



St. Peter's CE Primary School.

Mathematics: Long Term Plan-Objectives.

Year 4

Year Group-4	<u>Autumn</u>	<u>Spring</u>	<u>Summer</u>
Number: Number and Place Value	<p>Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)</p> <p>Find 1000 more or less than a given number</p> <p>Count in multiples of 25 and 1000</p> <p>Order and compare numbers beyond 1000</p> <p>Count in multiples of 6, 7 and 9</p> <p>Round any number to the nearest 10, 100 or 1000</p> <p>Identify, represent and estimate numbers using different representations</p> <p>Count backwards through zero to include negative numbers</p> <p>Solve number and practical problems that involve all of the above (place value) and with increasingly large positive numbers</p> <p>Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.</p>		
Number: Addition and Subtraction	<p>Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate</p> <p>Solve addition & subtraction two-step problems in contexts, deciding which operations and methods to use and why.</p> <p>Estimate and use inverse operations to check answers to a calculation</p> <p>Review written methods of addition and subtraction, as appropriate.</p> <p>Review written methods of addition and subtraction, as appropriate.</p>		

<p>Number: Multiplication and Division</p>		<p>Recall multiplication and division facts for multiplication tables up to 12×12</p> <p>Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers</p> <p>Multiply two-digit and three-digit numbers by a one-digit number using formal written layout</p> <p>Recognise and use factor pairs and commutativity in mental calculations</p> <p>Use a formal written method of division, dividing a 2 digit by a 1 digit number</p> <p>Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit</p> <p>Solve integer scaling problems and harder correspondence problems such as n objects are connected to m objects.</p> <p>Solve problems involving multiplying and division Review written methods of multiplication and division as appropriate.</p>	
<p>Number: Fractions</p>		<p>Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.</p> <p>Recognise and show, using diagrams, families of common equivalent fractions.</p> <p>Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.</p> <p>Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$</p>	<p>Add and subtract fractions with the same denominator</p> <p>Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths</p> <p>Recognise and write decimal equivalents of any number of tenths or hundredths</p> <p>Round decimals with one decimal place to the nearest whole number</p> <p>Compare numbers with the same number of decimal places up to two decimal places</p> <p>Solve simple measure and money problems involving fractions and decimals to two decimal places.</p>
<p>Measurement</p>			<p>Read, write and convert time between analogue and digital 12- and 24-hour clocks</p>

			<p>Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.</p> <p>Measure and calculate the perimeter of rectilinear figure (including squares) in centimetres and metres</p> <p>Find the area of rectilinear shapes by counting squares. Convert between different units of measure [for example, kilometre to metre; hour to minute]</p> <p>Estimate, compare and calculate different measures, including money in pounds and Pence</p>
Geometry: Properties of Shape			<p>Identify acute and obtuse angles and compare and order angles up to two right angles by size</p> <p>Identify lines of symmetry in 2-D shapes presented in different orientations</p> <p>Complete a simple symmetric figure with respect to a specific line of symmetry.</p> <p>Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes</p>
Geometry: Position and Direction			<p>Describe movements between positions as translations of a given unit to the left/right and up/down</p> <p>Describe positions on a 2-D grid as coordinates in the first quadrant</p> <p>Plot specified points and draw sides to complete a given polygon</p>
Statistics		<p>Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.</p> <p>Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</p>	