End of Year 4 Expectations for Maths

*All children should use **all** of the criteria below in their maths to be at the expected standard for a Year 4 child.*

Year 4	Maths Expectations
Counting	count in multiples of 6, 7, 9, 25 and 1000 find 1000 more or less than a given number count backwards through zero to include negative numbers
Place Value	recognise the place value of each digit in a four-digit number order and compare numbers beyond 1000 round any number to the nearest 10, 100 or 1000
Representing Number	identify, represent and estimate numbers using different representations 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
Written (+/-)	add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
Problems (+/-)	estimate and use inverse operations to check answers to a calculation solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why
Number Facts (x/÷)	recall multiplication and division facts for multiplication tables up to 12 × 12
Mental (x/÷)	use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers recognise and use factor pairs and commutativity in mental calculations
Written (+/-)	multiply two-digit and three-digit numbers by a one-digit number using formal written layout

Year 4	Maths Expectations
Problems (x/÷)	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
Recognising Fractions	count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.
Comparing Fractions	recognise and show, using diagrams, families of common equivalent fractions
Finding Fractions of Quantities	solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number
Fraction Calculations	add and subtract fractions with the same denominator
Decimals as Fractional Amounts	recognise and write decimal equivalents of any number of tenths or hundredths recognise and write decimal equivalents to 1⁄4, 1⁄2 and 3⁄4 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 ones, tenths and hundredths
Ordering Decimals	round decimals with one decimal place to the nearest whole number compare numbers with the same number of decimal places up to two decimal places
Percentages	solve simple measure and money problems involving fractions and decimals to two decimal places
Fraction Problems	recognise and write decimal equivalents of any number of tenths or hundredths recognise and write decimal equivalents to 1⁄4, 1⁄2 and 3⁄4 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 ones, tenths and hundredths

Year 4	Maths Expectations
Measures	Convert between different units of measure estimate, compare and calculate different measures, including money in pounds and pence
Mensuration	measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres find the area of rectilinear shapes by counting squares
Time	Convert between different units of measure (e.g. Hours to minutes) read, write and convert time between analogue and digital 12- and 24-hour clocks solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days
Properties of 2-d shape	compare and classify geometric shapes, including quadrilaterals and triangles, based on properties and sizes identify lines of symmetry in 2-D shapes presented in different orientations complete a simple symmetric figure with respect to a specific line of symmetry.
Angles	identify acute and obtuse angles and compare and order angles up to two right angles by size
Position and Direction	describe positions on a 2-D grid as coordinates in the first quadrant describe movements between positions as translations of a given unit to the left/right and up/down plot specified points and draw sides to complete a given polygon
Interpreting data	interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs
Extracting info from data	solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs