In Minet Junior School we use the content overviews from White Rose Maths Hub to base our long term plans. To suit our community and reflect our children, we have edited the White Rose Hub schemes to include progression targets from NCTEM and in addition we use resources and text books from Power Maths.

Objectives in red show targets that are taken from the NCTEM progression maps. Words underlined are mathematical key vocabulary that may be new to children or that they need to learn the meaning of.

Minet Junior School Long term planning Year 4

AUTUMN		
Number : Place Value	Week 1 Week 2 Week 3 Week 4	• Identify, represent and estimate numbers using different representations. 4NPV-3 • Recognise the place value of each digit in a four digit number (thousands, hundreds, tens and ones) 4NPV-2 • Count in multiplies of 1000 • Find 1000 more or less than a given number. • Order and compare numbers beyond 1000. • Count backwards through zero to include negative numbers. • Round any number to the nearest 10, 100 or 1000. • 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. • Solve number and practical problems that involve all of the above and with increasingly large positive numbers.
Addition and subtraction	Week 5 Week 6 Week 7	• 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.
Measurement: Area	Week 8	• Find the area of rectilinear shapes by counting squares.
Calculation: multiplication and division	Week 9 Week 10 Week 11	• Recall multiplication and division facts for multiplication tables up to 12 × 12 • Recognise and use factor pairs and commutativity in mental calculations • Use place value, known and derived facts to multiply and divide by 0 and 1 ; multiplying together three numbers.

		• Count in multiples of 6, 7, 9, 25 and 1000

SPRING		
Multiplication and Division	Week 1 Week 2 Week 3	• Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects. • Multiply two digit and three digit numbers by a one digit number using formal written layout. • Recall multiplication and division facts for multiplication tables up to 12 × 12 • Recognise and use factor pairs and commutativity in mental calculations
Length and Perimeter	Week 4 Week 5	• Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres • Convert between different units of measure [for example, kilometre to metre]
Fractions	Week 6 Week 7 Week 8	• Add and subtract fractions with the same denominator 4F-3 • Understand and convert mixed numbers to improper fractions and vice versa. 4F-2 • Recognise and show, using diagrams, families of common equivalent fractions. • 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	Week 9 Week 10	• Recognise and write decimal equivalents of any number of tenths or hundredths.

	Week 11	• Compare numbers with the same number of decimal places up to two decimal places. • Recognise and write decimal equivalents to 1/4, 1/2 and $\frac{3}{4}$ • Find the effect of multiplying or dividing a one or two digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths 4MD-1 • Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.

SUMMER		
Decimals	Week 1 Week 2 Week 3	• Find the effect of multiplying or dividing a one or two digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths 4MD-1 • 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. • Solve simple measure and money problems involving fractions and decimals to two decimal places.
Measurement: money	Week 4	• Estimate, compare and calculate different measures, including money in pounds and pence. • Solve simple measure and money problems involving fractions and decimals to two decimal places.
Time	Week 5	• Convert between different units of measure [for example, kilometre to metre; hour to minute] • 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.
Geometry: properties of shape	Week 6 Week 7 Week 8	• 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. 4G-2 • Identify lines of symmetry in 2-D shapes presented in different orientations. 4G-3 • Complete a simple symmetric figure with respect to a specific line of symmetry.
Statistics	Week 9 Week 10	• 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	Week 11	• Describe positions on a 2-D grid as coordinates in the first quadrant. 4G-1 • Plot specified points and draw sides to complete a given polygon. • Describe movements between positions as translations of a given unit to the left/ right and up/ down.

Minet Junior School Long term planning Year 4

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number Place value				Number Addition and subtraction			Measurement Area	Number Multiplication and division A			Consolidation
Spring	Number Multiplication and division B				Measurement Length and perimeter		Number Fractions			Number Decimals A		
Summer	Number Decimals B			Measurement Money		Measurement Time	Consolidation	Geometry Shape		Statistics	Geometry Position and direction	

*BASED ON CONTENT OVERVIEW