



### Year 4- Maths Objectives for Coverage

Place Value: Counting	Count in multiples of 6,7,9,25 and 1000
	Count backwards through zero to include negative numbers
Place Value: Represent	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
Place Value: Use and compare	Find 1000 more or less than a given number
	Recognise the place value of each digit in a four-digit number (Th H T O)
	Order and compare numbers beyond 1000
Place Value: Problems and Rounding	Round any number to the nearest 10, 100 or 1000
	Solve number problems that involve all of the above and with increasingly large positive numbers
Addition and Subtraction: Recall, Represent, Use	Estimate and use inverse operations to check answers to a calculation
Addition and Subtraction: Calculation	Add and subtract numbers with up to 4 digits using the formal written methods of column addition and subtraction where appropriate
Addition and Subtraction: Solve Problems	Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why
Multiplication and Division: Recall, Represent, Use	Recall multiplication and division facts for tables up to 12x12
	Use place value, known and derived facts to multiply and divide mentally, including <ul style="list-style-type: none"><li>• Multiplying by 0 and 1</li><li>• Dividing by 1</li><li>• Multiplying together three numbers</li></ul>
	Recognise and use factor pairs and commutativity (2 numbers added or multiplied in either order) in mental calculations
Multiplication and Division: Calculations	Multiply two-digit and three-digit numbers by a one-digit number using formal written layout
Multiplication and Division: Solve Problems	Solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by one digit, integer scaling and harder correspondence problems such as 'n' objects are connected to 'm' objects
Fractions: Recognise and Write	Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten
Fractions: Compare	Recognise and show, using diagrams, families of common equivalent fractions
Fractions: Calculations	Add and subtract fractions with the same denominator
Fractions: Solve Problems	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
Decimals: Recognise and Write	Recognise and write decimal equivalents of any number of tenths or hundredths
	Recognise and write decimal equivalents to $\frac{1}{4}$ , $\frac{1}{2}$ , $\frac{3}{4}$
Decimals: Compare	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
Decimals: Calculations and Problems	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
Fractions, Decimals and Percentages	Solve simple measure and money problems involving fractions and decimals to two decimal places
Measurement: Using Measures	Convert between different units of measure (e.g. kilometre to metre/ hour to minutes)
	Estimate, compare and calculate different measures
Measurement: Money	Estimate, compare and calculate different measures, including money in pounds and pence
Measurement: Time	Read, write and convert time between analogue and digital 12-hour and 24-hour clocks
	Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days
Measurement: Perimeter, Area and Volume	Measure and calculate the perimeter of a rectilinear figure (including squares) in cm and m
	Find the area and volume of rectilinear shapes by counting squares

Geometry: 2-D Shapes	Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes
	Identify lines of symmetry in 2-D shapes presented in different orientations
Geometry: Angles and Lines	Identify acute and obtuse angles and compare and order angles up to two right angles by size
	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
Geometry: Position and Direction	Describe positions on a 2-D grid as co-ordinates 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
Statistics: Present and Interpret	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs
Statistics: Solve problems	Solve comparisons, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs