

Maths Overview 2023-2024

Year 5 Autumn Term 1

<u>Week 1</u>	<u>Week 2</u>	<u>Week 3</u>	<u>Week 4</u>	<u>Week 5</u>	<u>Week 6</u>	<u>Week 7</u>
Number- Number and Place Value I can read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.	Number- Number and Place Value I can count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000.	Statistics I can solve comparison, sum and difference problems using information presented in a line graph.	Number- Fractions (including Decimals and Percentages) I can read, write, order and compare numbers with up to 3 decimal places. I can solve problems involving numbers up to 3 decimal places.	Number- Addition and Subtraction I can add whole numbers with more than 4 digits, including using formal written methods (columnar addition). I can add and subtract numbers mentally with increasingly large numbers.	Number- Addition and Subtraction I can subtract whole numbers with more than 4 digits, including using formal written methods (columnar subtraction). I can add and subtract numbers mentally with increasingly large numbers.	Number- Addition and Subtraction I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.

Year 5 Autumn Term 2

<u>Week 1</u>	<u>Week 2</u>	<u>Week 3</u>	<u>Week 4</u>	<u>Week 5</u>	<u>Week 6</u>	<u>Week 7</u>	<u>Week 8</u>
<p>Number-Multiplication and Division</p> <p>I can identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers.</p> <p>I know and can use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.</p> <p>I can establish whether a number up to 100 is prime and recall prime numbers up to 19.</p>	<p>Number-Multiplication and Division</p> <p>I can recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3).</p> <p>Measurement</p> <p>I can estimate volume, for example, using 1 cm³ blocks to build cuboids (including cubes) and capacity, for example, using water.</p>	<p>Number-Multiplication and Division</p> <p>I can multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000.</p>	<p>Number-Multiplication and Division</p> <p>I can 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>I can multiply and divide numbers mentally, drawing upon known facts.</p> <p>I can solve problems involving multiplication, including using their knowledge of factors and multiples, squares and cubes.</p>	<p>Number-Multiplication and Division</p> <p>I can 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.</p> <p>I can multiply and divide numbers mentally, drawing upon known facts.</p> <p>I can solve problems involving division, including using their knowledge of factors and multiples, squares and cubes.</p>	<p>Number-Multiplication and Division</p> <p>I can solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equal's sign.</p>	<p>Geometry-Properties of Shapes</p> <p>I can use the properties of rectangles to deduce related facts and find missing lengths and angles.</p> <p>I can distinguish between regular and irregular polygons based on reasoning about equal sides and angles.</p>	<p>Geometry-Properties of Shapes</p> <p>I can identify 3-D shapes, including cubes and other cuboids, from 2-D representations.</p>

Year 5 Spring Term 1

<u>Week 1</u>	<u>Week 2</u>	<u>Week 3</u>	<u>Week 4</u>	<u>Week 5</u>	<u>Week 6</u>
<p>Geometry- Properties of Shapes</p> <p>I can know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles.</p> <p>angles at a point and 1 whole turn (total 360°); angles at a point on a straight line and half a turn (total 180°); other multiples of 90°.</p>	<p>Geometry- Properties of Shapes</p> <p>I can draw given angles, and measure them in degrees ($^\circ$).</p>	<p>Number- Number and Place Value</p> <p>I can interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0.</p>	<p>Number- Number and Place Value</p> <p>I can read Roman numerals to 1,000 (M) and recognise years written in Roman numerals.</p>	<p>Measurement</p> <p>I can measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.</p>	<p>Measurement</p> <p>I can calculate and compare the area of rectangles (including squares), including using standard units, square centimetres (cm^2) and square metres (m^2), and estimate the area of irregular shapes.</p>

Year 5 Spring Term 2

<u>Week 1</u>	<u>Week 2</u>	<u>Week 3</u>	<u>Week 4</u>	<u>Week 5</u>
<p>Number- Fractions (including Decimals and Percentages)</p> <p>I can identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.</p> <p>I can compare and order fractions whose denominators are all multiples of the same number.</p>	<p>Number- Fractions (including Decimals and Percentages)</p> <p>I can read and write decimal numbers as fractions [for example, $0.71 = 71/100$]</p> <p>I can recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.</p>	<p>Number- Fractions (including Decimals and Percentages)</p> <p>I can 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, $+ = 1$].</p>	<p>Number- Fractions (including Decimals and Percentages)</p> <p>I can add and subtract fractions with the same denominator, and denominators that are multiples of the same number.</p>	<p>Number- Fractions (including Decimals and Percentages)</p> <p>I can multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.</p> <p>Number- Multiplication and Division</p> <p>I can solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.</p>

Year 5 Summer Term 1

<u>Week 1</u>	<u>Week 2</u>	<u>Week 3</u>	<u>Week 4</u>	<u>Week 5</u>	<u>Week 6</u>
<p>Position and Direction</p> <p>I can 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>Number- Fractions (including Decimals and Percentages)</p> <p>I can recognise the percent symbol (%) and understand that percent relates to 'number of parts per 100', and write percentages as a fraction with denominator 100, and as a decimal fraction.</p>	<p>Number- Fractions (including Decimals and Percentages)</p> <p>I can 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>Measurement</p> <p>I can convert between different units of metric measure [for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre].</p> <p>I can estimate volume for example, using 1 cm³ blocks to build cuboids (including cubes) and capacity for example, using water.</p>	<p>Measurement</p> <p>I can understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.</p>	<p>Measurement</p> <p>I can use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.</p>

Year 5 Summer Term 2

<u>Week 1</u>	<u>Week 2</u>	<u>Week 3</u>	<u>Week 4</u>	<u>Week 5</u>	<u>Week 6</u>	<u>Week 7</u>
Number- Number and Place Value I can round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000.	Number- Fractions (including Decimals and Percentages) I can round decimals with 2 decimal places to the nearest whole number and to 1 decimal place.	Number- Addition and Subtraction I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. I can use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.	Measurement I can solve problems involving converting between units of time.	Statistics I can complete, read and interpret information in tables, including timetables.	Number- Number and Place Value I can solve number problems and practical problems that involve all areas of place value.	Number- Multiplication and Division I can solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.