



Maths Progression Map– 2022

Number and Place Value

Year group/ Expected level	Number and place value		
Nursery	- Develop fast recognition of up to 3 objects, without having to count them individually ([subitising']). (M) - Recite numbers to past 5. (M) - Say one number for each item in order: 1,2,3,4,5. (M) - Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle'). (M) - Show 'finger numbers' up to 5. (M) - Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5. (M) - Experiment with their own symbols and marks as well as numerals. (M) - Compare quantities using language: 'more than', 'fewer than'. (M)		
Reception	- Count objects, actions and sounds.(M) - Subitise.(M) - Link the number symbol (numeral) with its cardinal number value. (M) - Count beyond ten.(M) - Compare numbers.(M) - Explore the composition of numbers to 10.(M) - Have a deep understanding of numbers to 10, including the composition of each number. (M) - Subitise (recognise quantities without counting) up to 5. (M) - Verbally count beyond 20, recognising the patterns of the counting system. (M) - Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.(M) - Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.(M)		
Year 1	Term 1 - Count up to 20 - Put all the numbers from 0 to 20 in the right order - Understand that numbers stay the same even if objects are moved around - Compare and order numbers to 20 and beyond - Recognise and represent numbers up to 20 using pictures and objects e.g. dienes or groups of tens and ones.	Term 2 - Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number - Put numbers to 100 in the right order - Order and compare numbers to 100 - Know the multiples of 2 - Understand what more or less means when counting in 1s - Know the multiples of 10 - Understand what more or less means when counting in 10s - Know the multiples of 5	Term 3 - Write and understand numbers up to 100 - Understand what the word equals means - Read and write all the numbers from 0 to 20 and beyond in words - Find patterns in numbers (including odd and even) - Answer questions by sorting and recording - Understand what the words equals, more than, less than, most, least, mean

Year 2	Term 1 - Count up to 100 objects using quick methods - Record complete calculations using number sentences - Find odd and even patterns when counting from two-digit numbers	Term 2 - Count in steps of 2, 3, and 5 from 0, and in 10s from any number, forward and backward - Read and write numbers up to 100 and beyond using numerals and words - Recognise the place value of each digit in a two-digit number - Identify, represent and estimate numbers using different representations, including the number line - Partition two-digit numbers	Term 3 - Compare and order numbers from 0 to 100 using greater than and less than - Find patterns when counting from three digit numbers - Use place value and number facts to solve problems
Year 3	Term 1 - Read and write numbers up to 1000 in numerals and words. - Recognise the value of each digit in a three -digit number. - Compare and order numbers to 1000 using $<$ $>$ $=$ - Find 10 or 100 more of a number. - Count from 0 in multiples in 4, 8, 50 and 100.	Term 2 - Use and write ordinal numbers to describe position – 1st, 2nd... - Identify, represent and estimate numbers up to 1000 objects. - Find and write number sequences	Term 3 - Know number bonds for numbers to at least 20 - Know pairs of numbers that make 100
Year 4	Term 1 - Know multiples of 10,100, 1000 - Find 10, 100 or 1000 more or less than a number - Recognise the place value of each digit in a four-digit number - Read, write order and compare numbers beyond 1000 - Round numbers to the nearest 10,100 or 1000	Term 2 - Extend number sequences counting on or back in different steps including using multiplication and division. - Count in multiples of 6,7,9,25 and 1000 - Count backwards through zero to include negative numbers	Term 3 - Read Roman numerals to 100 - Identify and estimate numbers using different representations ($156 = 100 + 50 + 6$ or $120 + 30 + 6$) - Solve inverse number problems
Year 5	Term 1 - Read, write, order and compare numbers up to a million - Count forwards and backwards in steps of powers of 10 for any given number up to 1,000,000 - Determine the value of each digit in numbers up to 1,000,000	Term 2 - Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 1,000,000 - Interpret negative numbers in context and count forwards and backwards with positive and negative numbers	Term 3 - Read Roman numerals to 1000 and years in Roman numerals - Multiply and divide mentally using know facts
Year 6	Term 1 - Read, write, order and compare numbers to ten million - Determine the value of each digit in numbers up to ten million - Round any number	Term 2 - Check my answers using number facts and rounding - Solve missing number problems	Term 3 Solve inverse number problems