

## Year 6– Maths 2022-23

Autumn Week:	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Half Term	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
<b>Concept:</b>	PIXL Assessments	<p><b>Number: Place Value</b></p> <ul style="list-style-type: none"> <li>● read, write, (order and compare) numbers up to 10 000 000 and determine the value of each digit</li> <li>● round any whole number to a required degree of accuracy use negative numbers in context, and calculate intervals across zero</li> <li>● solve number and practical problems that involve all of the above</li> <li>● Powers of 10</li> </ul>	<p><b>Number: Addition, Subtraction Multiplication and Division</b></p> <ul style="list-style-type: none"> <li>● order of operations</li> <li>● solve multistep problems in contexts</li> <li>● identify common factors, common multiples and prime numbers</li> <li>● use estimation to check answers</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>● divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context</li> <li>● perform mental calculations, including with mixed operations and large numbers</li> <li>● Division using factors</li> </ul>	<p><b>Number: Fractions:</b></p> <ul style="list-style-type: none"> <li>● use common factors to simplify fractions</li> <li>● use common multiples to express fractions in the same denomination</li> <li>● compare and order fractions, including fractions &gt; 1</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</li> <li>● divide proper fractions by whole numbers</li> </ul>	<p><b>Number: Ratio:</b></p> <ul style="list-style-type: none"> <li>● solve problems involving the relative sizes of two quantities using integer multiplication and division facts</li> <li>● solve problems involving the calculation/ use of percentages for comparison</li> <li>● solve problems involving similar shapes using scale factor</li> <li>● solve problems involving unequal sharing and grouping using</li> </ul>	<p><b>Measurement : Converting Units</b></p> <ul style="list-style-type: none"> <li>● solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 d.p. where appropriate</li> <li>● use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure</li> </ul>									



	<ul style="list-style-type: none"> <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>	<p>numbers given to three decimal places.</p> <ul style="list-style-type: none"> <li>Round decimal up to 3 decimal places</li> <li>Add and subtract decimals</li> <li>Multiply and divide by 10, 100 and 1000.</li> </ul>	<ul style="list-style-type: none"> <li>associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, <math>\frac{3}{8}</math>]</li> <li>recall and use equivalences between simple fractions, decimals and percentages, including in different contexts</li> </ul>		<p><b><u>s,</u></b> <b><u>percent</u></b> <b><u>ages</u></b></p> <ul style="list-style-type: none"> <li>associate a fraction with division and calculate decimal fractions equivalents [for example, 0.375] for a simple fraction [for example, <math>\frac{3}{8}</math>]</li> <li>recall and use equivalences between simple fractions, decimals and percentages, including in different contexts</li> </ul>	<ul style="list-style-type: none"> <li>recognise that shapes with the same areas can have different perimeters and vice versa</li> <li>recognise when it is possible to use formulae for area and volume of shapes</li> <li>calculate the area of parallelograms and triangles</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</li> </ul>	<p>Two-way graphs Timetables</p> <ul style="list-style-type: none"> <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> </ul> <p>(Some areas of statistics to be integrated into other areas of the curriculum)</p>	<ul style="list-style-type: none"> <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> </ul>
<b>Representations:</b>	Cuisenaire rods Bar model	Base ten Place value counters	Cuisenaire rods Bar model		Cuisenaire rods	Numicon Base 10	Graphs	

	Numicon Counters		Numicon Counters Fraction walls Fraction plates		Bar model Numicon Counters Fraction walls Fraction plates	Cubes	Real life representations of data.	
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Summer Week:	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Half Term	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
	<p><b>Shape:</b></p> <ul style="list-style-type: none"> <li>draw 2-D shapes using given dimensions and angles</li> <li>compare and classify geometric shapes based on their properties and sizes</li> <li>illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius</li> </ul> <p>recognise, describe</p>			<b>SATS</b>	Place Value	Calculations Addition / subtraction / multiplication / division		Calculations Addition / subtraction / multiplication / division	Fractions, decimals and percentages.	Algebra	Geometry	Measurement	Statistics

and build simple 3-D shapes, including making nets

- find unknown angles in any triangles, quadrilaterals, and regular polygons
- recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles

