		<p>Develop fast recognition of up to 3 objects, without having to count them individually ('subitising')</p> <p>Show 'finger numbers' up to 5</p>
Year 1	Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number	Count in multiples of twos, fives and tens	Given a number, identify one more and one less	<p>Count, read and write numbers to 100 in numerals</p> <p>Read and write numbers from 1 to 20 in numerals and words.</p>	Understand 1s and 10s	Identify and represent numbers using objects and pictorial representations including the number line
Year 2		Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward		Read and write numbers to at least 100 in numerals and in words	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
Year 3		Count from 0 in multiples of 4, 8, 50 and 100	Find 10 or 100 more or less than a given number	Read and write numbers up to 1 000 in numerals and in words	Recognise the place value of each digit in a three-digit number (hundreds, tens, ones)	Identify, represent and estimate numbers using different representations



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Year 4	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	Read and write numbers up to 10 000 in numerals and words	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	Identify, represent and estimate numbers using different representations
Year 5	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		Read and write numbers to at least 1 000 000	Determine the value of each digit up to 1 000 000 (hundred thousand, ten thousand, thousand, hundred, tens, ones) Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	
Year 6	Use negative numbers in context, and calculate intervals across zero			Read and write numbers to at least 10 000 000	Determine the value of each digit up to 10 000 000 (million, hundred thousand, ten thousand, thousand, hundred, tens, ones) 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	



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	Roman Numerals	Comparing Numbers	Rounding
EYFS		Compare quantities using language: 'more than', 'fewer than' Compare numbers to 10	
Year 1		Use the language of: equal to, more than, less than (fewer), most, least	
Year 2		Compare and order numbers from 0 up to 100; use <, > and = signs	
Year 3	Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks	Compare and order numbers up to 1 000	
Year 4	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.	Order and compare numbers beyond 1 000	Round any number to the nearest 10, 100 or 1 000 Round decimals with one decimal place to the nearest whole number
Year 5	Read Roman numerals to 1 000 (M) and recognise years written in Roman numerals.	Order and compare numbers to at least 1 000 000	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
Year 6		Order and compare numbers up to 10 000 000	Round any whole number to a required degree of accuracy Solve problems which require answers to be rounded to specified degrees of accuracy