			Counting			
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Verbally count beyond 20, recognising the pattern of the counting system	Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number			Count backwards through zero to include negative numbers	Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero	Use negative numbers in context, and calculate intervals across zero
Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally	Count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens	Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward	Count from 0 in multiples of 4, 8, 50 and 100	Count in multiples of 6, 7, 9, 25 and 1000	Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000	
Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity	Given a number, identify one more and one less		Find 10 or 100 more or less than a given number	Find 1000 more or less than a given number		
		L	Comparing Numbers	L	L	
Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity;	Use the language of: equal to, more than, less than (fewer), most, least	Compare and order numbers from 0 up to 100; use and = signs	Compare and order numbers up to 1000	Order and compare numbers beyond 1000	Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit	Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit
		Identifying, re	presenting and estimatir	ng numbers		
Subitise (recognise quantities without counting) up to 5	Identify and represent numbers using objects and pictorial representations including the number line	Identify, represent and estimate numbers using different representations, including the number line	Identify, represent and estimate numbers using different representations	Identify, represent and estimate numbers using different representations		
Have a deep understanding of number to 10, including the composition of each number						

		Reading and writing numbers	s (including Roman Numerals	5)	
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Read and write numbers	Read and write numbers to	Read and write numbers up	Read Roman numerals to	Read, write, order and	Read, write, order and
from 1 to 20 in numerals and	at least 100 in numerals and	to 1000 in numerals and in	100 (I to C) and know that	compare numbers to at least	compare numbers up to 10
words	in words	words	over time, the numeral	1 000 000 and determine the	000 000 and determine the
			system changed to include	value of each digit	value of each digit
			the concept of zero and		
			place value.		
				Read Roman numerals to	
				1000 (M) and recognise	
				years written in Roman	
				numerals.	
		Understandir	ng Place Value		
	Recognise the place value of	Recognise the place value of	Recognise the place value of	Read, write, order and	Read, write, order and
	each digit in a two-digit	each digit in a three-digit	each digit in a four-digit	compare numbers to at least	compare numbers up to 10
	number (tens, ones)	number (hundreds, tens,	number (thousands,	1 000 000 and determine the	000 000 and determine the
		ones)	hundreds, tens, and ones)	value of each digit	value of each digit
		Roui	nding		
			Round any number to the	Round any number up to 1	Round any whole number to
			nearest 10, 100 or 1000	000 000 to the nearest 10,	a required degree of
				100, 1000, 10 000 and 100	accuracy
				000	
				That involve all of the above	
		-	Solving		
	Use place value and number	Solve number problems and	Solve number and practical	Solve number problems and	Solve number and practical
	facts to solve problems	practical problems involving	problems that involve all of	practical problems	problems that involve all of
		these ideas.	the above and with		the above.
			increasingly large positive		
			numbers		

Maths Progression Ladder: Addition and Subtraction

			Number bonds			
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.	Represent and use number bonds and related subtraction facts within 20	recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100				
			Mental Calculation		-	
	Add and subtract one- digit and two-digit numbers to 20, including zero	 Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: A two-digit number and ones a two-digit number and tens two two-digit numbers Adding three one- digit numbers 	 Add and subtract numbers mentally, including: A three-digit number and ones A three-digit number and tens Three-digit number and hundreds 		Add and subtract numbers mentally with increasingly large numbers	Perform mental calculations, including with mixed operations and large numbers
	Read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs	Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot				Use their knowledge of the order of operations to carry out calculations involving the four operations

	Written Methods								
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
Read, write and interpret mathematical statements involving addition (+), Subtraction (–) and equals (=) signs		Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction	Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate	Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)					
	·	Inverse operations, estima	ating and checking answers	•					
	Recognise and use the inverse relationship between addition N and subtraction and use this to check calculations and solve missing number problems.	Estimate the answer to a calculation and use inverse operations to check answer	Estimate and use inverse operations to check answers to a calculation	Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy	Use estimation to check answers to calculations and determine, in the context pf a problem, levels of accuracy				

