

<b>Autumn 1</b>	
Number - Number and place value	<ul style="list-style-type: none"> <li>• Identify the value of each digit in a four-digit number</li> <li>• Use the value of the digits to compare and order numbers</li> <li>• Count on or back in thousands</li> <li>• Investigation: <a href="https://nrich.maths.org/6342">https://nrich.maths.org/6342</a> Four Digit Targets</li> </ul>
Number - Addition and subtraction	<ul style="list-style-type: none"> <li>• Choose an appropriate mental method</li> <li>• Recognise the operation needed to answer a word problem</li> <li>• Write the calculation necessary to answer the problem</li> <li>• Write the correct answer to the problem</li> <li>• Investigation: <a href="https://nrich.maths.org/91">https://nrich.maths.org/91</a> Maze</li> </ul>
Geometry - Properties of shape	<ul style="list-style-type: none"> <li>• Identify horizontal, vertical and diagonal lines of symmetry in polygons</li> <li>• Identify shapes with more than 1 line of symmetry</li> <li>• Reflect shapes in 1 and 2 lines of symmetry in different orientations</li> <li>• Reflect shapes in vertical lines of symmetry to make a repeating pattern</li> <li>• Investigation: <a href="https://nrich.maths.org/9692">https://nrich.maths.org/9692</a> Necklaces</li> </ul>
Number - Multiplication and division, including Number and place value	<ul style="list-style-type: none"> <li>• Count in multiples of 6 and 9</li> <li>• Recall the multiplication and division facts for the 6 multiplication table</li> <li>• Recall the multiplication and division facts for the 9 multiplication table</li> <li>• Understand that multiplication can be done in any order</li> <li>• Times tables round robin</li> </ul>
Number - Fractions	<ul style="list-style-type: none"> <li>• Find a unitary amount of a set of objects</li> <li>• Recognise a unit fraction as one item in a set of objects, e.g. <math>1/10</math></li> <li>• Recognise a non-unit fraction as more than one item in a set of objects, e.g. <math>3/10</math></li> <li>• Add fractions with the same denominator that total one whole</li> <li>• <a href="https://nrich.maths.org/7392/solution">https://nrich.maths.org/7392/solution</a> Bryony's Triangle /Peaches today, peaches tomorrow</li> </ul>
Geometry - Position and direction	<ul style="list-style-type: none"> <li>• Understand that the term "coordinates" is applied to a pair of numbers that gives the exact position of the intersection of two lines in a grid of squares</li> <li>• Plot specific points on a coordinate grid in the first quadrant</li> <li>• Translate a 2-D shape a given number of units to the left/right and up/down on a coordinate grid in the first quadrant</li> <li>• Battleships!</li> </ul>

<b>Autumn 2</b>	
Number – Mental Addition and subtraction	<ul style="list-style-type: none"> <li>• Estimate answers to a calculation</li> </ul> Add mentally counting on in hundreds, tens and ones depending on the calculation Subtract mentally Make jottings to support mental calculations <ul style="list-style-type: none"> <li>• Solve word problems and reason mathematically</li> </ul>
Number – Formal addition and subtraction	<ul style="list-style-type: none"> <li>• Use the formal written method of columnar addition</li> </ul> Use the formal written method of columnar subtraction Solve word problems Reason mathematically Investigation.
Number - Decimals	<ul style="list-style-type: none"> <li>• Recognise the link between fractions and decimal fractions</li> <li>• Understand decimals with one decimal place</li> <li>• Compare and order decimals with one decimal place</li> <li>• Round decimals with one decimal place to the nearest whole number</li> </ul>
Measurement (mass)	<ul style="list-style-type: none"> <li>• Use decimal notation to tenths to record mass in kilograms</li> <li>• Convert from larger to smaller standard units of mass using multiplication</li> <li>• Round numbers on scales to the nearest kilogram and to the nearest 100 g</li> </ul>
Number - Multiplication and division	<ul style="list-style-type: none"> <li>• Recall squares of numbers to <math>12 \times 12</math></li> <li>• Recognise multiples of 7, 11 and 12</li> <li>• Recall the multiplication and division facts for the 7 multiplication table</li> <li>• Recall the multiplication and division facts for the 11 multiplication table</li> <li>• Recall the multiplication and division facts for the 12 multiplication table</li> <li>• Use knowledge of multiplication tables up to <math>12 \times 12</math> to find factors</li> </ul>
Number - Multiplication and division	<ul style="list-style-type: none"> <li>• Make a reasonable estimate of the answer to a calculation</li> <li>• Partition two-digit numbers into tens and ones</li> <li>• Multiply a one-digit number by a multiple of 10</li> <li>• Use a written method to calculate multiplication of <math>TO \times O</math></li> </ul>

	<ul style="list-style-type: none"><li>• Multiply together three one-digit numbers</li></ul>
Measurement (time)	<ul style="list-style-type: none"><li>• Convert between different units of time</li><li>• Read, write and convert time between analogue and digital 12-hour clocks</li><li>• Read, write and convert time between analogue and digital 24-hour clocks</li></ul>

