

<b>Year 5 Key Objectives</b>	
<p><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 and backwards in steps of powers of 10 for any given number</li> <li>- Interpret negative numbers in context</li> <li>- Count forwards and backwards through zero</li> <li>- Round any number to the nearest 10, 100, 1000, 10 000, 100 000 up to 1 million</li> <li>- Solve number problems and practical problems</li> <li>- Use number in context including decimal numbers and fractions</li> <li>- Recognise and describe linear number sequences including decimals and fractions</li> <li>- Read Roman numerals to 1000 and recognise years written in Roman numerals</li> </ul>	<p><b>Addition and Subtraction</b></p> <ul style="list-style-type: none"> <li>- Add and subtract numbers with more than 4 digits using formal written column methods</li> <li>- Use rounding to check answers and determine levels of accuracy in the context of number problems</li> <li>- Solve multi-step problems, deciding which operations to use</li> <li>- Continued use of mental methods to add and subtract larger numbers e.g 12462-2300</li> </ul>
<p><b>Multiplication and Division</b></p> <ul style="list-style-type: none"> <li>- Identify multiples and factors including factor pairs and common factors</li> <li>- Identify prime numbers, prime factors and composite numbers</li> <li>- Identify whether a number up to 100 is prime and recall prime numbers up to 19</li> <li>- Multiply numbers up to 4-digits by one or two digits using formal written methods</li> <li>- Multiply and divide numbers mentally using known facts</li> <li>- Divide numbers up to 4-digits by one digit using formal written methods of short division and remainders</li> <li>- Multiply and divide whole numbers including decimals by 10,100 and 1000</li> <li>- Recognise and use square numbers and cube numbers and their notation</li> <li>- Solve problems involving multiplication and division including multiples, factors, squares and cubes</li> <li>- Solve problems involving multiplication, divide, addition and subtraction including use of the equal sign</li> <li>- Solve problems including scaling by simple fractions and simple rates</li> </ul>	<p><b>Geometry – position and direction</b></p> <ul style="list-style-type: none"> <li>- Identify, describe and represent the position of a shape following a reflection or translation</li> </ul> <p>Recognise 2-D grid and coordinates in the first quadrant</p> <p><b>Geometry – properties of shape</b></p> <ul style="list-style-type: none"> <li>- Identify 3-D shapes from 2-D representations</li> <li>- Know angles are measured in degrees – including acute, obtuse and reflex angles</li> <li>- Use conventional markings to show parallel lines and right angles</li> <li>- Draw given angles and measure them in degrees</li> <li>- Identify; angles at a point and one whole turn, angles at a point on a straight line and half a turn, other multiples of 90 degrees</li> <li>- Use angle sum facts to make deductions about missing angles</li> <li>- Use the properties of rectangles to find missing details</li> <li>- Distinguish between regular and irregular polygons</li> </ul>
<p><b>Statistics</b></p> <ul style="list-style-type: none"> <li>- Solve comparison, sum and difference problems using information presented in a line graph</li> <li>- Complete, read and interpret information in tables and timetables</li> <li>- Work on coordinates and scales to interpret time graphs</li> </ul>	<p><b>Fractions (including decimals and percentages)</b></p> <ul style="list-style-type: none"> <li>- Compare and order fractions where denominators are all multiples of the same number</li> <li>- Identify, name and write equivalent fractions of a given fraction including visual representations</li> <li>- Recognise mixed numbers and improper fractions. Convert from one form to another</li> <li>- Add and subtract fractions with same denominator / denominators that are multiples of the same number</li> </ul>

	<ul style="list-style-type: none"> <li>- Multiply proper fractions and mixed numbers by whole numbers</li> <li>- Read and write decimal numbers as fractions</li> <li>- Recognise and use thousandths in relation to tenths, hundredths and decimals</li> <li>- Mentally add and subtract tenths and one-digit whole numbers</li> <li>- Round decimals with 2 decimal places to whole number and one decimal place</li> <li>- Read, write, order and compare numbers up to three decimal places</li> <li>- Recognise percentages as part of 100 and write percentages as a fraction with denominator 100 and as a decimal.</li> <li>- Solve problems using knowledge of percentage and decimal equivalents of half, quarter, fifths and fractions with a denominator of a multiple of 10 or 25</li> <li>- Understand percentages, decimals and fractions as a way of expressing proportion</li> <li>-</li> </ul>
<p><b>Measurement</b></p> <ul style="list-style-type: none"> <li>- Convert between different units of metric measurement</li> <li>- Understand and use approximate equivalences between metric and common imperial units</li> <li>- Measure and calculate the perimeter of a rectilinear shapes in cm and m</li> <li>- Calculate and compare the area of rectangles using square centimetres and square metres and estimate the area of irregular shapes</li> <li>- Complete missing measures questions e.g. <math>4+2b=20</math></li> <li>- Estimate volume and capacity</li> <li>- Solve problems converting between units of time</li> <li>- Use all four operations to solve problems involving measure using decimal notation, conversions and scaling</li> </ul>	