Y1		Autumn		Spring		Summer	
Y1 Number	Place Value	Within 10, Identify and represent numbers using objects and pictorial representations. Read and write numbers from 1 to 20 in numerals and words.	Within 20, identify and represent numbers using objects and pictorial representations. Read and write numbers from 1 to 20 in numerals and words.	Within 50, identify and represent numbers using objects and pictorial representations. Count to and across 50, forwards and backwards, beginning with 0 or 1, or from any given number.			Within 100, Partition two-digit numbers into different combinations of tens and ones, explaining their thinking verbally, in pictures or using apparatus.
	Addition & Subtraction	Within 10, given a number, identify one more or one less. Add and subtract one-digit numbers to 10, including zero.	Read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs.	Recall all the number bonds to and within 10. And use these to reason with and calculate bonds to and within 20, recognising other associated additive relationships. Add and subtract one-digit and two-digit numbers to 20, including zero.			
	Multiplication & Division			Count, read and write numbers to 50 in numerals; count in multiples of twos, fives and tens.	Recall multiplication and division facts for 2 and 10 and use them to solve simple problems, demonstrating and understanding of theas necessary.		
	Fractions					Identify 1/2 and ¼ of a number or shape and know that all the parts	

						must be equal parts of the whole.	
Y1 Geometry	Position & Direction					Describe position, direction and movement, including whole, half, quarter and three-quarter turns	
	Properties of Shapes		Recognise and name common 2 D and 3 D shapes.				
Y1 Measure	Length & Height			Compare, describe and solve practical problems for lengths and heights.			
	Weight & Volume				Compare, describe and solve practical problems for mass/weight.		
	Money				Recognise and know the value of different denominations of coins and notes.		
	Time					Read the time on a clock (to half an hour).	Recognise and use language relating to dates, including days of the week, weeks, months and years. Sequence events in chronological order using language.

Y2		Autumn		Spring		Summer	
Y2 Number	Place Value	Read and write numbers to at least 100 in numerals and in words. Compare and order numbers from 0 up to 100; use and = signs. Use place value and number facts to solve problems. Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward.					
	Addition & Subtraction	Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.					
	Multiplication & Division		Recall multiplication and division facts for 2, 5 and 10. Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×),	Use multiplication and division facts for 2, 5 and 10 to solve simple problems, demonstrating and understanding of commutativity as necessary.			

			division (÷) and equals (=) signs.				
	Fractions				Fractions – Identify ¼, 1/3, ½, 2/4, ¾ of a number or shape and know that all the parts must be equal parts of the whole. Write simple fractions for example, ½ of 6 = 3 and recognise the equivalence of 2/4 and ½.		
Y2 Geometry	Position & Direction					Use mathematical vocabulary to describe position, direction and movement including: movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise).	
	Properties of Shapes				Name, describe, compare and sort properties of 2D and 3D shapes, including number of sides, vertices, edges, faces and lines of symmetry.		
Y2 Measure	Length & Height					Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm)	

	Mass, Capacity &						Compare and order lengths, mass, volume/capacity and record the results using >, < and =.
	Mon			Use different coins to make the same amount.			
	Time						Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times. Know the number of minutes in an hour and the number of hours in a day. Compare and sequence intervals of time.
Y2 Statistics						Interpret and construct simple pictograms, tally charts, block diagrams and simple tables. Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.	

Y3		Autumn		Spring		Summer	
Y3 Number	Place Value	Recognise the place value of each digit in a three-digit number (hundreds, tens, ones). Compare and order numbers up to 1000. Read and write numbers up to 1000 in numerals and in words. Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number.					
	Addition & Subtraction	Add and subtract numbers mentally, including a three-digit number and hundreds.	Add numbers with up to three digits, using formal written methods of columnar addition. Subtract numbers with up to three digits, using formal written methods of columnar subtraction.				
	Multiplication & Division		Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.	Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for two-digit numbers times one digit numbers, using mental and progressing		Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.	

				to formal written methods.			
	Fractions					Compare and order unit fractions, and fractions with the same denominators. Recognise and show, using diagrams, equivalent fractions with small denominators. Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10. Fractions - Add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$	
Y3 Geometry	P O						
	Properties of Shapes						Recognise angles as a property of shape or a description of a turn. Identify right angles, recognise that two right angles make a half turn, three make three quarters of a turn and four a complete turn; identify whether angles

							are greater than or less than a right angle. Identify horizontal and vertical lines and pairs of perpendicular and parallel lines. Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them.
Y3 Measure	Length & Perimeter				Measure the perimeter of simple 2D shapes. Measure, compare, add and subtract length.		
	Mass, Capacity &						Measure, compare, add and subtract: mass (kg/g); volume/capacity (l/ml).
	Money					Add and subtract amounts of money to give change, using both £ and p in practical contexts	
	Time					Estimate and read time with increasing accuracy to the nearest minute. Know the number of seconds in a minute and the number of days in each month, year and leap year.	

						Compare the duration of events. Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks.	
Y3 Statistics				Solve one step and two step questions [for example, 'How many more?' and 'How many fewer?' using information presented in scaled bar charts and pictograms and tables.			

