

Maths Skills Progression-Place Value.

Year	Key Skills
N	<p>Subitising to 3 Recites number past 5 1-1 correspondence upto 5 Show 'finger numbers' upto 5 Links numerals and amounts upto 5 Solve real-life maths problems upto 5 Compare quantities using language – fewer than/more than Talk about and explore 2D shapes and 3D shapes Select shapes appropriately e.g. flat surfaces for a roof. Combine shapes to make new ones Understand positional language Describe a familiar route and discuss routes and locations using words like 'in front of'. Make comparisons between objects relating to size, length, weight and capacity. Talk about and identify patterns around them (e.g. spotty) Extend and create ABABAB patterns Begin to describe sequence of events</p>
R	<p>Counting objects, actions and sounds Subitising to 10. Understand one more and one less- the relationships between numbers Count beyond 10. Recall number bonds 0-5 and some to 10. Explore the composition of 10. Compare numbers to 10. Link number symbol and its cardinal number value. Read and Write number 0-10.</p>
1	<p>Count to and across 100, forwards and backwards, beginning with 0 or 1, or from a 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. Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than, most, least. Read and write numbers from 1-20 in numerals and words.</p>

2	<p>Count in steps of 2, 3 and 5 from 0 and in tens from any number, forward and backwards.</p> <p>Recognise the place value of each digit in a two-digit number (tens and ones). Use place value and number facts to solve problems.</p> <p>Identify, represent and estimate numbers using different representations, including the number line.</p> <p>Compare and order numbers from 0 up to 100; use $<$, $>$ and $=$.</p> <p>Read and write numbers to at least 100 in numerals and words.</p>
3	<p>Count from 0 in multiples of 4, 8, 50 and 100.</p> <p>Find 10 or 100 more or less than a given number.</p> <p>Recognise the place value of each digit in a three-digit number (hundreds, tens, ones).</p> <p>Identify, represent and estimate numbers using different representations.</p> <p>Compare and order numbers up to 1, 000.</p> <p>Read and write numbers up to 1000 in numerals and in words.</p> <p>Solve number problems and practical problems involving these ideas.</p>
4	<p>Count in multiples of 6, 7, 9, 25 and 1000.</p> <p>Count backwards through zero to include negative numbers.</p> <p>Find 1, 000 more or less than a given number.</p> <p>Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens and ones).</p> <p>Identify, represent and estimate numbers using different representations.</p> <p>Order and compare numbers beyond 1000.</p> <p>Round any number to the nearest 10, 100 or 1000.</p> <p>Solve number and practical problems that involve all of the above and with increasingly large positive numbers.</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>
5	<p>Count forwards or backwards in steps of powers of 10 for any given number up to 1, 000, 000.</p> <p>Read, write, order and compare numbers to at least 1, 000, 000 and determine the value of each digit.</p> <p>Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.</p> <p>Round any number up to 1, 000, 000 to the nearest 10, 100, 1000, 10, 000 and 100, 000.</p> <p>Solve number problems and practical problems that involve all of the above.</p> <p>Read Roman Numerals to 1, 000 (M) and recognise years written in Roman Numerals.</p>

6	<p>Read, write, order and compare numbers up to 10, 000, 000 and determine the value of each digit.</p> <p>Use negative numbers in context, and calculate intervals across zero.</p> <p>Round any whole number to a required degree of accuracy.</p> <p>Solve number and practical problems that involve all of the above.</p>
7	<p>Understand and use place value for decimals, measures and integers of any size.</p> <p>Order positive and negative integers, decimals and fractions; use the number line as a model for ordering of the real numbers; use the symbols =, ≠, <, >, ≤, ≥.</p> <p>Round numbers and measures to an appropriate degree of accuracy.</p> <p>Use approximation through rounding to estimate answers and calculate possible resulting errors expressed using inequality notation.</p>

Year 4 – Progression

<p>Autumn 1</p> <p>Mental strategies in addition and subtraction, including the use of a robust understanding of place value.</p>	<p>Read, write 4-digit numbers and know what each digit represents. Compare 4-digit numbers using < and > and place on a number line.</p>
<p>Autumn 2</p> <p>Using place value to underpin an understanding of different methods in subtraction and to choose between these.</p>	<p>Round 4-digit numbers to the nearest: 10, 100 and 1, 000.</p> <p>Subtract 3-digit numbers using the expanded written version and the counting up mental strategy and decide which to use.</p>
<p>Spring 1</p> <p>Robust understanding of place value and numbers to 10,000, including counting in equal steps; this understanding is then used to underpin mental addition and subtraction.</p>	<p>Place 4-digit numbers on landmarked lines: 0–10, 000 and 1, 000–2, 000. Round 4-digit numbers to the nearest 10, 100 and 1,000.</p> <p>Mentally add and subtract to/from 4-digit and 3-digit numbers using place-value.</p> <p>Count on and back in multiples of 10, 100 and 1000.</p> <p>Count on in multiples of 25 and 50.</p>
<p>Spring 2</p> <p>Understanding of place value to solve subtraction problems using appropriate methods.</p>	<p>Understand place value in 4-digit numbers.</p> <p>Partition 4-digit numbers solve subtraction of 4-digit numbers using column subtraction (decomposition).</p> <p>Choose an appropriate method to solve subtractions, either mental or written, and either column or counting up</p>
<p>Summer 1</p> <p>Consolidating place value in 4- and 5-digit numbers, extending to decimals; including multiplying and dividing by 10 and 100, placing numbers (including</p>	<p>Read, write and compare 4-digit numbers and place on a line.</p> <p>Find 1,000 more or less than any given number.</p> <p>Read, write and compare 5-digit numbers.</p> <p>Recognise what each digit represents in a 5-digit number.</p>

negative) on lines, and adding and subtracting powers of 10.	Read, use and compare negative numbers in the context of temperature.
Summer 2	Application across areas.