<b>Spring 1</b>	
Number - Addition and subtraction	<ul style="list-style-type: none"> <li>• Subtract mentally counting back in hundreds, tens and ones depending on the calculation</li> <li>• Make jottings to support mental calculations</li> <li>• Use the formal written method of columnar subtraction</li> <li>• Estimate and check answers to a calculation</li> <li>• Solve word problems and reason mathematically</li> </ul>
Number - Multiplication and division, including Number and place value	<ul style="list-style-type: none"> <li>• Recognise multiples of 25, 100 and 1000</li> <li>• Make a reasonable estimate for the answer to a calculation</li> <li>• Use partitioning to divide</li> <li>• Use chunking to divide</li> <li>• Solve word problems and reason mathematically</li> </ul>
Number - Fractions	<ul style="list-style-type: none"> <li>• Count on in hundredths from any hundredths fraction</li> <li>• Understand that hundredths arise when dividing an object by one hundred</li> <li>• Understand that hundredths arise when dividing tenths by ten</li> <li>• Use place value to find <math>\frac{1}{10}</math> or <math>\frac{1}{100}</math> of an amount, then multiply the answer by the numerator</li> <li>• Solve word problems and reason mathematically</li> </ul>
Geometry - Properties of shape	<ul style="list-style-type: none"> <li>• Identify, name and define acute and obtuse angles</li> <li>• Identify acute and obtuse angles in 2-D shapes</li> <li>• Compare and order angles up to two right angles by size</li> <li>• Identify a regular polygon as having the properties of all sides and all angles equal</li> </ul>
Measurement (time)	<ul style="list-style-type: none"> <li>• Convert between different units of time</li> <li>• Read, write and convert time between analogue and digital 12-hour clocks</li> <li>• Read, write and convert time between analogue and digital 24-hour clocks</li> </ul>

<b>Spring 2</b>	
Number – Addition and subtraction	<ul style="list-style-type: none"> <li>• Add mentally counting on in hundreds, tens and ones depending on the calculation</li> <li>• Subtract mentally counting back in hundreds, tens and ones depending on the calculation</li> <li>• Use the formal written method of columnar addition</li> <li>• Estimate and check answers to a calculation</li> </ul>
Number - Addition and subtraction	<ul style="list-style-type: none"> <li>• Use the formal written method of columnar subtraction</li> <li>• Estimate and check answers to a calculation</li> <li>• Solve word problems and reason mathematically</li> </ul>
Number - Multiplication and division	<ul style="list-style-type: none"> <li>• Make a reasonable estimate for the answer to a calculation</li> <li>• Partition three-digit numbers into hundreds, tens and ones</li> <li>• Multiply a one-digit number by a multiple of 10 and 100</li> <li>• Use a written method to calculate multiplication of HTO x O</li> <li>• Solve word problems and reason mathematically</li> </ul>
Measurement (length)	<ul style="list-style-type: none"> <li>• Convert between kilometres and metres</li> <li>• Convert between metres and centimetres</li> <li>• Convert between metres and millimetres</li> <li>• Convert between centimetres and millimetres</li> <li>• Use decimal notation to tenths to record lengths in kilometres and in metres</li> <li>• Use decimal notation to tenths to record length in metres and in centimetres</li> <li>• Round numbers on measuring tapes to the nearest 10 cm and 100 cm</li> </ul>
Statistics	<ul style="list-style-type: none"> <li>• Interpret and present data using pictograms</li> <li>• Interpret and present data using scaled bar charts</li> <li>• Interpret and present data using simple time graphs</li> </ul>

<b>Summer 1</b>	
Number - Number and place value	<ul style="list-style-type: none"> <li>• Identify the value of each digit in a four-digit number</li> <li>• Use the value of the digits to compare and order numbers</li> <li>• Round any number to the nearest 10, 100 or 1000</li> <li>• Count backwards through zero to include negative numbers</li> <li>• Understand Roman numerals and know the values of I, V, X, L and C and use these to work out numbers from 1 to 100 (I to C)</li> </ul>
Number – Decimals	<ul style="list-style-type: none"> <li>• Recognise the link between fractions and decimal fractions</li> <li>• Understand decimals with two decimal places</li> <li>• Compare and order decimals with two decimal places</li> <li>• Understand the effect of dividing a number by 10 or 100</li> </ul>
Measurement (perimeter and area)	<ul style="list-style-type: none"> <li>• Measure and calculate the perimeter of rectilinear figures in centimetres and metres</li> <li>• Use the rule <math>P = 2(a+b)</math> to calculate perimeter (P)</li> <li>• Find the area of rectilinear shapes by counting squares</li> <li>• Find the area of a shape in square centimetres by multiplying the number of squares in a row by the number of columns</li> </ul>
Number - Addition and subtraction, including Measurement (money)	<ul style="list-style-type: none"> <li>• Use the formal written method of columnar addition</li> <li>• Use the formal written method of columnar subtraction</li> <li>• Estimate and check answers to a calculation</li> <li>• Add amounts of money mentally and using the formal written method</li> <li>• Solve problems and reason mathematically</li> </ul>