

## Maths Objectives – Number & Place Value

Key Stage	Objective	Child Speak Target
KS 1 Y1	Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number.	<i>I can count up and down from 0 to 100 and more.</i>
KS 1 Y1	Count, read and write numbers to 100 in numerals.	<i>I can count, read and write numbers up to 100.</i>
KS 1 Y1	Count in multiples of twos, fives and tens.	<i>I can count in 2 or 5 or 10.</i>
KS 1 Y1	Given a number, identify one more and one less.	<i>When you show me a number, I can tell you what is one more and one less.</i>
KS 1 Y1	Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least.	<i>I can find numbers on a number line when I am solving problems with questions using equal to, more than, less than, most and least.</i>
KS 1 Y2	Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward.	<i>I can count forward and backward in steps of 2, 3, and 5 from 0, and make jumps in tens from any number.</i>
KS 1 Y2	Recognise the place value of each digit in a two-digit number (tens, ones).	<i>I know what each digit means in Tens and Unit numbers such as 24.</i>
KS 1 Y2	Identify, represent and estimate numbers using different representations, including the number line.	<i>I can find and show numbers on a number line.</i>
KS 1 Y2	Compare and order numbers from 0 up to 100.	<i>I can order numbers up to 100 and tell you which numbers are bigger or smaller.</i>
KS 1 Y2	Use greater than, less than and = signs.	<i>I use the greater than, less than and equals signs in maths and know what they mean.</i>
KS 1 Y2	Read and write numbers to at least 100 in numerals and in words.	<i>I can read and write numbers to 100 in digits and words.</i>
KS 1 Y2	Use place value and number facts to solve problems.	<i>I solve problems using number facts such as <math>18+2=20</math> and what I know about the value of digits in a number.</i>
KS 2 Y3	Count from 0 in multiples of 4, 8, 50 and 100.	<i>I can count from 0 in steps of 4, 8, 50 and 100.</i>
KS 2 Y3	Find 10 or 100 more or less than a given number.	<i>I can find 10 or 100 more or less than a given number.</i>
KS 2 Y3	Recognise the place value of each digit in a three-digit number including up to 1 decimal place	<i>I know what each digit means in Hundred Tens and Unit numbers such as 204.</i>
KS 2 Y3	Compare and order numbers up to 1000.	<i>I can compare and order numbers up to 1000.</i>
KS 2 Y3	Identify, represent and estimate numbers using different representations.	<i>I can identify and estimate numbers in different units such as length (mm and m) and weight (g and kg).</i>
KS 2 Y3	Read and write numbers up to 1000 in numerals and in words.	<i>I read and write numbers up to 1000 in numerals and in words.</i>
KS 2 Y3	Solve number problems and practical problems involving working with and estimating numbers up to 1000 in a variety of units.	<i>I can solve number problems, working with numbers up to 1000 and in different units of measurement.</i>
KS 2 Y4	Count in multiples of 6, 7, 9, 25 and 1000.	<i>I can count in multiples of 6, 7, 9, 25 and 1000.</i>
KS 2 Y4	Find 1000 more or less than a given number.	<i>I can find 1000 more or less than a given number.</i>
KS 2 Y4	Count backwards through zero to include negative numbers.	<i>I can count backwards to negative numbers below zero.</i>
KS 2 Y4	Recognise the place value of each digit in a four-digit number including up to 2 decimal places	<i>I know what each digit means in Thousands, Hundreds Tens and Unit numbers such as 2024.</i>
KS 2 Y4	Order and compare numbers beyond 1000.	<i>I can order and compare numbers above 1000.</i>
KS 2 Y4	Identify, represent and estimate numbers using different representations.	<i>I can makes estimates of a range of things - such as how many small objects there are in a large jar, how long in cm an object is, how heavy an object may weigh in kg.</i>
KS 2 Y4	Round any number to the nearest 10, 100 or 1000.	<i>I can round a number to the nearest 10, 100 or 1000.</i>
KS 2 Y4	Solve number and practical problems that involve rounding, ordering and exploring negative numbers and with increasingly large positive numbers.	<i>I can solve number and practical problems that involve rounding, ordering and exploring negative numbers and with increasingly large positive numbers.</i>
KS 2 Y4	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.	<i>I can 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.</i>

Key Stage	Objective	Child Speak Target
KS 2 Y5	Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit.	<i>I can read, write, order and compare numbers to at least 1 000 000 and know the value of each digit.</i>
KS 2 Y5	Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000.	<i>I count forwards or backwards in steps 10, 100, 1000, 10000 or 100000 for any given number up to 1000000.</i>
KS 2 Y5	Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.	<i>I can use negative numbers in my work and can count backwards and forwards to and from negative numbers.</i>
KS 2 Y5	Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000.	<i>I can round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000.</i>
KS 2 Y5	Solve number problems and practical problems that involve numbers up to 1000000, negative numbers, rounding or jumping in steps.	<i>I can solve number problems and practical problems that involve numbers up to 1000000, negative numbers, rounding or jumping in steps.</i>
KS 2 Y5	Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.	<i>I can read Roman numerals to 1000 (M) and recognise years written in Roman numerals.</i>
KS 2 Y6	Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit.	<i>I can work with numbers up to 10 000 000 and know what each digit represents.</i>
KS 2 Y6	Round any whole number to a required degree of accuracy.	<i>I can round a whole number as requested - for example to the nearest 10 or 1000 or 100000.</i>
KS 2 Y6	Use negative numbers in context, and calculate intervals across zero.	<i>I understand and use negative numbers in my work, for example - working out how much is between -7 and +8.</i>
KS 2 Y6	Solve number and practical problems that involve large numbers, rounding and negative numbers.	<i>I can solve number and practical problems that involve large numbers, rounding and negative numbers.</i>
KS3	Understand and use place value for decimals, measures and integers of any size.	<i>I understand and use place value for decimals, measures and integers of any size.</i>
KS3	Order positive and negative integers, decimals and fractions; use the number line as a model for ordering of the real numbers; use the symbols equals, not equals, less than, greater than, less than or equal, greater than or equals.	<i>I can order positive and negative integers, decimals and fractions accurately and know how to use the symbols equals, not equals, less than, greater than, less than or equal, greater than or equals when ordering.</i>
KS3	Use the concepts and vocabulary of prime numbers, factors (or divisors), multiples, common factors, common multiples, highest common factor, lowest common multiple, prime factorisation, including using product notation and the unique factorisation property.	
KS3	Use conventional notation for the priority of operations, including brackets, powers, roots and reciprocals.	
KS3	Use integer powers and associated real roots (square, cube and higher), recognise powers of 2, 3, 4, 5 and distinguish between exact representations of roots and their decimal approximations.	
KS3	Interpret and compare numbers in standard form $A \times 10^n$ where $A$ greater than or equal to 1 less and $A$ is less than 10, where $n$ is a positive or negative integer or zero.	
KS3	Round numbers and measures to an appropriate degree of accuracy [for example, to a number of decimal places or significant figures].	
KS3	Use approximation through rounding to estimate answers and calculate possible resulting errors expressed using inequality notation $a$ less than $x$ less than or equal to $b$ .	
KS3	Use a calculator and other technologies to calculate results accurately and then interpret them appropriately.	
KS3	Appreciate the infinite nature of the sets of integers, real and rational numbers.	