Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Number and Place Value: - Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit - Round any whole number to a required degree of accuracy - Solve number and practical problems that involve all of the above. <u>Number:</u> Addition and Subtraction/ Multiplication and Division: - Perform mental calculations, including with mixed operations and large numbers. - Identify common factors, common multiples and prime numbers.	Number and Place Value: - Use negative numbers in context, and calculate intervals across zero - Solve number and practical problems that involve all of the above. <u>Number:</u> Addition and Subtraction/ Multiplication and Division: - Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. - Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.	Number: Addition and Subtraction/ Multiplication and Division: - Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication. <u>Number:</u> Fractions, Decimals and Percentages: - 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.	Number: Addition and Subtraction/ Multiplication and Division: - 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. - 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. <u>Number</u> Fractions, Decimals and Percentages: - Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a	Number: Addition and Subtraction/ Multiplication and Division: - Perform mental calculations, including with mixed operations and large numbers- Revisit. <u>Number</u> Fractions, Decimals and Percentages: - Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts. <u>Measurement</u> - Convert between miles and kilometres - Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal	Number: Addition and Subtraction/ Multiplication and Division: - Solve problems involving addition, subtraction, multiplication and division - Use their knowledge of the order of operations to carry out calculations involving the four operations Mumber Fractions, Decimals and Percentages: - Solve problems which require answers to be rounded to specified degrees of accuracy. Ratio and Proportion - Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.

## Maths Long Term Plan Year 6

Number	Number	Algebra	simple fraction [for example,	places where appropriate-	<u>Measurement</u>
Fractions, Decimals	Fractions, Decimals	- Express missing number	3/8].	Revisit.	- Calculate, estimate and
	,	problems algebraically			compare volume of cubes
and Percentages:	and Percentages:	- Find pairs of numbers that	- Use written division	- Use, read, write and	and cuboids using standard
- Use common factors to	- Multiply simple pairs of	satisfy an equation with two	methods in cases where the	convert between standard	units, including cubic
simplify fractions; use	proper fractions, writing the	unknowns	answer has up to two	units, converting	centimetres (cm3) and cubic
common multiples to	answer in its simplest form	- Enumerate possibilities of	decimal places.	measurements of length,	metres (m3), and extending
express fractions in the same	[for example, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$ ].	combinations of two		mass, volume and time from	to other units [for example,
denomination.	- Divide proper fractions by	variables.	Ratio and Proportion	a smaller unit of measure to	mm3 and km3].
- Compare and order	whole numbers [for		<ul> <li>Solve problems involving</li> </ul>	a larger unit, and vice versa,	
fractions, including fractions	example, 1/3 ÷ 2 = 1/6]		similar shapes where the	using decimal notation to up	- Recognise when it is
> 1.		<u>Measurement</u>	scale factor is known or can	to three decimal places-	possible to use formulae for
- Add and subtract fractions	Ratio and Proportion	- Solve problems involving	be found.	Revisit.	area and volume of shapes
with different denominators	- Solve problems involving	the calculation and			
and mixed numbers, using	the relative sizes of two	conversion of units of	Geometry:	Geometry:	Coometry
the concept of equivalent	quantities where missing	measure, using decimal	Position and	Properties of Shape:	<u>Geometry:</u>
fractions.	values can be found by using	notation up to three decimal		•	Properties of Shape:
	integer multiplication and	places where appropriate	Direction:	- Illustrate and name parts	- Recognise, describe and
<u>Algebra</u>	division facts.	- Use, read, write and	- Describe positions on the	of circles, including radius,	build simple 3-D shapes,
- Use simple formulae	- Solve problems involving	convert between standard	full coordinate grid (all	diameter and	including making nets.
	the calculation of	units, converting	four quadrants)	circumference and know	
- Generate and describe	percentages [for example, of	measurements of length,		that the diameter is twice	
linear number sequences.	measures, and such as 15%	mass, volume and time from a smaller unit of measure to	- Draw and translate	the radius.	
	of 360] and the use of	a larger unit, and vice versa,	simple shapes on the		
Measurement	percentages for comparison.	using decimal notation to up		Decognico ongles where	
- Recognise that shapes with		to three decimal places	coordinate plane, and	- Recognise angles where	
the same areas can have		to three decimal places	reflect them in the axes.	they meet at a point, are	
different perimeters and vice	Geometry	Chatiatian		on a straight line, or are	
versa.	Properties of Shape:	Statistics:		vertically opposite, and	
	- Compare and classify	<ul> <li>Interpret and construct</li> </ul>		find missing angles.	
- Calculate the area of	geometric shapes based	line graphs and use these			
parallelograms and triangles.	•	to solve problems.		Statistics	
	on their properties and				
	sizes and find unknown	- Calculate and interpret		- Interpret and construct	
	angles in any triangles,	the mean as an average.		pie charts and use these	
				to solve problems.	

		1
quadrilaterals, and regular		
polygons.		
- Draw 2-D shapes using		
given dimensions and		
given unitensions and		
angles.		