

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<p><u>Number:</u> Number and Place Value:</p> <ul style="list-style-type: none"> - Read Roman numerals to 1000 (M) and recognise years written in Roman numerals. - Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit <ul style="list-style-type: none"> - Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000. - Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10,000 and 100,000 - Solve number problems and practical problems that involve all of the above. <p><u>Number:</u> Addition and Subtraction:</p> <ul style="list-style-type: none"> - Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction). 	<p><u>Number:</u> Multiplication and Division:</p> <ul style="list-style-type: none"> - Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. - Know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers. - Establish whether a number up to 100 is prime and recall prime numbers up to 19. - Solve problems involving multiplication and division including using their knowledge of factors and multiples. - Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3). - Solve problems involving multiplication and division including using their knowledge of squares and cubes. 	<p><u>Number:</u> Multiplication and Division:</p> <ul style="list-style-type: none"> - 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. - 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. - Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign. - Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates. 	<p><u>Number:</u> Decimals and Percentages:</p> <ul style="list-style-type: none"> - Read and write decimal numbers as fractions [for example, 0.71 = 71/100] - Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. - Read, write, order and compare numbers with up to three decimal places. - Round decimals with two decimal places to the nearest whole number and to one decimal place - 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 $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those 	<p><u>Geometry:</u> Properties of Shape:</p> <ul style="list-style-type: none"> - Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. - Draw given angles, and measure them in degrees (°). - Identify: <ul style="list-style-type: none"> - angles at a point and one whole turn (total 360°) - angles at a point on a straight line and 2 1 a turn (total 180°) - other multiples of 90°. - 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. - Identify 3-D shapes, including cubes and other cuboids, from 2-D representations. 	<p><u>Number:</u> Decimals:</p> <ul style="list-style-type: none"> - Solve problems involving number up to three decimal places. - Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000. <p><u>Number:</u> Number and Place Value:</p> <ul style="list-style-type: none"> - Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero. <p><u>Measurement:</u> Converting Units:</p> <ul style="list-style-type: none"> - Convert between different units of metric measure (for example, kilometre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre). - Understand and use approximate equivalences between metric units and

<p>- Add and subtract numbers mentally with increasingly large numbers.</p> <p>- Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.</p> <p>- Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</p>	<p>- Multiply and divide whole numbers by 10, 100 and 1000.</p> <p>- Multiply and divide numbers mentally drawing upon known facts.</p> <p style="text-align: center;"><u>Number</u> Fractions:</p> <p>- Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.</p> <p>- Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $2/5 + 4/5 = 6/5 = 1$ and $1/5$].</p> <p>- Compare and order fractions whose denominators are all multiples of the same number.</p> <p>- Add and subtract fractions with the same denominator and denominators that are multiples of the same number.</p>	<p style="text-align: center;"><u>Number:</u> Fractions:</p> <p>- Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.</p>	<p>fractions with a denominator of a multiple of 10 or 25.</p> <p style="text-align: center;"><u>Measurement:</u> Perimeter and Area:</p> <p>- Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.</p> <p>- Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes.</p> <p style="text-align: center;"><u>Statistics</u></p> <p>- Solve comparison, sum and difference problems using information presented in a line graph.</p> <p>- Complete, read and interpret information in tables, including timetables.</p>	<p style="text-align: center;"><u>Geometry:</u> Position and Direction:</p> <p>- 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>common imperial units such as inches, pounds and pints.</p> <p>- Solve problems involving converting between units of time.</p> <p>- Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.</p> <p style="text-align: center;"><u>Measurement:</u> Volume/ Capacity:</p> <p>- Estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water].</p>
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