

## YEAR 6 AUTUMN TERM

WEEKS	TOPIC	MAIN OBJECTIVES	
1-2	Testing etc. Number and place value	<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</li> <li>• Use negative numbers in context</li> <li>• Calculate intervals across zero</li> <li>• Solve number and practical problems that involve all of the above</li> <li>• Identify the value of each digit in numbers given to three decimal places</li> <li>• Multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places</li> </ul>	<i>Includes some elements of fractions, decimals and percentages</i>
3-4	Addition, subtraction, multiplication & division	<ul style="list-style-type: none"> <li>• Perform mental calculations, including with mixed operations and large numbers</li> <li>• Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</li> <li>• Identify common factors, common multiples and prime 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 number using the formal written methods of short division where appropriate, interpreting remainders according to the context</li> <li>• Use knowledge of the order of operations to carry out calculations involving the four operations</li> </ul>	<i>Division method – short division Some objectives lifted from fractions, decimals and percentages</i>
5-6	Fractions (including decimals and percentages)	<ul style="list-style-type: none"> <li>• Associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. <math>\frac{3}{8}</math>)</li> <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 <math>&gt;1</math></li> <li>• Add and subtract fractions with different denominators and mixed numbers, using the concept of</li> </ul>	

		equivalent fractions	
7	Ratio & Proportion	<ul style="list-style-type: none"> <li>• Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts</li> <li>• Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples</li> </ul>	
8	Measurement	<ul style="list-style-type: none"> <li>• Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places 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 to a larger unit, and vice versa, using decimal notation to up to three decimal places</li> <li>• Convert between miles and kilometres</li> </ul>	
9-10	Properties of shape	<ul style="list-style-type: none"> <li>• Draw 2-D shapes using given dimensions and angles</li> <li>• Recognise, describe and build simple 3-D shapes, including making nets</li> <li>• Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons</li> <li>• Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius</li> <li>• Recognise angles where they meet at a point, are on a straight line or are vertically opposite and find missing angles</li> </ul>	
11	Position & Direction	<ul style="list-style-type: none"> <li>• Describe positions on the full coordinate grids (all four quadrants)</li> <li>• Draw and translate simple shapes on the coordinate plane and reflect them in the axes</li> </ul>	
12	Statistics	<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>	

## YEAR 6 SPRING TERM

WEEKS	TOPIC	MAIN OBJECTIVES	
1-3	Testing Addition, subtraction, multiplication & division	<ul style="list-style-type: none"> <li>• Perform mental calculations, including with mixed operations and large numbers</li> <li>• Use knowledge of the order of operations to carry out calculations involving the four operations</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 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</li> <li>• Use written division methods in cases where the answer has up to two decimal places</li> <li>• Solve problems involving addition, subtraction, multiplication and division</li> <li>• Use estimation to check answers to calculations to determine, in the context of a problems, an appropriate degree of accuracy</li> <li>• Solve problems which require answers to be rounded to specified degrees of accuracy</li> </ul>	<i>Division method – long division</i> <i>Some objectives lifted from fractions</i>
4	Measurement	<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 (e.g. mm<sup>3</sup> and km<sup>3</sup>)</li> </ul>	
5-6	Fractions (including decimals and percentages)	<ul style="list-style-type: none"> <li>• Multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. <math>\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}</math>)</li> <li>• Divide proper fractions by whole numbers (e.g. <math>\frac{1}{3} \div 2 = \frac{1}{6}</math>)</li> <li>• Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts</li> <li>• Solve problems involving the calculation</li> </ul>	<i>Some objectives lifted from ratio &amp; proportion</i>

		of percentages (e.g. of measures and such as 15% of 360) and the use of percentages for comparison	
7-8	Algebra	<ul style="list-style-type: none"> <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>	
<p><i>The rest of the term will be spent revising topics, according to the needs of individual children and classes.</i></p>			

# YEAR 6 SUMMER TERM

WEEKS	TOPIC	MAIN OBJECTIVES	
1-4	Revision	<ul style="list-style-type: none"><li>•</li></ul>	
5	SATs Week	<ul style="list-style-type: none"><li>•</li></ul>	

*The rest of the term will be spent on transition work.*