	Problem Solving								
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity	Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = -9.	 Solve problems with addition and subtraction: Using concrete objects and pictorial representations, including those involving numbers, quantities and measures Applying their increasing knowledge of mental and written methods 	Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.	Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.	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			

Maths Progression Ladder: Multiplication and Division

		Mul	tiplication and divisions	facts		
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally	Count in multiples of twos, fives and tens	Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward	Count from 0 in multiples of 4, 8, 50 and 100	Count in multiples of 6, 7, 9, 25 and 1000	Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000	
		Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	Recall multiplication and division facts for multiplication tables up to 12 × 12		
		•	Mental calculation			•
			Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods	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	Multiply and divide numbers mentally drawing upon known facts	Perform mental calculations, including with mixed operations and large numbers
		Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot		Recognise and use factor pairs and commutativity in mental calculations	Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	

		Written o	alculation		
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs	Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods	Multiply two-digit and three- digit numbers by a one-digit number using formal written layout	Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two- digit numbers	Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication
					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 one-digit number using the formal written method of short division and interpret remainders appropriately for 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

	Propertie	es of numbers: multiples	, factors, primes, square and cub	e numbers	
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			Recognise and use factor	Identify multiples and	Identify common factors,
			pairs and commutativity in	factors, including finding all	common multiples and prime
			mental calculations	factor pairs of a number, and	numbers
				common factors of two	
				numbers	
				Know and use the vocabulary	
				of prime numbers, prime	
				factors and composite	
				(nonprime) numbers	
				Establish whether a number	
				up to 100 is prime and recall	
				prime numbers up to 19	
				Recognise and use square	
				numbers and cube numbers,	
				and the notation for squared	
				² and cubed ³	
		Orde	r of operations	1	
					Use their knowledge of the
					order of operations to carry
					out calculations involving the
					four operations
		Inverse operations, es	stimating and checking answers	1	
			Estimate and use inverse		Use estimation to check
			operations to check answers		answers to calculations and
			to a calculation		determine, in the context of a
					problem, an appropriate
					degree of accuracy.

			Problem solving			
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.	Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher	Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.	Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.	Solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.	Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes	Solve problems involving addition, subtraction, multiplication and division
					Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign Solve problems involving	
					by simple fractions and problems involving simple rates.	

Maths Progression Ladder: Fractions including decimals and percentages

		Counting in fr	actional steps		
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		Count up and down in tenths	Count up and down in hundredths		
		Recognisin	g fractions	•	
Recognise, find and name a half as one of two equal parts of an object, shape or quantity	Recognise, find, name and write fractions ½, ¼, 2/4 ¾ of a length, shape, set of objects or quantity	Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators	Recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten	iding an object thousandths and relate them	
		Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10			
Recognise, find and name a		Recognise and use fractions			
quarter as one of four equal		as numbers: unit fractions			
parts of an object, shape or		and non-unit fractions with			
quantity.		small denominators			
		Comparin	g fractions		
		Compare and order unit fractions, and fractions with the same denominators		Compare and order fractions whose denominators are all multiples of the same number	Compare and order fractions, including fractions > 1
		Comparing	g Decimals	•	
			Compare numbers with the same number of decimal places up to two decimal places	Read, write, order and compare numbers with up to three decimal places	Identify the value of each digit in numbers given to three decimal places
		Rounding inclu		·	
			Round decimals with one decimal place to the nearest whole number	Round decimals with two decimal places to the nearest whole number and to one decimal place	Solve problems which require answers to be rounded to specified degrees of accuracy

