	A progressi	on in Maths from	Reception to Ye	ar 7	Curtous Responsible Repet Creative Brave
	EYFS	Key Stage one	Lower Key Stage two	Upper Key Stage two	Key Stage three

Place value	<ul> <li>*I understand that when making comparisons a set can have more items, fewer items or the same amount of items as another set</li> <li>*I can show 1, 2 and 3 in different ways.</li> <li>*I understand that as we count, each number is one more than the number before.</li> <li>*I understand as we count back, each number is one less than the previous number.</li> <li>*I can partition a whole number into parts</li> <li>*I can show 9 and 10 in different ways.</li> <li>*I can build and identify numbers to 20 (and beyond) using a range of resources.</li> <li>*I can say what comes before or after a given number.</li> <li>*I can place sequences of numbers in order.</li> </ul>	<ul> <li>Y1 count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number</li> <li>count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens</li> <li>given a number, identify one more and one less</li> <li>use the language of: equal to, more than, less than (fewer), most, least</li> <li>identify and represent numbers using objects and pictorial representations including the number line</li> <li>read and write numbers from 1 to 20 in numerals and words.</li> <li>Y2 count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward</li> <li>compare and order numbers from 0 up to 100; use &lt;, &gt; and</li> </ul>	<ul> <li>Y3 count from 0 in multiples of 4, 8, 50 and 100;</li> <li>find 10 or 100 more or less than a given number</li> <li>compare and order numbers up to 1 000</li> <li>identify, represent and estimate numbers using different representations</li> <li>read and write numbers up to 1 000 in numerals and in words</li> <li>recognise the place value of each digit in a three-digit number (hundreds, tens, ones)</li> <li>solve number problems and practical problems involving these ideas.</li> <li>Y4 count backwards through zero to include negative numbers</li> <li>count in multiples of 6, 7, 9, 25 and 1 000</li> </ul>	<ul> <li>Y5 interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero</li> <li>count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000</li> <li>read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit</li> <li>read Roman numerals to 1 000 (M) and recognise years written in Roman numerals.</li> <li>round any number up to 1 000 000 to the nearest 10, 100, 1 000, 10 000 and 100 000</li> <li>solve number problems and practical problems that involve all of the above</li> <li>Y6 use negative numbers in context, and calculate</li> </ul>	Understand the value of digits in decimals, measure and integers Understand multiples Understand integer exponents and roots Understand and use the unique prime factorisation of a number
		compare and order numbers	count in multiples of 6, 7, 9,	_	

			1	
	different representations,	order and compare numbers	read, write, order and	
	including the number line	beyond 1 000	compare numbers up to	
			10 000 000 and determine	
	read and write numbers to at	identify, represent and	the value of each digit	
	least 100 in numerals and in	estimate numbers using		
	words	different representations	round any whole number to a	
			required degree of accuracy	
	recognise the place value of	read Roman numerals to 100	solve number and practical	
	each digit in a two-digit	(I to C) and know that over	problems that involve all of	
	number (tens, ones)	time, the numeral system	the above	
		changed to include the		
		concept of zero and place		
		value.		
		recognise the place value of		
		each digit in a four-digit		
		number (thousands,		
		hundreds, tens, and ones)		
		round any number to the		
		nearest 10, 100 or 1 000		
		solve number and practical		
		problems that involve all of		
		the above and with		
		numbers		
		the above and with increasingly large positive		

