

## Year 6 Maths Curriculum Map: 2023-2024

Timescale	13 weeks		11 weeks		12 weeks	
Overall theme	Woeful World Wars		The American Dream		Extreme Earth	
<b>Maths</b>	<p><b>Place Value</b> read, write, order and compare numbers up to 10 000 000 and determine the value of each digit</p> <p>round any whole number to a required degree of accuracy</p> <p>use negative numbers in context, and calculate intervals across zero</p> <p>identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places</p> <p>solve number and practical problems that involve all of the above.</p>	<p><b>Position and Direction</b> describe positions on the full coordinate grid (all four quadrants)</p> <p>draw and translate simple shapes on the coordinate plane, and reflect them in the axes.</p> <p><b>Statistics</b> interpret and construct pie charts and line graphs and use these to solve problems</p> <p><b>Fractions, Decimals and Percentages</b> recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</p> <p><b>Fractions</b> use common factors to simplify fractions; use common multiples to express</p>	<p><b>Place Value</b> Revisit previously learnt place value</p> <p><b>Percentages</b> solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison</p> <p><b>Mental and Written Calculation</b> use their knowledge of the order of operations to carry out calculations involving the four operations</p> <p>perform mental calculations, including with mixed operations and large numbers</p>	<p><b>Shape and Angles</b> draw 2-D shapes using given dimensions and angles recognise, describe and build simple 3-D shapes, including making nets</p> <p>compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons</p> <p>recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles</p> <p><b>Measurement</b> Revisit previously learnt perimeter, area and volume</p>	<p><b>Decimals</b> identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places</p> <p><b>Fractions</b> Revisit previously learnt fractions – equivalence,</p>	<p>Children to complete project based learning to prepare them for the transition to Secondary School.</p>

	<p><b>Addition and Subtraction</b> perform mental calculations, including with mixed operations and large numbers</p> <p>solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</p> <p><b>Multiplication</b> multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication</p> <p><b>Division</b> 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</p>	<p>fractions in the same denomination</p> <p>compare and order fractions, including fractions <math>&gt; 1</math></p> <p>add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions</p> <p>multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, <math>\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}</math>]</p> <p>divide proper fractions by whole numbers [for example, <math>\frac{1}{3} \div 2 = \frac{1}{6}</math>]</p> <p><b>Measurement</b> use, read, write and convert between standard units, converting measurements of length, mass, volume and time, using decimal notation to up to three decimal places</p> <p>solve problems involving the calculation and conversion of units of measure, using decimal notation up to three</p>	<p>revisit previously learnt methods for the 4 operations</p> <p>solve problems involving addition, subtraction, multiplication and division</p> <p><b>Position and Direction</b> Revisit previously learnt coordinates, translation and reflection</p> <p><b>Algebra</b> use simple formulae</p> <p>generate and describe linear number sequences</p> <p>express missing number problems algebraically</p> <p><b>Ratio and Proportion</b> solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts</p> <p>solve problems involving similar shapes where the</p>	<p><b>Statistics</b> calculate and interpret the mean as an average</p> <p>interpret and construct pie charts and line graphs and use these to solve problems</p> <p><b>Ratio and Proportion</b> Revisit previously learnt ratio and proportion</p> <p><b>Algebra</b> use simple formulae</p> <p>generate and describe linear number sequences</p> <p>express missing number problems algebraically</p> <p>find pairs of numbers that satisfy an equation with two unknowns</p> <p>enumerate possibilities of combinations of two variables.</p> <p><b>4 rules of number</b></p>	<p>simplifying etc.</p> <p>Children to complete project based learning to prepare them for the transition to Secondary School.</p>	
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	<p>solve problems involving addition, subtraction, multiplication and division</p> <p><b>Area, Perimeter and Volume of Shapes</b> recognise that shapes with the same areas can have different perimeters and vice versa</p> <p>recognise when it is possible to use formulae for area and volume of shapes</p> <p>calculate the area of parallelograms and triangles</p>	<p>decimal places where appropriate</p> <p>convert between miles and kilometres</p> <p><b>Number</b> identify common factors, common multiples and prime numbers</p> <p><b>Multiplication &amp; Division</b> multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication</p> <p>divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context</p>	<p>scale factor is known or can be found</p> <p>solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.</p> <p><b>Calculating with Decimals</b> identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places</p> <p>multiply one-digit numbers with up to two decimal places by whole numbers</p> <p>use written division methods in cases where the answer has up to two decimal places</p>	<p>Revisit previously learnt methods and problem solving</p> <p><b>Fractions, Decimals and Percentages</b> associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8]</p> <p>Revisit previously learnt fractions, decimals and percentages</p>		
<p><b>Cross Curricular Maths</b></p>	<p><b>History</b> - dates / timelines, amounts linked to WW2</p> <p><b>DT</b> - Measuring and scaling for making a frame and other parts</p>	<p><b>Science</b> - graphs and data</p> <p><b>History</b> - dates / timelines</p>	<p><b>Geography</b> - position – lines of latitude/longitude, time zones, negative numbers - temperatures</p>	<p><b>Science</b> - measuring changes in pulse rate/heart rate before and after exercise</p> <p><b>Geography</b> – data handling biomes – temperature.</p>	<p><b>Science</b> - present information in a table</p>	<p><b>Science</b> - measuring and comparing</p>

