

**Y5 Maths Overview Autumn Term.**

Week	Starter Ideas	Main focus of teaching and learning.	Outcomes
	<p>Place value in 4-digit numbers</p> <p>+/- 100 or 1000 to/from 4-digit numbers</p> <p>Count on/back in 10s from 3-digit numbers</p> <p>Add 3 single digit numbers spotting bonds to 10 and doubles</p> <p>Pairs to 100</p>	<p><b>Place value to 1,000,000.</b></p> <ul style="list-style-type: none"> <li>● To read, write, order and compare numbers at least to 1,000,000 and determine the value of each digit.</li> <li>● To count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000.</li> </ul>	
	<p>Count in <math>\frac{1}{4}</math>s and <math>\frac{1}{8}</math>s along a number line</p> <p>Pairs to 100</p> <p>Times tables</p> <p>Factors and multiples</p>	<p><b>Mental addition and subtraction.</b></p> <ul style="list-style-type: none"> <li>● To add and subtract whole numbers with more than 4 digits, including using efficient written methods (columnar addition and subtraction).</li> <li>● To add and subtract numbers mentally with increasingly large numbers.</li> <li>● To solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</li> </ul>	
	<p>Double numbers to 100</p> <p>Double and halve numbers to 100</p> <p>Divisibility by 2, 3, and 5</p> <p>Divisibility rules for 6, 4, 8</p> <p>Times tables</p>	<p><b>Factors of numbers and prime numbers .</b></p> <ul style="list-style-type: none"> <li>● To identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.</li> <li>● To multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.</li> <li>● To solve problems involving multiplication and division where larger numbers are used by decomposing them into factors.</li> <li>● To know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.</li> <li>● To establish whether a number up to 100 is prime and</li> </ul>	

		recall prime numbers up to 19.	
	<p>Multiply and divide by 10 and 100</p> <p>How much to next pound?</p> <p>Pairs to 100</p> <p>Double 2-digit numbers</p> <p>Change from £1</p>	<p><b>Using multiplication and division facts.</b></p> <ul style="list-style-type: none"> <li>● To multiply and divide numbers mentally drawing upon known facts.</li> <li>● To multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.</li> <li>● To solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.</li> </ul>	
	<p>Guess the angle</p> <p>Given two angles find the missing value.</p> <p>Identify the type of triangle given specific angles.</p>	<p><b>Angles.</b></p> <ul style="list-style-type: none"> <li>● To know angles are measured in degrees; estimate and compare acute, obtuse and reflex angles</li> <li>● To draw given angles, and measure them in degrees (o).</li> </ul> <p>To identify :</p> <ul style="list-style-type: none"> <li>● angles at a point and one whole turn (total 360 degrees)</li> <li>● angles at a point on a straight line and <math>\frac{1}{2}</math> a turn (total 180 degrees)</li> <li>● other multiples of 90 degrees.</li> </ul>	
	<p>How many m in a km? G in a kg? Ml in a litre? Etc</p> <p>Mixed word problems – to calculate mentally.</p>	<p><b>Length, perimeter and area.</b></p> <ul style="list-style-type: none"> <li>● To convert between different units of measure (for example, kilometre and metre; metre and centimetre; centimetre and millimetre; kilogram and gram; litre and millilitre).</li> <li>● To understand and use equivalences between metric units and common imperial units such as inches, pounds and pints.</li> <li>● To use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scaling.</li> <li>● To measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.</li> <li>● To calculate and compare the area of squares and rectangles including using standard units ,</li> </ul>	

		square centimetres (cm <sup>2</sup> ) and square metres (m <sup>2</sup> ) and estimate the area of irregular shapes.	
<p>Times tables</p> <p>Reading scales</p> <p>Place 5-digit numbers on a human number line</p> <p>Convert between units of time</p>		<p><b>Written methods for multiplication.</b></p> <ul style="list-style-type: none"> <li>● To multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.</li> <li>● To multiply numbers up to 4 digits by a one- or two-digit number using an efficient written method, including long multiplication for two-digit numbers.</li> <li>● To solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.</li> </ul>	
<p>Multiply and divide by 10 and 100</p> <p>How much to next pound?</p> <p>Pairs to 100</p> <p>Double 2-digit numbers</p> <p>Change from £1</p>		<p><b>Divide 4-digit numbers.</b></p> <ul style="list-style-type: none"> <li>● To 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.</li> <li>● To multiply and divide numbers mentally drawing upon known facts.</li> <li>● To solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.</li> </ul>	
<p>Factors</p> <p>Count in <math>\frac{1}{4}</math>s and <math>\frac{1}{8}</math>s along a number line</p> <p>Reading scales</p> <p>Mental multiplication</p> <p>Mental division</p>		<p><b>Fractions and decimals: tenths and hundredths.</b></p> <ul style="list-style-type: none"> <li>● To read, write, order and compare numbers with up to three decimal places. <ul style="list-style-type: none"> <li>● To read and write decimal numbers as fractions (for example <math>0,71 = \frac{71}{100}</math>)</li> <li>● To round decimals with two decimal places to the nearest whole numbers and to one decimal place.</li> <li>● To recognise and use thousandths and relate them to tenths, hundredths and decimals equivalents.</li> <li>● To solve problems involving number up to three decimal places.</li> </ul> </li> </ul>	
<p>Find lines of symmetry</p> <p>Bonds to 100</p> <p>Times tables</p> <p>Starter – Reading scales</p>		<p><b>2D and 3D shapes.</b></p> <ul style="list-style-type: none"> <li>● To distinguish between regular and irregular polygons based on reasoning about equal sides and angles.</li> <li>● To use the properties of rectangles to deduce related</li> </ul>	

	Place value in 4-digit numbers	facts and find missing lengths and angles.  ● To identify 3D shapes including cubes and cuboids from 2D representations.	
	Times tables  Reading scales  Place 5-digit numbers on a human number line  Convert between units of time  Guess the story of the graph	Tables and bar charts.  ● To complete, read and interpret information in tables, including timetables.	
		<i>Assess and Review.</i>	