Addition and	*I can show 4 and 5 in different	Y1 represent and use number	Y3 add and subtract numbers	Y5 add and subtract numbers	Understand and use the
	ways	bonds and related subtraction	mentally, including: * a three-	mentally with increasingly	structures that underpin
Subtraction		facts within 20	digit number and ones * a	large numbers	addition and subtraction
	*I can find one more and one less.		0		
		add and subtract one-digit and	three-digit number and tens *		strategies
	<ul> <li>I can find different ways of making</li> </ul>	two-digit numbers to 20,	a three-digit number and	add and subtract whole	
	5	including zero	hundreds	numbers with more than 4	Use the laws and conventions
	*I can combine 2 groups to find how			digits, including using formal	of arithmetic to calculate
	many altogether.	read, write and interpret	add and subtract numbers	written methods (columnar	efficiently
		mathematical statements	with up to three digits, using	addition and subtraction)	
	*I can say which group has more,	involving addition (+),	formal written methods of		
	fewer or the same amount of objects	subtraction (-) and equals (=)	columnar addition and	use rounding to check	
	objects	signs	subtraction	answers to calculations and	
	*I can explore number bonds to 10.			determine, in the context of a	
		solve one-step problems that	estimate the answer to a	problem, levels of accuracy	
	*I know that the quantity of a group	involve addition and subtraction,	calculation and use inverse		
	can be changed by adding more or taking items away.	using concrete objects and pictorial representations, and	operations to check answers	solve addition and	
	taking items away.	missing number problems such		subtraction multi-step	
	*I can use the first, then, now	as 7 = * - 9	solve problems, including	problems in contexts,	
	structure to create mathematical		missing number problems,	deciding which operations	
	stories in meaningful contexts.	Y2 recall and use addition and	using number facts, place	and methods to use and why	
	*l can double a number.	subtraction facts to 20 fluently,	value, and more complex		
	r can double a number.	and derive and use related facts	addition and subtraction	Y6 perform mental	
		up to 100		calculations, including with	
			Y4 add and subtract numbers	mixed operations and large	
		add and subtract numbers using	with up to 4 digits using the	numbers	
		concrete objects, pictorial	formal written methods of		
		representations, and mentally,	columnar addition and	use their knowledge of the	
		including: * a two-digit number	subtraction where	order of operations to carry	
		and ones * a two-digit number and tens * two two-digit	appropriate	out calculations involving the	
		numbers * adding three one-		four operations	
		digit numbers	estimate and use inverse		
			operations to check answers	use estimation to check	
		show that addition of two	to a calculation	answers to calculations and	
		numbers can be done in any		determine, in the context of a	
		order (commutative) and	solve addition and	problem, levels of accuracy.	
				problem, levels of accuracy.	
			subtraction two-step		

	subtraction of one number from another cannot recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems 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	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	
--	---	--	---	--

Multiplication and Division	<ul> <li>*I can sort objects where there are two distinct groups.</li> <li>*I can compare numbers to 5 including equal and unequal groups.</li> <li>*I know how quantities can be distributed equally.</li> <li>*I can share fairly and understand what it means if there is some left over.</li> <li>*I understand that some quantities will share equally into 2 groups and some won't.</li> <li>*I can recognise odd and even numbers.</li> <li>*I can recognise that there is a pattern in odd and even numbers.</li> </ul>	<ul> <li>Y1 count in multiples of twos, fives and tens</li> <li>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</li> <li>Y2 count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward</li> <li>recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers</li> <li>show that multiplication of two numbers can be done in any order (commutative) and division of one number by</li> </ul>	Y3 count from 0 in multiples of 4, 8, 50 and 100 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 that they know, including for two-digit numbers times one- digit numbers, using mental and progressing to formal written methods 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 times one-	Y5 count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 multiply and divide numbers mentally drawing upon known facts 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 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	Understand multiples Understand and use the structures that underpin multiplication and division strategies Understand the concept of multiplicative relationships Understand that multiplicative relationships can be represented in a number of ways and connect and move between those different representations
		division of one number by another cannot calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs solve problems involving multiplication and division, using	digit numbers, using mental and progressing to formal written methods estimate the answer to a calculation and use inverse operations to check answers solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and	short division and interpret remainders appropriately for the context 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	

naterials, arrays, repeated	correspondence problems in	factors and composite (non-
ddition, mental methods, and	which n objects are	prime) numbers
nultiplication and division facts,	connected to m objects	
ncluding problems in contexts		establish whether a number
	Y4 count in multiples of 6, 7, 9,	up to 100 is prime and recall
	25 and 1 000	prime numbers up to 19
	recall multiplication and	recognise and use square
	division facts for	numbers and cube numbers,
	multiplication tables up to 12	and the notation for squared
	× 12	( <sup>2</sup> ) and cubed ( <sup>3</sup> )
	··· <b>···</b>	
	use place value, known and	solve problems involving
	derived facts to multiply and	multiplication and division
	divide mentally, including:	including using their
	multiplying by 0 and 1;	knowledge of factors and
	dividing by 1; multiplying	multiples, squares and cubes
	together three numbers	
	together three humbers	solve problems involving
	recognise and use factor pairs	addition, subtraction,
	and commutativity in mental	multiplication and division
	calculations	and a combination of these,
	calculations	including understanding the
	and the state of the state of the state	meaning of the equals sign
	multiply two-digit and three-	
	digit numbers by a one-digit	solve problems involving
	number using formal written	multiplication and division,
	layout	including scaling by simple
		fractions and problems
	estimate and use inverse	involving simple rates
	operations to check answers to a	
	calculation	
		<mark>Y6</mark> perform mental
	solve problems involving	calculations, including with
	multiplying and adding,	mixed operations and large
	including using the	numbers

