Year 4 Maths Curriculum Overview

T1	Place Value	Place Value	Place Value	Mental Addition and Subtraction	Addition and subtraction	Addition and subtraction	Mental Multiplication and division	Mental multiplication and division
Y4	• *Revise 3 digit numbers through contexts* • Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) • Identify, represent and estimate numbers using different representations	• Order and compare numbers beyond 1000 • Estimate, compare different measures, including money in pounds and pence • Round any number to the nearest 10, 100 or 1000 • Rounding within measure as above	• Find 1000 more or less than a given number • Find multiples of 100 more or less than a given number • Find 1000 more/less range of measures • Find 25 more/less than any given number and in contexts	• Find 1000 more or less than a given number Add and subtract numbers mentally, including: • A four-digit number and ones • A four-digit number and tens • A four-digit number and hundreds • A four- digit number and thousands	• Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate • Estimate and use inverse operations to check answers to a calculation	• Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate • Estimate and use inverse operations to check answers to a calculation • Calculate different measures, including money in pounds and pence	• Revise counting in 2,3,4,5,6, 8,9 and 10 from any number forwards and backwards • Count forwards and backwards in multiples of these e.g 30s, 300s etc • Patterns and sequences • Recall 2,3,4,5,6,8,9,10x tables and division facts • Use known facts to solve problems outside of 12 x 4, 12x9,12 x6	• Count in multiples of 7,11 • Count in multiples of 70s, 90s, 700s, 900s • Link x 7 to days of week • 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

T2	X and division	Geometry	Fractions	Fractions	Time	4 rules through Statistics	Assess and Review
Y4	• Revise multiplying 3 single digit numbers • Multiply 1 digit by 2 digit numbers (range of methods moving to formal method) • Multiplication of 1 x 2 digit in context of money, other measures. • Rules of commutativity of 1 x 2 digit numbers • Estimation and checking of answers • Empty box problems ? x 24 = 48	• Identify acute and obtuse angles and compare and order angles up to two right angles by size • Identify angles within triangles and quadrilaterals	• Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. • Compare and order unit and fractions within context and without • Revise y3 equivalent fractions see above	• Add and subtract fractions with the same denominator • Add and subtract equivalent fractions e.g. 2/4 + ½ = • Fraction families such as ¼ + 2/4 = ¾ so ¾- ½ = 2/4 • All possibilities if my answer is 4/5 what could my calculations be	• 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.	• Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.	Gaps analysis for term 2 and review

T3	Place Value	Addition and Subtraction through Perimeter and length	Multiplication through area if mixed	Division	Division	Fractions
Y4	• Count backwards through zero to include negative numbers • Round any number to the nearest 10, 100 or 1000	• Convert between different units of measure [for example, kilometre to metre; hour to minute] • Measure and calculate the perimeter of a rectilinear figure	• Find the area of rectilinear shapes by counting squares	• Revise use of known facts for division • Revise 2 digit ÷ 1	• Estimate and use inverse operations to check answers to a calculation	• Recognise and show, using diagrams, families of common equivalent fractions • Recognise and write decimal equivalents of any number of tenths or hundredth

	• 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 • 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.	(including squares) in centimetres and metres • Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate • Estimate and use inverse operations to check answers to a calculation	• Introduce area with arrays • Introduce simple formula for rectangles for area. • Investigate area v perimeter • Link to factor pairs • Scaling up and down problems • 2 digit x 1 digit and introduce 1 x 3 digit using arrays	• Introduce short division 3 digit by 1 digit without remainder • Use of factor pairs for checking • Estimation	• Problem solving with mixed measures for division problems	• Recognise and write decimal equivalents to ½,1/4,3/4

T4	Geometry	Geometry	Fractions and decimals	Fractions and Decimals	Multiplication	Assess and Review
Y4	• Compare and classify geometric shapes, including quadrilaterals and triangles**,** based on their properties and sizes • Revise angles • 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.	• 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.	• Revise equivalent fractions in context of measures • Revise adding and subtracting through problems such as 5/6 of 60 + 2/8 of 56 = • Problem solve comparing problems would you rather have 3/8 of 80 or 2/5 of 50	• 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 • Include fractions of shapes, fractions linked to measures • Solve simple measure problems involving fractions and decimals to two decimal places.	• Revisit 1 x 3 digit multiplication • Problem solving with 1 x 2 digit and 1 x 3 digit • Checking answers by division	Gaps analysis and review

T5	Statistics	Time	Addition and Subtraction	Multiplication and Division	Mass/Volume and Capacity
Y 4	• Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. • Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.	• 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.	• Add and subtract numbers with up to 4 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 operations and methods to use and why.	• Recognise and use factor pairs and commutativity in mental calculations • Multiply two-digit and three-digit numbers by a one-digit number using formal written layout • Division of a 3 digit number by 1 digit (include remainders) • Know all timetables to 12 x 12 • Division facts for up to 12 x 12	• Convert between different units of measure [for example, kilometre to metre; hour to minute] • Read scales – link to place value • Read decimal scales • Estimate, compare and calculate different measures through problems • Round mass and volume • Solve simple measure problems involving fractions and decimals to two decimal places.

T6	Place Value	Calculation & Measures	Calculation & Measures	Fractions	Geometry	Transition x 3 weeks
Y4	Problem solving with place value and number properties	Problem solving with 4 rules applied to measures and missing boxes, known facts	Problem solving with 4 rules applied to measures and missing boxes, known facts	Problem solving with fractions,	Problem solving geometry	Y4 non negotiables for Y5, skill and application
Y5	Problem solving with place value and number properties	Problem solving with 4 rules applied to measures and missing boxes, known facts	Problem solving with 4 rules applied to measures and missing boxes, known facts	Problem solving with fractions,	Problem solving geometry	Y5 non negotiables for Y6, skill and application