ear 6 - Long T	erm Planning	Overview (2023 up	odates)	Recall Facts Year 6	
				<ul> <li>I know decimal number bonds (2 DP) for I and I0 eg I.23 and 8.77 to make I0</li> <li>Read and Write numbers to at least I0 000 000(Y6 Read and write numbers)</li> <li>All multiplication facts up to I2 x I2 (Y4 consolidation) including relating this to decimal division eg</li> </ul>	
	et 4 West 5 West 5	Fractions A Fr	k 10 Week 11 Week 12 mer actions 8	<ul> <li>0.4 x 3 = 1.2 etc</li> <li>I can identify common factors, common multiples and prime numbers) (Y6 Prime numbers and factors</li> <li>Prime numbers up to 50</li> <li>Composite numbers up to 50</li> <li>Recall square and cubed numbers up to 12 x 12 and 12 x 12x 12</li> <li>Recall time intervals using digital and analogue clocks. (Y5 time- consolidation)</li> <li>Recall and use equivalences between simple fractions decimals and percentages. (y5 equivalence)</li> </ul>	
Algebro	Numiter Decimals	Fractions, decimals and percentages	Statistics	<ul> <li>Convert between decimals/ fractions and percentages.(0.1, 0.25, 0.33, 0.66, 0.5, 0.75.)</li> <li>Halves and doubles up to 100</li> <li>Change from £10</li> <li>CONVERSIONS         <ul> <li>Recall of metric conversions:</li> <li>km= 1000m (1/2 km= 500m) (0.5 km = 500m)</li> </ul> </li> </ul>	
	Themed pro	jects, consolidation and p	roblem solving	I = I00  mm = I00  mm $I = I0  mm = I0  mm$ $I = I0  mm = I0  mm$ $I = I000  mm$ $I = I000  mm$	

Number-Place Value	Number- Addition and Subtraction	Number- Multiplication and Division
<ul> <li>Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit</li> <li>Identify the value of each digit to three decimal places</li> <li>Round any whole number to a required degree of accuracy</li> <li>Multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places</li> <li>Use negative numbers in context, and calculate intervals across zero</li> <li>Solve number and practical problems that involve all of the above</li> </ul>	<ul> <li>Perform mental calculations including with mixed operations and large numbers and decimals</li> <li>Add and subtract whole numbers and decimals using formal written methods (columnar addition and subtraction)</li> <li>Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy</li> <li>Use knowledge of the order of operations to carry out calculations</li> <li>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</li> <li>Solve problems involving all four operations, including those with missing numbers</li> </ul>	<ul> <li>Identify common factors, common multiples and prime numbers*</li> <li>Perform mental calculations, including with mixed operations and large numbers</li> <li>Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication</li> <li>Multiply one-digit numbers with up to two decimal places by whole numbers</li> <li>Divide numbers up to 4 digits by a two-digit whole number using the formal written methods of short or long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context</li> <li>Use written division methods in cases where the answer has up to two decimal places</li> <li>Use estimation and inverse to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy</li> </ul>

Number- Fractions, Decimals and Percentages	Geometry- Properties of Shapes	<ul> <li>Use knowledge of the order of operations to carry out calculations</li> <li>Solve problems involving all four operations, including those with missing numbers</li> </ul>
<ul> <li>Compare and order fractions, including fractions &gt; 1</li> <li>Use common factors to simplify fractions; use common multiples to express fractions in the same denomination</li> <li>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts *</li> <li>Associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375 and <sup>3</sup>/<sub>8</sub>)</li> <li>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions</li> <li>Multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. <sup>1</sup>/<sub>4</sub> x <sup>1</sup>/<sub>2</sub> = <sup>1</sup>/<sub>8</sub>)</li> <li>Divide proper fractions by whole numbers (e.g. <sup>1</sup>/<sub>3</sub> + 2 = <sup>1</sup>/<sub>6</sub>)</li> <li>Find simple percentages of amounts</li> <li>Solve problems involving fractions</li> <li>Solve problems involving the calculation of percentages (e.g. of measures and such as 15% of 260) and the use of percentages for comparison</li> <li>I can solve problems involving unequal sharing and grouping, using knowledge or fractions and multiples.</li> </ul>	<ul> <li>Compare/classify geometric shapes based on the properties and sizes</li> <li>Draw 2-D shapes using given dimensions and angles</li> <li>Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice th radius</li> <li>Recognise, describe and build simple 3-D shapes, making nets</li> <li>Recognise angles where they meet at a point, are on a straight line, or are vertically opposite.</li> <li>I can find unknown angles in any triangle, quadrilateral and regular polygons.</li> <li>I can solve problems involving similar shapes, where the scale factor is known or can be found.</li> <li>Geometry- Position and Direction</li> <li>Describe positions on the full coordinate grid (all four quadrants)</li> <li>Draw and translate simple shapes on the coordinate plane, and reflect them in the axes</li> <li>Statistics</li> <li>Interpret and construct pie charts and line graphs and use these to solve problems</li> <li>Calculate and interpret the mean as an average</li> <li>Algebra</li> <li>Use simple formulae</li> <li>Generate and describe linear number sequences</li> <li>Express missing number problems algebraically</li> <li>Find pairs of numbers that satisfy an equation with two unknowns</li> <li>Enumerate possibilities of combinations of two variables</li> </ul>	<ul> <li>Use, read and write standard units of length, mass, volume and time using decimal notation to three decimal places</li> <li>Convert between standard units of length, mass, volume and time using decimal notation to three decimal places*</li> <li>Convert between miles and kilometres</li> <li>Recognise that shapes with the same areas can have different perimeters and vice versa</li> <li>Calculate the area of parallelograms and triangles</li> <li>Recognise when it is possible to use formulae for area and volume of shapes</li> <li>I can recognise when it is possible to use formulae for area and volume of shapes.</li> <li>Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm<sup>3</sup>) and cubic metres (m<sup>3</sup>), and extending to other units (e.g. mm<sup>3</sup> and km<sup>3</sup>)</li> <li>Time intervals using digital and analogue clock *</li> <li>Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate</li> </ul>