	distributive law to multiply wo digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects are connected to m objects 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 whole number using the formal written method of short division where appropriate 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 using the formal written method of long division, and interpret remainders, fractions, or by rounding, as appropriate for the context use written division methods in cases where the answer has up to two decimal places identify common factors, common multiples and prime numbers	
--	---	--

	use common factors to simplify
	fractions; use common multiples
	to express fractions in the same
	denomination
	calculate, estimate and compare
	volume of cubes and cuboids
	using standard units, including
	centimetre cubed (cm <sup>3</sup> ) and cubic
	metres (m <sup>3</sup> ), and extending to
	other units such as $mm^3$ and $km^3$
	use their knowledge of the
	order of operations to carry
	out calculations involving the
	four operations
	use estimation to check
	answers to calculations and
	determine, in the context of a
	problem, levels of accuracy
	solve problems involving
	addition, subtraction,
	multiplication and division
	coluo problems involving similar
	solve problems involving similar
	shapes where the scale factor is
	known or can be found

Fractions	Y1 recognise, find and name a	Y3 count up and down in	Y5 recognise and use	Work interchangeably with
Tactions	half as one of two equal parts	tenths	thousandths and relate them	terminating decimals and
	of an object, shape or		to tenths, hundredths and	their corresponding fractions
	quantity	recognise, find and write	decimal equivalents	20
	quantity	fractions of a discrete set of		
	recognise, find and name a	objects: unit fractions and	compare and order fractions	Compare and order positive
	quarter as one of four equal	non-unit fractions with small	whose denominators are all	and negative integers,
	parts of an object, shape or	denominators	multiples of the same number	decimals and fractions
	quantity	denominators	indupies of the same number	
	quantity	recognise that tenths arise	read, write, order and	Know, understand and use
	V2 Durile should sourt in	from dividing an object into	compare numbers with up to	fluently a range of calculation
	Y2 Pupils should count in	10 equal parts and in dividing	three decimal places	strategies for addition and
	fractions up to 10, starting	one – digit numbers or		subtraction of fractions
	from any number and using	quantities by 10	round decimals with two	
	the1/2 and 2/4 equivalence		decimal places to the nearest	Know, understand and use
	on the number line (Non	recognise and use fractions as	whole number and to one	fluently a range of calculation
	Statutory Guidance)	numbers: unit fractions and	decimal place	strategies for multiplication
	manage find managed	non-unit fractions with small		and division of fractions
	recognise, find, name and	denominators	identify, name and write	
	write fractions 1/3, 1/4, 2		equivalent fractions of a given	Understand that fractions are
	/ 4 and 3 / 4 of a length,	compare and order unit	fraction, represented visually,	an example of a multiplicative
	shape, set of objects or	fractions, and fractions with	including tenths and	relationship and apply this
	quantity	the same denominators	hundredths	understanding to a range of
	urito simple fractions o g 1 /			contexts
	write simple fractions e.g. 1 / 2 of 6 = 3 and recognise the	recognise and show, using	read and write decimal	
	equivalence of 2 / 4 and 1 / 2	diagrams, equivalent fractions	numbers as fractions (e.g.	Understand that ratios are an
		with small denominators	0.71 = 71 / 100 )	example of a multiplicative
			. ,	relationship and apply this
		add and subtract fractions	recognise and use	understanding to a range of
		with the same denominator	thousandths and relate them	contexts
		within one whole (e.g. 5 / 7 +	to tenths, hundredths and	
		1/7=6/7)	decimal equivalents	
		solve problems that involve	recognise the per cent symbol	
		all of the above	(%) and understand that per	
			cent relates to "number of	

