



Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
NC Topics/units Covered	<p>Number – place value Number – addition and subtraction</p>	<p>Number – addition and subtraction Measurement – length and perimeter Number – multiplication and division</p>	<p>Number – multiplication and division Measurement – area Number – fractions</p>	<p>Number – fractions Number – decimals</p>	<p>Number – decimals Measurement – money</p>	<p>Measurement – Time Statistics Geometry – properties of shape Geometry – position and direction</p>
Ongoing	<p>Add/subtract 1,000 to/from a number (up to 9,999) Add/subtract multiples of 10, 100 and 1,000 to a number (up to 9,999) Add/subtract numbers up to 4 digits using formal method of column addition Add/subtract with decimals (up to tenths and hundredths) Multiply 2 and 3 digit numbers by a 1-digit number using a formal written method Multiply a whole number by 100 Use known multiplication facts to create associated division facts Divide one or two digit numbers by 100 Add and Subtract fractions where the answer may be an improper fraction Find fractions of quantities using known multiplication facts</p>					
NC	<p><u>Number – place value</u> Count in multiples of 6, 7, 9, 25 and 1000. Find 1000 more or less than a given number. Recognise the place value of each digit in a four digit number (thousands, hundreds, tens and 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</p>	<p><u>Number – addition and subtraction</u> <i>As previous half term.</i> <u>Measurement – length and perimeter</u> 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] <u>Number – multiplication and division</u></p>	<p><u>Number – multiplication and division</u> Recall and use multiplication and division facts for multiplication tables up to 12×12. 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.</p>	<p><u>Number – fractions</u> <i>As previous half term</i> <u>Number – decimals</u> Recognise and write decimal equivalents of any number of tenths or hundredths. Find the effect of 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 Solve simple measure and money problems involving fractions and decimals to two decimal places.</p>	<p><u>Number – decimals</u> 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 to $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$ Find the effect of 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</p>	<p><u>Measurement – time</u> 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. <u>Statistics</u> Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.</p>

	<p>Solve number and practical problems that involve all of the above and with increasingly large positive numbers. Count backwards through zero to include negative numbers.</p> <p><u>Number – addition and subtraction</u> 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.</p>	<p>Recall and use multiplication and division facts for multiplication tables up to 12×12. Count in multiples of 6, 7, 9, 25 and 1000. 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 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.</p>	<p>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 and harder correspondence problems such as n objects are connected to m objects.</p> <p><u>Measurement – area</u> Find the area of rectilinear shapes by counting squares.</p> <p><u>Number – fractions</u> Recognise and show, using diagrams, families of common equivalent fractions. Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. 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.</p>	<p>Convert between different units of measure [for example, kilometre to metre]</p>	<p><u>Measurement – money</u> 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.</p>	<p>Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</p> <p><u>Geometry – properties of shape</u> 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.</p> <p><u>Geometry – position and direction</u> Describe positions on a 2-D grid as coordinates in the first quadrant. Plot specified points and draw sides to complete a given polygon. Describe movements between positions as translations of a given</p>
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			Add and subtract fractions with the same denominator.			unit to the left/ right and up/ down.
White Rose Units	Autumn Blocks 1 and 2	Autumn Blocks 2, 3 and 4	Spring Blocks 1, 2 and 3	Spring Blocks 3 and 4	Summer Blocks 1 and 2	Summer Blocks 3, 4, 5 and 6
Resources/ equipment	100 squares, magnetic dienes, place value grids	Objects for grouping	Fraction walls, rulers	Fraction walls	Fraction walls, coins	Clocks, shapes
General resources	Number squares, dienes apparatus, number lines, number fans, bead strings, counters, dice (large and small),					