

## Year 6

Term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
<b>Autumn</b>	Place value		Addition, subtraction, multiplication and division					Fractions				Converting units
<b>Spring</b>	Converting units	Decimals				Fractions, decimals and percentages			Ratio		Algebra	
<b>Summer</b>	Area, perimeter and volume			Statistics		Shape			Position and direction			

Term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
------	--------	--------	--------	--------	--------	--------	--------	--------	--------	---------	---------	---------

Autumn	Place value	Addition, subtraction, multiplication and division	Fractions	Converting units
	Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit	Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication	Use common factors to simplify fractions; use common multiplies to express fractions in the same denomination	Solve problems involving the calculation and conversion of units of measure, using decimals notation up to 3 decimals places where appropriate
	Round any whole number to a required degree of accuracy	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 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	Compare and order fractions, including fractions >1	
	Use negative numbers in context, and calculate intervals across 0	Perform mental calculations, including with mixed operations and large numbers	Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions	Use, read, write and convert between standard units, converting measurements of length, mass, volume and time for a small unit of measure to a larger unit, and vice versa, using decimal notation to up to 3 decimal places
	Solve number and practical problems that involve all of the above	Identify common factors, common multiples and prime numbers	Multiply simple pairs of proper fractions, writing the answer in its simplest form	
		Use their knowledge of the order of operations to carry out calculations involving the 4 operations	Divide proper fractions by whole numbers	
		Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why		
		Solve problems involving addition, subtraction, multiplication and division		
		Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy		Convert between miles and kilometres

Spring	Converting units	<p><b>Decimals</b></p> <p>Identify the value of each digit in numbers given to three decimals 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>Solve problems which require answers to be rounded to specified degrees of accuracy</p>	<p><b>Fractions, decimals and percentages</b></p> <p>Recall and use equivalence between simple fractions, decimals and percentages, including in different contexts</p>	<p><b>Ratio</b></p> <p>relative sizes of 2 quantities where missing values can be found by using integer multiplication and division facts</p> <p>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>Solve problems involving similar shapes where the 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>Algebra</b></p> <p>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 2 unknowns</p> <p>Enumerate possibilities of combinations of 2 variables</p>
--------	------------------	---	---	--	--

<b>Summer</b>	<p><b>Area, perimeter and volume</b></p> <p>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>Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres and cubic metres and extending to other units</p>	<p><b>Statistics</b></p> <p>Interpret and construct pie charts and line graphs and use these to solve problems</p> <p>Calculate and interpret the mean as an average</p>	<p><b>Shape</b></p> <p>Draw 2-D shapes using given dimensions and angles</p> <p>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>Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius</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>Position and direction</b></p> <p>Describe positions on the full coordinate grid (all 4 quadrants)</p> <p>Draw and translate simple shapes on the coordinate plane, and reflect them in the axes</p>	
---------------	--	--	---	--	--