<mark>Y4</mark> count up and down in	parts per hundred", and write
hundredths	percentages as a fraction with
	denominator 100 as a decimal
recognise that hundredths	fraction
arise when dividing an object	
by one hundred and dividing	add and subtract fractions
tenths by ten	with the same denominator
	and multiples of the same
compare numbers with the	number
same number of decimal	
places up to two decimal	recognise mixed numbers
places	and improper fractions and
piaces	convert from one form to the
round decimals with one	other and write mathematical
decimal place to the nearest	statements > 1 as a mixed
whole number	number (e.g. 2 / 5 + 4 / 5 = 6 /
whole humber	5 = 11/5
recognise and show, using	5 11/5/
diagrams, families of common	multiply proper fractions and
	mixed numbers by whole
equivalent fractions	numbers, supported by
	materials and diagrams
recognise and write decimal	
equivalents of any number of	solve problems involving
tenths or hundredths	numbers up to three decimal
	places
recognise and write decimal	places
equivalents to 1 / 4 ; 1 / 2 ; 3 /	solve problems which require
4	
	knowing percentage and
add and subtract fractions	decimal equivalents of $1/2$ ,
with the same denominator	1 / 4 , 1 / 5 , 2 / 5 , 4 / 5 and those with a denominator of a
find the effect of dividing a	multiple of 10 or 25.
one- or two-digit number by	
10 and 100, identifying the	
value of the digits in the	

	answer as once togthe and	Vc as use and and an	
	answer as ones, tenths and	Y6 compare and order	
	hundredths	fractions, including fractions	
		>1	
	solve problems involving		
	increasingly harder fractions	identify the value of each digit	
	to calculate quantities, and	in numbers given to three	
	fractions to divide quantities,	decimal places	
	including non-unit fractions		
	where the answer is a whole	solve problems which require	
	number	answers to be rounded to	
		specified degrees of accuracy	
	solve simple measure and	specified degrees of accuracy	
	money problems involving	use common factors to	
	fractions and decimals to two		
	decimal places.	simplify fractions; use	
	decimal places.	common multiples to express	
		fractions in the same	
		denomination	
		associate a fraction with	
		division and calculate decimal	
		fraction equivalents (e.g.	
		0.375) for a simple fraction	
		(e.g. 3 / 8 )	
		recall and use equivalences	
		between simple fractions,	
		decimals and percentages,	
		including in different	
		contexts.	
		add and subtract fractions	
		with different denominators	
		and mixed numbers, using the	
		concept of equivalent	
		fractions	

	multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. $1/4 \times 1/2 = 1/8$ )multiply one-digit numbers with up to two decimal places by whole numbersdivide proper fractions by whole numbers (e.g. $1/3 \div 2$ $= 1/6$ )multiply one-digit numbers with up to two decimal places by whole numbersmultiply one-digit numbers with up to two decimal places by uhole numbersmultiply one-digit numbers with up to two decimal places by uhole numbersmultiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal placesidentify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 where the answers are
	multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places
	associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. 3 /8)

use written division methods
in cases where the answer
has up to two decimal places
Ratio and Proportion (Y6 only)
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.

Algebra	Y1 solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = * - 9 represent and use number bonds and related subtraction	Y3 solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. solve problems, including missing number problems, involving multiplication and division, including integer	<ul> <li>Y5 use the properties of rectangles to deduce related facts and find missing lengths and angles</li> <li>Y6 express missing number problems algebraically</li> <li>find pairs of numbers that satisfy number sentences</li> </ul>	Understand and use the conventions and vocabulary of algebra including forming and interpreting algebraic expressions and equations Simplify algebraic expressions by collecting like terms to maintain equivalence
	facts within 20 sequence events in	scaling <mark>Y4</mark> Perimeter can be	involving two unknowns enumerate all possibilities of	Manipulate algebraic expressions using the distributive law to maintain
	chronological order using language such as: before and after, next, first, today,	expressed algebraically as 2(a + b) where a and b are the dimensions in the same unit.	combinations of two variables use simple formulae	equivalence
	yesterday, tomorrow, morning, afternoon and evening		recognise when it is possible to use formulae for area and	
	Y2 recognise and use the inverse relationship between		volume of shapes generate and describe linear	
	addition and subtraction and use this to check calculations and missing number problems.		number sequences	
	recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100			
	compare and sequence intervals of time			