	E	quivalence (including fractio	ns, decimals and percentage	s)	
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Write simple fractions for example, ½ of 6 = 3 and recognise the equivalence of 2/4 and ½ .	Recognise and show, using diagrams, equivalent fractions with small denominators	Recognise and show, using diagrams, families of common equivalent fractions	Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths	Use common factors to simplify fractions; use common multiples to express fractions in the same denomination
			Recognise and write decimal equivalents of any number of tenths or hundredths Recognise and write decimal equivalents to ¼, ½, ¾	Read and write decimal numbers as fractions [for example, 0.71 = 71/100] Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 8 3]
				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	Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.
		Addition and subt	raction of fractions		
		Add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7]	Add and subtract fractions with the same denominator	Add and subtract fractions with the same denominator and denominators that are multiples of the same number	Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
				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]	

		Multiplication a	nd division of fractions		
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
				Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$] Divide proper fractions by
					whole numbers [for example, 1/3 ÷ 2 = 1/6]
		Multiplication a	nd division of decimals		
					Multiply one-digit numbers with up to two decimal places by whole numbers
			Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths		Multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places
					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
					Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8]
					Use written division methods in cases where the answer has up to two decimal places

	Problem solving								
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
		Solve problems that involve all of the above	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	Solve problems involving number up to three decimal places					
			Solve simple measure and money problems involving fractions and decimals to two decimal places.	Solve problems which require knowing percentage and decimal equivalents of 2 1,41,51,52,54 and those fractions with a denominator of a multiple of 10 or 25.					

Maths Progression Ladder: Ratio and Proportion

	ents only appear in year 6 but s				
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
					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 the
					calculation of percentages
					[for example, of measures,
					and such as 15% of 360] and
					the use of percentages for
					comparison
					Solve problems involving
					similar shapes where the
					scale factor is known or can
					be found
					Solve problems involving
					unequal sharing and
					grouping using knowledge of
					fractions and multiples

Maths Progression Ladder: Measurement

			Comparing and estimating			
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	 Compare, describe and solve practical problems for: Lengths and heights [e.g. Long/short, longer/shorter, tall/short, double/half] Mass/weight [e.g. Heavy/light, heavier than, lighter than] Capacity and volume [e.g. Full/empty, more than, less than, half, half full, quarter] Time [e.g. Quicker, slower, earlier, later] 	Compare and order lengths, mass, volume/capacity and record the results using >, < and =	Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)	Estimate, compare and calculate different measures, including money in pounds and pence	Estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity [for example, using water	Calculate, estimate and compare volume of cubes and cuboids using standard units, Including cubic centimetres (cm3) and cubic metres (m3), and extending to other units [for example, mm3 and km3
	laterj	Con	nparing and estimating with	time		
	Sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]	Compare and sequence intervals of time	Compare durations of events [for example to calculate the time taken by particular events or tasks]			
			Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight			

	Measuring and calculating money								
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
	Recognise and know the value of different denominations of coins and notes	Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value	Add and subtract amounts of money to give change, using both £ and p in practical contexts	Estimate, compare and calculate different measures, including money in pounds and pence					
		Find different combinations of coins that equal the same amounts of money							
		Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change							

	Measuring and calculating								
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
	 Measure and begin to record the following: Lengths and heights Mass/weight Capacity and volume Time (hours, minutes, seconds) 	Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels	Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (I/mI	Estimate, compare and calculate different measures, including money in pounds and pence	Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling	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			
			Measure the perimeter of simple 2-D shapes	Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres	Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres	Recognise that shapes with the same areas can have different perimeters and vice Versa			
				Find the area of rectilinear shapes by counting squares	Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm2) and square metres (m2) and	Recognise when it is possible to use formulae for area and volume of shapes			
					estimate the area of irregular shapes]	Calculate the area of parallelograms and triangles			

