

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<p><b><u>Number:</u></b>  <b>Number and Place Value:</b></p> <ul style="list-style-type: none"> <li>- Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit.</li> <li>- Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000.</li> <li>- Solve number problems and practical problems that involve all of the above.</li> </ul> <p><b><u>Number:</u></b>  <b>Addition and Subtraction:</b></p> <ul style="list-style-type: none"> <li>- Add and subtract numbers mentally with increasingly large numbers.</li> <li>- Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction).</li> </ul>	<p><b><u>Number:</u></b>  <b>Number and Place Value:</b></p> <ul style="list-style-type: none"> <li>- Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000.</li> <li>- Solve number problems and practical problems that involve all of the above.</li> </ul> <p><b><u>Number:</u></b>  <b>Multiplication and Division:</b></p> <ul style="list-style-type: none"> <li>- Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.</li> <li>- Know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers.</li> <li>- Establish whether a number up to 100 is prime and recall prime numbers up to 19.</li> <li>- Solve problems involving multiplication and division including using their knowledge of factors and multiples.</li> </ul>	<p><b><u>Number:</u></b>  <b>Number and Place Value:</b></p> <ul style="list-style-type: none"> <li>- Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.</li> <li>- Solve number problems and practical problems that involve all of the above.</li> <li>- Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.</li> </ul> <p><b><u>Number:</u></b>  <b>Multiplication and Division:</b></p> <ul style="list-style-type: none"> <li>- Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3).</li> <li>- Solve problems involving multiplication and division including using their knowledge of squares and cubes.</li> </ul>	<p><b><u>Number:</u></b>  <b>Addition and Subtraction:</b></p> <ul style="list-style-type: none"> <li>- Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)- Revisit.</li> </ul> <p><b><u>Number:</u></b>  <b>Multiplication and Division:</b></p> <ul style="list-style-type: none"> <li>- Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.</li> </ul> <p><b><u>Number:</u></b>  <b>Decimals:</b></p> <ul style="list-style-type: none"> <li>- Read and write decimal numbers as fractions [for example, 0.71 = 71/100]</li> <li>- Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.</li> <li>- Read, write, order and compare numbers with up to three decimal places.</li> </ul>	<p><b><u>Number:</u></b>  <b>Addition and Subtraction:</b></p> <ul style="list-style-type: none"> <li>- Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.</li> </ul> <p><b><u>Number:</u></b>  <b>Multiplication and Division:</b></p> <ul style="list-style-type: none"> <li>- Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context.</li> </ul> <p><b><u>Number:</u></b>  <b>Decimals:</b></p> <ul style="list-style-type: none"> <li>- Round decimals with two decimal places to the nearest whole number and to one decimal place</li> <li>- Solve problems involving number up to three decimal places.</li> </ul>	<p><b><u>Number:</u></b>  <b>Addition and Subtraction:</b></p> <ul style="list-style-type: none"> <li>- Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</li> </ul> <p><b><u>Number:</u></b>  <b>Multiplication and Division:</b></p> <ul style="list-style-type: none"> <li>- Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign.</li> <li>- Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.</li> </ul>

<p><b><u>Number:</u></b>  <b>Multiplication and Division:</b>          - Multiply and divide numbers mentally drawing upon known facts.          - Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers.</p> <p><b><u>Number</u></b>  <b>Fractions:</b>          - Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths          - Compare and order fractions whose denominators are all multiples of the same number.</p> <p><b><u>Measurement:</u></b>  <b>Perimeter and Area:</b>          - Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.          - Calculate and compare the area of rectangles (including</p>	<p><b><u>Number:</u></b>  <b>Fractions:</b>          - Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements <math>&gt; 1</math> as a mixed number [for example, <math>2/5 + 4/5 = 6/5 = 1</math> and <math>1/5</math>].          - Add and subtract fractions with the same denominator and denominators that are multiples of the same number.</p> <p><b><u>Measurement:</u></b>  <b>Money:</b>          - Use all four operations to solve problems involving measure [for example, <b>money</b>] using decimal notation.</p> <p><b><u>Statistics</u></b>          - Solve comparison, sum and difference problems using information presented in a line graph.</p>	<p><b><u>Number:</u></b>  <b>Fractions:</b>          - Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements <math>&gt; 1</math> as a mixed number [for example, <math>2/5 + 4/5 = 6/5 = 1</math> and <math>1/5</math>]- Revisit.          - Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.</p> <p><b><u>Measurement:</u></b>  <b>Converting Units:</b>          - Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).          - Solve problems involving converting between units of time.</p> <p><b><u>Geometry:</u></b>  <b>Properties of Shape:</b>          - Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles</p>	<p><b><u>Measurement:</u></b>  <b>Metric and Imperial Units:</b>          - Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.</p> <p><b><u>Geometry:</u></b>  <b>Position and Direction:</b>          - Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.</p>	<p><b><u>Measurement:</u></b>  <b>Volume/ Capacity:</b>          - Estimate volume [for example, using 1 cm<sup>3</sup> blocks to build cuboids (including cubes)] and capacity [for example, using water].</p> <p><b><u>Geometry:</u></b>  <b>Properties of Shape:</b>          - Use the properties of rectangles to deduce related facts and find missing lengths and angles          - Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.</p>	<p><b><u>Number:</u></b>  <b>Fractions (incl. decimals and percentages):</b>          - Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal          - Solve problems which require knowing percentage and decimal equivalents of <math>1/2</math>, <math>1/4</math>, <math>1/5</math>, <math>2/5</math>, <math>4/5</math> and those fractions with a denominator of a multiple of 10 or 25.</p> <p><b><u>Measurement:</u></b>          - Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.</p> <p><b><u>Statistics</u></b>          - Complete, read and interpret information in tables, including timetables.</p>
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<p>squares), and including using standard units, square centimetres (cm<sup>2</sup>) and square metres (m<sup>2</sup>) and estimate the area of irregular shapes.</p> <p><b><u>Geometry:</u></b>  <b>Properties of Shape:</b>          - Identify 3-D shapes, including cubes and other cuboids, from 2-D representations.</p>		<ul style="list-style-type: none"> <li>- Draw given angles, and measure them in degrees (o)</li> <li>- Identify: ♣ angles at a point and one whole turn (total 360o) ♣ angles at a point on a straight line and 2 1 a turn (total 180o) ♣ other multiples of 90o</li> </ul>			
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