

Measurement, Geometry & Statistics taught 1 session per week throughout the year

Week	AUTUMN TERM	SPRING TERM	SUMMER TERM
1	<p>Number - number and place value Determine the value of each digit</p> <p>Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000</p> <p>Measurement- Distinguish between regular and irregular polygons based on reasoning about equal sides and angles</p>	<p>Number - multiplication and division</p> <p>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>Recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³)</p> <p>Solve problems involving multiplication and division including their knowledge of factors, multiples, squares and cubes</p> <p>Measurement- Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.</p>	<p style="text-align: center;">Consolidation</p> <p>Addition, subtraction, multiplication and division - formal written methods</p> <p>Measurement- Convert between different units of measure (e.g. kilometre and metre; metre and centimetre; centimetre and millimetre; gram and kilogram; litre and millilitre)</p>
2	<p>Number - number and place value Read, write, order and compare numbers to at least 1 000 000...</p> <p>Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000</p> <p>Solve number problems and practical problems that involve all of the above</p> <p>Measurement- Identify 3-D shapes, including cubes and other cuboids, from 2-D representations</p>	<p>Number - multiplication and division</p> <p>Divide numbers up to 4 digits by a one-digit number using the efficient written method of short division and interpret remainders appropriately for the context</p> <p>Measurement- Calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes.</p>	<p style="text-align: center;">Number - fractions</p> <p>Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams</p> <p>Measurement- Convert between different units of measure (e.g. kilometre and metre; metre and centimetre; centimetre and millimetre; gram and kilogram; litre and millilitre)</p>
3	<p>Number - number and place value Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers through zero</p>	<p>Number - multiplication and division Solve problems involving multiplication and division</p> <p>Measurement- Calculate and compare the area of squares and rectangles including using standard units,</p>	<p style="text-align: center;">Number - fractions</p> <p>Solve problems involving fractions; reasoning</p>

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	<p>Read Roman numerals to 1000 (M) and recognise years written in Roman numerals</p> <p>Measurement-Identify 3-D shapes, including cubes and other cuboids, from 2-D representations</p>	<p>square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes.</p>	<p>Measurement-Understand and use approximate equivalences between metric and common imperial units such as inches, pounds and pints</p>
4	<p>Number - addition and subtraction Add and subtract numbers mentally with increasingly large numbers</p> <p>Add whole numbers with more than 4 digits, including using formal written methods (columnar addition)</p>	<p>Number - fractions Identify, name and write equivalent fractions of a given fraction, represented visually Compare and order fractions whose denominators are all multiples of the same number</p> <p>Geometry- Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. Other multiples of 90°</p>	<p>Number - percentages 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 hundred, and as a decimal</p> <p>Measurement-Solve problems involving converting between units of time</p>
5	<p>Number - addition and subtraction Subtract whole numbers with more than 4 digits, including using formal written methods (columnar subtraction)</p>	<p>Number - fractions Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number (e.g. $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$)</p> <p>Geometry- Identify: angles at a point and one whole turn (total 360°). Use the properties of rectangles to deduce related facts and find missing lengths and angles.</p>	<p>Number - percentages 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 fractions with a denominator of a multiple of 10 or 25.</p> <p>Statistics- Complete, read and interpret information in tables, including timetables</p>
6	<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>Number - fractions Add and subtract fractions with the same denominator and denominators that are multiples of the same number</p> <p>Geometry- Draw given angles, and measure them in degrees (°)</p>	<p>Number - percentages Problem solving and reasoning</p> <p>Measurement-Estimate volume (e.g. using 1 cm³ blocks to build cubes and cuboids) and capacity (e.g. using water)</p>

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7	<p>Statistics-solve comparison, sum and difference problems using information presented in line graphs</p>	<p style="text-align: center;">Number - fractions</p> <p style="text-align: center;">Add and subtract fractions with the same denominator and denominators that are multiples of the same number</p> <p>Geometry- Angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°)</p>	<p style="text-align: center;">Number - decimals</p> <p style="text-align: center;">Adding and subtracting decimals</p> <p>Measurement-Use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scaling</p>
8	<p style="text-align: center;">Number - multiplication and division</p> <p>Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers</p> <p>Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers</p> <p>Establish whether a number up to 100 is prime and recall prime numbers up to 19</p> <p>Statistics-solve comparison, sum and difference problems using information presented in line graphs</p>	<p style="text-align: center;">Number - decimals</p> <p>Read and write decimal numbers as fractions (e.g. $0.71 = \frac{71}{100}$)</p> <p>Geometry- Identify, describe and represent the position of a shape following a translation, using the appropriate language, and know that the shape has not changed</p>	<p style="text-align: center;">Number - decimals</p> <p style="text-align: center;">Multiplying and dividing decimal numbers</p>
9	<p style="text-align: center;">Number - multiplication and division</p> <p>Multiply and divide numbers mentally drawing upon known facts</p> <p>Statistics-solve comparison, sum and difference problems using information presented in line graph</p>	<p style="text-align: center;">Number - decimals</p> <p>Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents</p>	Assessment week

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10	<p>Number - multiplication and division</p> <p>Multiply whole numbers and those involving decimals by 10, 100 and 1000</p> <p>Divide whole numbers and those involving decimals by 10, 100 and 1000</p> <p>Statistics- Complete, read and interpret information in tables, including timetables</p>	<p>Number - decimals</p> <p>Round decimals with two decimal places to the nearest whole number and to one decimal place</p>	<p>Number - decimals</p> <p>Dividing decimal numbers</p> <p>Reasoning and problem solving</p>
11	<p>Assessment week</p>	<p>Assessment week</p>	<p>Number - decimals</p> <p>Solve two-step problems in contexts involving decimals, deciding which operations and methods to use and why</p>
12	<p>Number - multiplication and division</p> <p>Multiply numbers up to 4 digits by a one digit number using a formal written method</p> <p>Statistics- Complete, read and interpret information in tables, including timetables</p> <p>Statistics- Complete, read and interpret information in tables, including timetables</p>	<p>Number - decimals</p> <p>Read, write, order and compare numbers with up to three decimal places</p>	<p>Consolidation /Recap</p> <p>Reasoning and problem solving</p>