

Number	Place Value	Addition and Subtraction	Multiplication and Division	Statistics
<p style="text-align: center;">YEAR 6</p> <p style="text-align: center;">Objectives to be covered during the Autumn Term</p>	<p>Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit.</p> <p>Identify the value of each digit to three decimal places.</p> <p>Multiply and divide by 10, 100 or 1000, where the answers are up to three decimal places.</p> <p>Investigate products of odd / even numbers.</p> <p>Round any whole number to a required degree of accuracy (10, 100, 1000)</p> <p>Use approximation before calculating</p> <p>Use known facts and place value to multiply and divide mentally.</p>	<p>Find pairs with sum of 100; multiples of 50 with sum 1000, decimals with sum of 0.1, 1, 10</p> <p>Add/subtract any pair of two-digit numbers including crossing 100;</p> <p>Derive sums and differences, e.g. 760 ± 280. Add/subtract a multiple of 10, 100, 1000 and adjust.</p> <p>Extend written methods to column + and -numbers involving decimals.</p> <p>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</p> <p>Mixed operation problem solving.</p>	<p>Identify and use appropriate operations (including combinations of operations) to solve word problems.</p> <p>Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication</p> <p>Use relationship between multiplication and division.</p> <p>Multiply mentally any two-digit number by a one-digit number.</p> <p>Divide numbers up to 4-digits by a two-digit whole number using the formal written method of short division.</p> <p>Mixed operation problem solving.</p> <p>Find easy methods for multiplying and dividing by 50.</p>	<p>Represent, extract and interpret data in a line graph (for example miles to kilometres).</p> <p>Recognise that intermediate points have meaning</p> <p>Calculate and interpret the mean as an average</p> <p>Interpret a simple pie chart using fractions or percentages</p> <p>Solve a problem by representing, extracting and interpreting data in frequency tables and bar charts with grouped discrete data.</p>

YEAR 6

Objectives to be covered during the Autumn Term

	Measurement	Geometry - Properties of Shapes	Geometry - Position, movement and scales	Fractions, Decimals and Percentages
	<p>Use, read and write standard metric units of length, km, m, cm, mm, including their abbreviations and relationships between them.</p> <p>Convert between units, such as m to km, cm or mm to m. This should include seconds and minutes as well.</p> <p>Solve problems involving the calculation and conversion of units of measure using decimal notation up to three decimal places where appropriate.</p> <p>Know mile and kilometre equivalents and approximate metric equivalents for pounds and ounces.</p> <p>Suggest suitable units and equipment to measure or estimate length.</p> <p>Record estimates and measurements from scales to a suitable degree of accuracy. Read scales.</p> <p>Use all four operations to solve measurement word problems including time.</p>	<p>Compare and classify geometric shapes based on their properties and sizes</p> <p>Find unknown angles in any triangles, quadrilaterals, and regular polygons</p> <p>Draw 2d shapes using given dimensions and angles.</p> <p>Recognise, describe and build simple 3d shapes including nets.</p>	<p>Read and plot co-ordinates in all four quadrants.</p> <p>Draw and translate simple shapes on the coordinate plain and reflect them in the axis.</p>	<p>Order fractions by converting to common denominator, and position them on a number line.</p> <p>Reduce fractions by cancelling.</p> <p>Change an improper fraction to a mixed number and vice versa.</p> <p>Use fractions as 'operators'; find fractions of numbers and quantities to include problem solving.</p> <p>Begin to convert fractions to decimal using division.</p> <p>Express simple fractions as percentages and find simple percentages of whole number quantities</p> <p>Use decimal notation for tenths and hundredths; extend to thousandths for measurements. Know what each digit represents.</p> <p>Give a decimal line between two others (e.g 3.4 and 3.5)</p> <p>Order a set of mixed numbers of measurements up to three decimal places.</p> <p>Mixed operation problem solving.</p>

Number	Properties of number			
<p style="text-align: center;"><u>YEAR 6</u> Objectives to be covered during the Autumn Term</p>	<ul style="list-style-type: none">• Identify common factors and common multiples.• Use tests of divisibility• Find prime factors and factorise numbers into prime factors			