

Spring Term

						Half term						
	<p>Problem solving with the four operations including mental methods; ratio and proportion. (3 weeks)</p> <p>Four operations.</p> <ul style="list-style-type: none"> ➤ Perform mental calculations, including with mixed operations and large numbers (<i>up to 7 digits – difference between 383,000 and 99,500</i>) using a range of strategies. ➤ Identify multiples and factors, including finding all factor pairs of a given number and common factors of 2 numbers. ➤ Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers. ➤ Establish whether a number up to 100 is a prime number and recall prime numbers up to 19. ➤ Identify common factors, common multiples and prime numbers. ➤ Recognise and use square numbers and cube numbers and the notion for squared ² and cubed ³ ➤ Use their knowledge of the order of operations to carry out calculations involving the four operations (<i>BODMAS</i>) ➤ Solve addition and subtraction multi-step problems in contexts (<i>money, measures etc</i>), deciding which operations and methods to use and why. ➤ Solve problems involving addition, subtraction, multiplication and division (<i>including mental, jottings, written methods</i>) ➤ Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy. <p>Ratio and proportion.</p> <ul style="list-style-type: none"> ➤ Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts. ➤ Solve problems involving similar shapes where the scale factor is known or can be found. ➤ Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. 	<p>Measurement (3 weeks)</p> <ul style="list-style-type: none"> ➤ Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate ➤ Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places ➤ Convert between miles and kilometres ➤ Recognise that shapes with the same areas can have different perimeters and vice versa ➤ Recognise when it is possible to use formulae for area and volume of shapes ➤ Calculate the area of parallelograms and triangles ➤ Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other units [for example, mm³ and km³]. ➤ Read Roman numerals to 1000 (M) and recognise years written as Roman numerals. <p>Reading timetables? Time Calculating</p>		<p>Measurement continued</p>	<p>Geometry: Properties of shape; Geometry; Position and direction 3 weeks</p> <ul style="list-style-type: none"> ➤ Draw 2-D shapes using given dimensions and angles ➤ Recognise, describe and build simple 3-D shapes, including making nets ➤ Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons ➤ Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius ➤ Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. ➤ Describe positions on the full coordinate grid (all four quadrants) ➤ Draw and translate simple shapes on the coordinate plane, and reflect them in the axes. 	<p>Mock Week</p>	<p>Geometry continued</p>	<p>Place value revision</p>				

Summer Term													
						Half Term							
Revision based on outcomes of Mock week				SATS Week			Post SAT maths work						