		Telling	the time		
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.	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	Tell and write the time from an analogue clock, including using roman numerals from i to xii, and 12-hour and 24- hour clocks	Read, write and convert time between analogue and digital 12- and 24-hour clocks		
		Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight			
Recognise and use language relating to dates, including days of the week, weeks, months and years	Know the number of minutes in an hour and the number of hours in a day	Know the number of seconds in a minute and the number of days in each month, year and leap year			
			Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.	Solve problems involving converting between units of time	
	•	Conv	erting		•
	Know the number of minutes in an hour and the number of hours in a day	Know the number of seconds in a minute and the number of days in each month, year and leap year	Convert between different units of measure [for example, kilometre to metre; hour to minute]	Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)	Solve problems involving the calculation and conversion of units of measure, using Decimal notation up to three decimal places where appropriate
				Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints	Convert between miles and kilometres

		Ident	ifying shapes and their prop	erties		
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Recognise and name common 2-D and 3-D shapes, including: * 2-D shapes [e.g. Rectangles (including squares), circles and triangles] 3- D shapes [e.g. Cuboids (including cubes), pyramids and spheres].	Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line		Identify lines of symmetry in 2-D shapes presented in different orientations	Identify 3-D shapes, including cubes and other cuboids, from 2-D representations	Recognise, describe and build simple 3-D shapes, including making nets (appears also in Drawing and Constructing)
		Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces				Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius
		Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]				
			Drawing and constructing			
			Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them	Complete a simple symmetric figure with respect to a specific line of symmetry	Draw given angles, and measure them in degrees (o)	Draw 2-D shapes using given dimensions and angles
						Recognise, describe and build simple 3-D shapes, including making nets (appears also in Identifying Shapes and Their Properties)

		Comparing a	nd classifying		
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Compare and sort common 2-D and 3- D shapes and everyday objects		Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes	Use the properties of rectangles to deduce related facts and find missing lengths and angles	Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons
				Distinguish between regular and irregular polygons based on reasoning about equal sides and angles	
		An	gles		
		Recognise angles as a property of shape or a description of a turn		Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles	
		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 acute and obtuse angles and compare and order angles up to two right angles by size	Identify: * angles at a point and one whole turn (total 360 o) * angles at a point on a straight line and ½ a turn (total 180 o) * other multiples of 90	Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles
		Identify horizontal and vertical lines and pairs of perpendicular and parallel lines			

		Position, direction	on and movement		
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Describe position, direction and movement, including half, quarter and three- quarter turns.	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)		Describe positions on a 2-d grid as coordinates in the first quadrant Describe movements between positions as translations of a given unit to the left/right and up/down	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	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.
			Plot specified points and draw sides to complete a given polygon		
		Pa	ttern	1	1
	Order and arrange combinations of mathematical objects in patterns and sequences				

Maths Progression Ladder: Statistics

	Interpreting, constructing and presenting data								
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
	Interpret and construct simple pictograms, tally charts, block diagrams and simple tables	Interpret and present data using bar charts, pictograms and tables	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs	Complete, read and interpret information in tables, including timetables	Interpret and construct pie charts and line graphs and use these to solve problems				
	Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity Ask and answer questions about totalling and								
	comparing categorical data	Solving	problems						
		Solve one-step and twostep questions [e.g. 'how many more?' and 'how many fewer?'] using information presented in scaled bar charts and pictograms and tables.	Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.	Solve comparison, sum and difference problems using information presented in a line graph	Calculate and interpret the mean as an average				

Maths Progression Ladder: Algebra

	Equations							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = * - 9 (copied from Addition and Subtraction)	Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems. (copied from Addition and Subtraction)	Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. (copied from Addition and Subtraction) Solve problems, including missing number problems, involving multiplication and division, including integer scaling (copied from Multiplication and Division)		Use the properties of rectangles to deduce related facts and find missing lengths and angles (copied from Geometry: Properties of Shapes)	Express missing number problems algebraically			
	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 (copied from Addition and Subtraction)				Find pairs of numbers that satisfy number sentences involving two unknowns			
Represent and use number bonds and related subtraction facts within 20 (copied from Addition and Subtraction)					Enumerate all possibilities of combinations of two variables			