

Mathematics overview: Year 4

Topics	Essential skills	Essential knowledge
Numbers and the number system	<ul style="list-style-type: none"> Round any number to the nearest 10, 100, 1000 and round a number with one decimal place to the nearest whole number Count backwards through zero Use columnar addition and subtraction with numbers up to four digits Multiply two- and three-digit numbers by a one-digit number using short multiplication Use known facts to multiply and divide mentally Write any number of tenths or hundredths as a decimal Find families of common equivalent fractions Add and subtract fractions with the same denominator Find areas of rectilinear shapes by counting squares Find perimeters of rectilinear shapes Use a line of symmetry to complete a symmetric shape or pattern Use coordinates in the first quadrant Interpret and construct bar charts for discrete data and time graphs for continuous data 	<ul style="list-style-type: none"> Know the place value headings of ones, tens, hundreds and thousands Know the Roman numerals I, V, X, L, C Know multiplication facts up to 12×12 Know division facts related to tables up to 12×12 Know decimals equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$ Know adjacent time facts involving years, months, weeks, days, hours, minutes and seconds Know 12- and 24-hour clock conversions Know the names and connected properties of triangles and quadrilaterals Know the definitions of acute and obtuse angles Know that area is measured in squares Know that perimeter is a measure of length
Counting and comparing		
Investigating properties of shapes		
Calculating: addition and subtraction		
Calculating: multiplication and division		
Exploring time and money		
Exploring fractions, decimals and percentages		
Measuring space		
Investigating angles		
Calculating fractions, decimals and percentages		
Calculating space		
Checking, approximating and estimating		
Mathematical movement		
Presentation of data		