Y4		Autumn		Spring		Summer	
Y4 Number	Place Value	Order, compare and round (nearest 10,100 and 1000) numbers beyond 1000. Count backwards through zero to include negative numbers. Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.	Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.				
	Addition & Subtraction	Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.					
	Multiplication & Division		Recall multiplication and division facts for multiplication tables up to 12 × 12.	Multiply two-digit and three-digit numbers by a one-digit number using formal written layout. Recognise and use factor pairs and commutativity in mental calculations			Recall multiplication and division facts for multiplication tables up to 12 × 12.
	Fractions (including				Count up and down in hundredths; recognise that hundredths arise when dividing an	Compare numbers with the same number of decimal	

					object by one hundred and dividing tenths by ten. Recognise and show, using diagrams, families of common equivalent fractions. Add and subtract fractions with the same denominator. Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number. Recognise and write decimal equivalents of any number of tenths or hundredths. Solve simple measure and money problems involving fractions and decimals to two decimal places.	places up to two decimal places. Round decimals with one decimal place to the nearest whole number. Recognise and write decimal equivalents to 1/4, 1/2, 3/4.	
Y4 Geometry	Position & Direction						Describe positions on a 2D grid as coordinates in the first quadrant. Describe movements between positions as translations.

							Plot specific points and draw sides to complete a polygon.
	Properties of Shapes						Identify acute and obtuse angles and compare and order angles up to two right angles by size. Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. Identify lines of symmetry in 2-D shapes presented in different orientations. Complete a simple symmetric figure with respect to a specific line of symmetry.
Y4 Measure	Length & Perimeter			Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres. Find the area of rectilinear shapes by counting squares.			
	Mass						
	Money					Estimate, compare and calculate different measures, including money in pounds and pence.	

	Time					Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days. Read, write and convert time between analogue and digital 12- and 24-hour clocks.	
Y4 Statistics							Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.

Y5		Autumn		Spring		Summer	
Y5 Number	Place Value	Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000. Read, write, order, compare and round numbers to at least 1 000 000 and determine the value of each digit. Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero. Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.					
	Addition & Subtraction	Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction).					
	Multiplication & Division		Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.	Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long			

			Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) number. Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3).	multiplication for two-digit numbers. 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.			
	Fractions, Decimals & Percentages			Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths. Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number (for example, 2/5 + 4/5 = 6/5 = 1 1/5). Compare and order fractions whose denominators are all	Add and subtract fractions with the same denominator and denominators that are multiples of the same number. Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. Solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those fractions	Solve problems involving number up to three decimal places.	

				multiples of the same number.	with a denominator of a multiple of 10 or 25. Read, write, order and compare numbers with up to three decimal places. Read and write decimal numbers as fractions (for example, 0.71 = 71/100). Round decimals with two decimal places to the nearest whole number and to one decimal place. Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal.		
Y5 Geometry	Position & Direction						Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.
	Properties of Shapes					Identify angles at a point and one whole turn (total 360°). Identify angles at a	Identify 3-D shapes, including cubes and other cuboids, from 2-D representations.

						point on a straight line and 1/2 a turn (total 180°). Draw given angles, and measure them in degrees (°). Use the properties of rectangles to deduce related facts and find missing lengths and angles. Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.	
Y5 Measure	Length & Perimeter			Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres. Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes.			
	Mass, Capacity & Temperature						Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and

							kilogram; litre and millilitre). Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints. Estimate volume (for example, using 1 cm3 blocks to build cuboids (including cubes)) and capacity (for example, using water).
	Mo						
	Tim						
Y5 Statistics					Complete, read and interpret information in tables, including timetables. Solve comparison, sum and difference problems using information presented in a line graph.		

Y6		Autumn		Spring		Summer	
Y6 Number	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. Use negative numbers in context, and calculate intervals across zero.					
	Addition & Subtraction	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.					
	Multiplication & Division		Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication. Perform mental calculations, including with mixed operations and large numbers. 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. Identify common factors, common multiples and prime numbers.				
	Fractions, Decimals & Percentages		Use common factors to simplify fractions; use common multiples to express fractions in the same denomination. Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions. Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts. Multiply simple pairs of proper fractions, writing the answer in its simplest form (for	Multiplication - Multiply one-digit numbers with up to two decimal places by whole numbers. Division - Use written division methods in cases where the answer has up to two decimal places. Decimals - Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts. Associate a fraction with division and calculate decimal fraction equivalents (for example, 0.375) for a simple fraction (for example, 3/8). Recall and use equivalences between simple fractions,			

			example, ¼ x ½ = 1/8). Divide proper fractions by whole numbers (for example, 1/3 ÷ 2 = 1/6).	decimals and percentages, including in different contexts. Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.			
Y6 Geometry	Position & Direction						Describe positions on the full coordinate grid (all four quadrants). Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.
	Properties of Shapes					Calculate the area of parallelograms and triangles. Recognise that shapes with the same areas can have different perimeters and vice versa. Recognise when it is possible to use formulae for area and volume of shapes. Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm3) and cubic metres (m3), and extending	Draw 2-D shapes using given dimensions and angles. Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons. Recognise, describe and build simple 3-D shapes, including making nets.

						to other units (for example, mm3 and km3).	
Y6 Measure	Length & Perimeter					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. Convert between miles and kilometres.	
	Mass						
	Time						
Y6 Statistics						Interpret and construct pie charts and line graphs and use these to solve problems. Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius. Calculate and interpret the mean as an average.	

Y6 Algebra			Generate and describe linear number sequences. Use simple formulae. Find pairs of numbers that satisfy an equation with two unknowns. Express missing number problems algebraically. Enumerate possibilities of combinations of two variables.			
Y6 Ratio & Proportion				Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts. Solve problems involving similar shapes where the scale factor is known or can be found. Solve problems involving the calculation of percentages (for example, of measures, and such as 15% of 360) and the use of percentages for comparison.		