	Autumn	<u>Spring</u>	<u>Summer</u>
Year 5	Place Value	Multiplication and Division	Decimals
	Read, write, order and compare numbers to at least 1000000 and determine the value of each digit.	Multiply and divide numbers mentally drawing upon known facts.	Solve problems involving number up to three decimal places.
	Count forwards or backwards in steps of powers of 10 for any given number up to 1000000.	Multiply numbers up to 4 digits by a one or two digit number using a formal written method, including long multiplication for 2 digit numbers.	Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 Use all four operations to solve problems
	Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers including through	Divide numbers up to 4 digits by a one digit number using the formal written method of short division and interpret remainders appropriately for the context.	involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.
	zero. Round any number up to 1000000 to the	Solve problems involving addition and subtraction, multiplication and division and a combination of these, including understanding the use of the equals sign.	Geometry – Properties of Shapes Identify 3D shapes, including cubes and other cuboids, from 2D representations.
	nearest 10, 100, 1000, 10000 and 100000 Solve number problems and practical	<u>Fractions</u> Compare and order fractions whose denominators are	Use the properties of rectangles to deduce related facts and find missing lengths and angles.
	problems that involve all of the above. Read Roman numerals to 1000 (M) and	multiples of the same number. Identify, name and write equivalent fractions of a	Distinguish between regular and irregular polygons based on reasoning about equal sides
	recognise years written in Roman numerals.	given fraction, represented visually including tenths and hundredths.	and angles.
	Addition and Subtraction Add and subtract numbers mentally with increasingly large numbers.	Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements >1 as a mixed number [for	Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. Draw given angles, and measure them in degrees
	Add and subtract whole numbers with more than 4 digits, including using formal written	example $2/5 + 4/5 = 6/5 = 1$ whole and $1/5$] Add and subtract fractions with the same denominator	(0)
	methods (columnar addition and subtraction)	and denominators that are multiples of the same number.	Identify: angles at a point and one whole turn (total 360o), angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180o) other multiples of 90o
	Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.		

Solve addition and subtraction multi-step	Fractions	Geometry – Position and Direction
problems in contexts, deciding which	Multiply proper fractions and mixed numbers by whole	Identify, describe and represent the position of a
operations and methods to use and why.	numbers, supported by materials and diagrams.	shape following a reflection or translation, using the appropriate language, and know that the
<u>Statistics</u>	Read and write decimal numbers as fractions [for	shape has not changed.
Solve comparison, sum and difference problems using information presented in a	example 0.71 = 71/100]	
line graph.	Solve problems involving multiplication and division,	Measurement – Converting Units
	including scaling by simple fractions and problems	Convert between different units of metric
Complete, read and interpret information in	involving simple rates.	measure [for example, km and m; cm and m; cm
tables including timetables.		and mm; g and kg; I and mI]
	Decimals and Percentages	
Multiplication and Division	Read, write, order and compare numbers with up to	Understand and use approximate equivalences
Multiply and divide numbers mentally	three decimal places.	between metric units and common imperial unit
drawing upon known facts.		such as inches, pounds and pints.
	Recognise and use thousandths and relate them to	
Multiply and divide whole numbers by 10,	tenths, hundredths and decimal equivalents.	Solve problems involving converting between
100 and 1000.		units of time.
	Round decimals with two decimal places to the	
Identify multiples and factors, including	nearest whole number and to one decimal place.	<u>Measurement – Volume</u>
finding all factor pairs of a number, and		Estimate volume [for example using 1cm3 blocks
common factors of two numbers.	Solve problems involving number up to three decimal	to build cuboids (including cubes)] and capacity
	places.	[for example, using water]
Recognise and use square numbers and cube		
numbers and the notation for squared (2)	Recognise the per cent symbol (%) and understand	Use all four operations to solve problems
and cubed (3)	that per cent relates to 'number of parts per hundred',	involving measure.
	and write percentages as a fraction with denominator	
Solve problems involving multiplication and	100, and as a decimal.	
division including using their knowledge of		
factors and multiples, squares and cubes.	Solve problems which require knowing percentage and decimal equivalents of ½ ¼ ¾ 1/5 2/5 4/5 and those	
Know and use the vocabulary of prime	fractions with a denominator of a multiple of 10 or 25.	
numbers, prime factors and composite		
(nonprime) numbers.		
Establish whether a number up to		
100 is prime and recall prime numbers up to		
19.		

Devise star and Area	
Perimeter and Area	
Measure and calculate the perimeter of	
composite rectilinear shapes in cm and m.	
composite rectiment shapes in em and mi	
Calculate and compare the area of	
rectangles (including squares), and including	
using standard units and my 2 actionate the	
using standard units, cm2,m2 estimate the	
area of irregular shapes.	
area or irregular shapes.	