

Curriculum Area Progression Summary

Area of Learning: Maths – Number



Stage	Summary of key skills and knowledge to be acquired
4	<ul style="list-style-type: none"> ● Recites some number names in sequence. ● Selects a small number of objects from a group when asked, for example, 'please give me one', 'please give me two'. ● Uses some language of quantities, such as 'more' and 'a lot' to make comparisons
5	<ul style="list-style-type: none"> ● Recites numbers in order to 10. ● Sometimes matches numeral and quantity correctly. ● Shows an interest in number problems. ● Shows curiosity about numbers by offering comments or asking questions. ● Knows that numbers identify how many objects are in a set.
6	<ul style="list-style-type: none"> ● Consolidates knowledge of numerals 1-5, recognising them consistently by name. ● Develops knowledge of number and counting to up to 10 objects, beginning to count beyond 10. ● Develops knowledge of estimation, estimating how many objects they see and counting to check (within 10). ● Demonstrates knowledge of the concepts of 'more' and 'fewer' to compare two sets of objects. ● Develops knowledge of sharing and is able to share a group of objects with peers.
7	<ul style="list-style-type: none"> ● Count reliably from 1 to 20. ● Develop and apply knowledge of addition by adding 2 numbers (groups of objects) and counting to find total (within 10). ● Develops knowledge of the commutative law (e.g. $3 + 2 = 5$, therefore $2 + 3 = 5$). ● Demonstrate an understanding of inverse relationships involving addition and subtraction (e.g. if $3 + 2 = 5$, then $5 - 2 = 3$). ● Apply developing knowledge of numbers and equations to include problems involving doubling, halving and sharing.
8	<ul style="list-style-type: none"> ● Read and write numbers in numerals up to 100 ● Develops knowledge of place value, applying these skills to partition a two-digit number into tens and ones using structured resources to support. ● Demonstrates developing knowledge of addition and subtraction with two-digit numbers and ones, and two-digit numbers and tens, where no regrouping is required, explaining their method verbally, in pictures or using apparatus (e.g. $23 + 5$; $46 + 20$; $16 - 5$; $88 - 30$) ● Count in groups of twos, fives and tens from 0 and use this to solve problems
9	<ul style="list-style-type: none"> ● Uses developing knowledge of place value and partitioning, to partition any two-digit number into different combinations of tens and ones, explaining their thinking verbally, in pictures or using apparatus ● Recall all number bonds to and within 10 and use these to reason with and calculate bonds to and within 20, recognising other associated additive relationships (e.g. If $7 + 3 = 10$, then $17 + 3 = 20$; if $7 - 3 = 4$, then $17 - 3 = 14$; leading to if $14 + 3 = 17$, then $3 + 14 = 17$, $17 - 14 = 3$ and $17 - 3 = 14$) ● Recall multiplication and division facts for 2, 5 and 10 and use them to solve simple problems, demonstrating an understanding of commutativity as necessary

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	<ul style="list-style-type: none"> Develop knowledge of fractions, applying these skills to recognise, find, name and write fractions ($\frac{1}{2}$, $\frac{1}{4}$) of a set of objects, write simple fractions e.g. $\frac{1}{2}$ of 6 = 3,
10	<ul style="list-style-type: none"> To develop knowledge of rounding to round two-digit numbers to the nearest 10 Demonstrate knowledge of place value to compare, order and recognise the place value of a 3-digit numbers and begin to partition (hundreds, tens, ones) Compare and order numbers up to 1000 Show an understanding of negative numbers including be able to count backwards through 0 Find 10 or 100 more or less from a given number Solve problems, including missing number problems, using number facts and place value etc with increasingly large positive numbers Begin to understand multiplication facts for 3, 4 and 8 Recognise, find and write fractions of a discrete set of objects, compare and order fractions with same denomination, add and subtract fractions with same denomination within one whole.
11	<ul style="list-style-type: none"> To be able to 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 1000 in numerals and in words Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects. Recognise and write decimal equivalents of any number of tenths or hundredths.
12	<ul style="list-style-type: none"> Count in multiples of 6, 7, 9, 25 and 1000. Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones). Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate. Multiplication and Division recall multiplication and division facts for multiplication tables up to 12×12. Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects. Recognise and write decimal equivalents of any number of tenths or hundredths. Round decimals with one decimal place to the nearest whole number.
13	<ul style="list-style-type: none"> Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit. Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000. Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero. Add and subtract numbers mentally with increasingly large numbers.

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	<ul style="list-style-type: none">● Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign.● Read, write, order and compare numbers with up to three decimal places.
14	<ul style="list-style-type: none">● Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit.● Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context.● Solve problems involving addition, subtraction, multiplication and division.● Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy. ● Use written division methods in cases where the answer has up to two decimal places.● Solve problems which require answers to be rounded to specified degrees of accuracy.