MATHS CURRICULUM Y4

	AUTUMN	SPRING	SUMMER
Y4	**NUMBER: Place Value** • *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* • *Count in multiples of 6, 7, 9, 25 and 1000* • *Count backwards through zero to include negative numbers I can find 1000 more or less than a given number* • *Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, ones) Order and compare numbers beyond 1000* • *Identify, represent and estimate numbers using different representations* • *Round any number to the nearest 10, 100 or 1000* • *Solve number and practical problems that involve all of the above with increasingly large positive numbers* **NUMBER: Addition and Subtraction** • *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 calculation problems involving two-step addition and subtraction in context, deciding which operation to use and why* **MEASUREMENT: Area** • *Find the area of rectilinear shapes by counting squares* • *Convert between different units of measure (for example, kilometre to metre) I can measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres* **NUMBER: Multiplication and Division 1** • *Recall multiplication and division facts for multiplication tables up to 12 × 12* • *Count in multiples of 6, 7, 9, 25 and 1000* • *Count backwards through zero to include negative numbers* • *Recognise factor pairs and commutativity in mental calculations* • *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* • *Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten*	**NUMBER: Multiplication and Division B** • *Recall multiplication and division facts for multiplication tables up to 12 × 12* • *Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten* • *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* • *Solve problems involving multiplying and adding, including integer scaling and harder correspondence problems such as n objects are connected to m objects* • *Recognise factor pairs and commutativity in mental calculations* • *Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.* **MEASUREMENT: Length and Perimeter** • *Estimate, compare and calculate different measures* • *Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres* • *Find the area of rectilinear shapes by counting squares* **NUMBER: Fractions** • *Recognise and show, using diagrams, families of common equivalent fractions* • *Solve problems involving increasingly harder fractions to calculate and divide quantities, including non-unit fractions where the answer is a whole number* • *Add and subtract fractions with the same denominator* • *solve simple measure and money problems involving fractions and decimals to two decimal places* **NUMBER: Decimals A** • *Recognise and write decimal equivalents of any number of tenths or hundredths and 1/4; 1/2; ¾* • *Solve simple measure and money problems involving fractions and decimals to two decimal places* • *Compare numbers with the same number of decimal places up to two decimal places* • *round decimals with one decimal place to the nearest whole number*	**NUMBER: Decimals B** • *Compare numbers with the same number of decimal places up to two decimal places* • *round decimals with one decimal place to the nearest whole number* • *Recognise and write decimal equivalents of any number of tenths or hundredths and 1/4; 1/2; ¾* • *Solve simple measure and money problems involving fractions and decimals to two decimal places* **MEASUREMENT: Money** • *Estimate, calculate and compare different measures, including money in pounds and pence* **MEASUREMENT: Time** • *Read, write and convert time between analogue and digital 12- and 24-hour clocks I can convert between different units of measure (for example hour to minute)* • *Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days I can estimate, compare and calculate different measures* **GEOMETRY: Property of Shape** • *Identify acute and obtuse angles and compare and order angles up to two right angles by size* • *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* • *Complete a simple symmetric figure with respect to a specific line of symmetry* **STATISTICS** • *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* **GEOMETRY: Position and Direction** • *Describe positions on a 2-D grid as coordinates in the first quadrant I can plot specified points and draw sides to complete a given polygon* • *Describe movement between positions as translations of a given unit to the left/right and up/down*