

MathsMap RouteMap Year 4

Strand Tier	Number and Place Value, approximation and estimation/rounding	Addition, Subtraction, Multiplication & Division (Calculation)	Fractions, Decimals and Percentages	Measurement	Geometry – Properties of Shape & Position and Direction	Statistics
23 End of Year 4 Exp's	<ul style="list-style-type: none"> • Round any number to the nearest 10, 100 or 1000 • Count backwards through zero to include negative numbers • Solve number problems and practical problems involving both of the above 	<ul style="list-style-type: none"> • Multiply two-digit and three-digit numbers by a one-digit number using formal written layout • Solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by one digit, integer scaling problems • Solve correspondence problems such as n objects are connected to m objects 	<ul style="list-style-type: none"> • Find the effect of multiplying a one- or two-digit number by 10 and 100, identifying the value of the digits as thousands, hundreds, tens and ones • 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 • 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 • Solve simple measure and money problems involving fractions and decimals to two decimal places (e.g. $\frac{1}{2}$ of £2.36) 	<ul style="list-style-type: none"> • Measure and calculate the perimeter of a rectilinear figure/shape (including squares) in cm and m • Find the area of rectilinear shapes by counting squares • Calculate different measures, including money in pounds and pence 	<ul style="list-style-type: none"> • Describe positions on a 2D grid as coordinates in the first quadrant • Plot specified points and draw sides to complete a given polygon 	<ul style="list-style-type: none"> • Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs
22	<ul style="list-style-type: none"> • Recognise the place value of each digit in a 4-digit number • Read Roman numerals to 100 (I to C) and know that over time, the numeral system has changed to include the concept of zero and place value 	<ul style="list-style-type: none"> • Recall multiplication and division facts for 6 times table • Recall multiplication and division facts for 7 times table • Recall multiplication and division facts for 9 times table • Recall multiplication and division facts for 11 times table • Recall multiplication and division facts for 12 times table • 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 	<ul style="list-style-type: none"> • Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$ • Recognise and write decimal equivalents of any number of tenths or hundredths • 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 	<ul style="list-style-type: none"> • Read, write and convert time between analogue and digital 24-hour clocks • Solve problems involving converting from: <ul style="list-style-type: none"> ➢ hours to minutes; ➢ minutes to seconds; ➢ years to months; ➢ weeks to days • Convert between different units of measurement (e.g. km to m; hour to minute) 	<ul style="list-style-type: none"> • Identify acute and obtuse angles and compare and order angles up to two right angles by size • Describe movements between positions as translations of a given unit to the left/right and up/down 	<ul style="list-style-type: none"> • Interpret continuous data using appropriate graphical methods, including bar charts and time graphs • Present continuous data using appropriate graphical methods, including bar charts and time graphs
21	<ul style="list-style-type: none"> • Count in multiples of 6 • Count in multiples of 7 • Count in multiples of 9 • Count in multiples of 25 and 1000 • Order and compare numbers beyond 1000 • Find 1000 more or less than a given number 	<ul style="list-style-type: none"> • Add and subtract numbers with up to four digits using the formal written methods of columnar addition and subtraction where appropriate • Estimate and use inverse operations to check answers to a calculation • Solve addition and subtraction two-step problems in contexts, deciding which operation and methods to use and why 	<ul style="list-style-type: none"> • Count up and down in hundredths • Recognise that hundredths arise when dividing an object by a hundred and dividing tenths by 10 • Recognise and show, using diagrams, families of common equivalent fractions. (halves, thirds, quarters, fifths, eighths, tenths) • Add and subtract fractions with the same denominator 	<ul style="list-style-type: none"> • Compare different measures, including money in pounds and pence • Estimate different measures, including money in pounds and pence 	<ul style="list-style-type: none"> • Compare and classify geometric shapes, including quadrilaterals and triangles based on their properties and sizes • Identify lines of symmetry in 2D shapes presented in different orientations • Complete a simple symmetric figure with respect to a specific line of symmetry 	<ul style="list-style-type: none"> • Interpret discrete data using appropriate graphical methods, including bar charts and time graphs • Present discrete data using appropriate graphical methods, including bar charts and time graphs