	order and arrange combinations of		
	mathematical objects in		
	patterns		

	*Loop describe femilier every to in				
Measurement	*I can describe familiar events in order, using the language of time.	Y1 compare, describe and	Y3 compare durations of	Y5 calculate and compare the	Understand the concept of
		solve practical problems for: *	events, for example to	area of squares and	perimeter and use it in a
	*I can compare the weights of two	lengths and heights [e.g.	calculate the time taken by	rectangles including using	range of problem-solving
	objects.	long/short, longer/shorter,	particular events or tasks	standard units, square	situations.
	*	tall/short, double/half] *		centimetres (cm 2) and	
	*I can use balance scales to show which item is lighter or heavier.	mass/weight [e.g. heavy/light,	estimate and read time with	square metres (m 2 ) and	Understand the concept of
	which item is lighter of heavier.	heavier than, lighter than] *	increasing accuracy to the	estimate the area of irregular	area and use it in a range of
	*I can use simple everyday language	capacity and volume [e.g.	nearest minute; record and	shapes	problem-solving situations
	to compare volume and capacity	full/empty, more than, less	compare time in terms of		
	using the terms full, empty, nearly	than, half, half full, quarter] *	seconds, minutes, hours and	estimate volume (e.g. using 1	
	full and nearly empty.	time [e.g. quicker, slower,	o'clock; use vocabulary such	cm 3 blocks to build cubes	
	*I can compare the length of	earlier, later]	as a.m./p.m., morning,	and cuboids) and capacity	
	objects.		afternoon, noon and midnight	(e.g. using water)	
		sequence events in			
	* I can name the days of the week.	chronological order using	measure, compare, add and	use all four operations to	
	* I can order the days of the week.	language [e.g. before and	subtract: lengths	solve problems involving	
	rear order the days of the week.	after, next, first, today,	(m/cm/mm); mass (kg/g);	measure (e.g. length, mass,	
		yesterday, tomorrow,	volume/capacity (I/ml)	volume, money) using	
		morning, afternoon and		decimal notation including	
		evening]	measure the perimeter of	scaling.	
		_	simple 2-D shapes		
		measure and begin to record		measure and calculate the	
		the following: * lengths and	add and subtract amounts of	perimeter of composite	
		heights * mass/weight *	money to give change, using	rectilinear shapes in	
		capacity and volume * time	both £ and p in practical	centimetres and metres	
		(hours, minutes, seconds)	contexts		
				calculate and compare the	
		recognise and know the value	tell and write the time from	area of squares and	
		of different denominations of	an analogue clock, including	rectangles including using	
		coins and notes	using Roman numerals from I	standard units, square	
			to XII, and 12-hour and 24-	centimetres (cm 2) and	
		tell the time to the hour and	hour clocks	square metres (m 2) and	
		half past the hour and draw		estimate the area of irregular	
		the hands on a clock face to	Y4 estimate, compare and	shapes	
		show these times.	calculate different measures,		
	1	1	1		1

recognise and use language relating to dates, including days of the week, weeks, months and years Y2 compare and order lengths, mass, volume/capacity and record the results using >, < and = compare and sequence intervals of time 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 recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value find different combinations of coins that equal the same amounts of money	including money in pounds and pence measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres find the area of rectilinear shapes by counting squares read, write and convert time between analogue and digital 12 and 24-hour clocks solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days convert between different units of measure (e.g. kilometre to metre; hour to minute)	recognise and use square numbers and cube numbers, and the notation for squared ( 2 ) and cubed ( 3 ) solve problems involving converting between units of time convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) solve problems involving converting between units of time understand and use equivalences between metric units and common imperial units such as inches, pounds and pints Y6 calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm 3 ) and cubic metres (m 3 ), and extending to other	
amounts of money		(cm 3 ) and cubic metres (m 3 ), and extending to other	
solve simple problems in a practical context involving		units such as mm 3 and km 3 .	

addition and subtraction of	solve problems involving the
money of the same unit,	calculation and conversion of
including giving change	units of measure, using
	decimal notation up to three
tell and write the time to five	decimal places where
minutes, including quarter	appropriate
past/to the hour and draw	
the hands on a clock face to	recognise that shapes with
show these times.	the same areas can have
	different perimeters and vice
know the number of minutes	versa
in an hour and the number of	
hours in a day.	calculate the area of
	parallelograms and triangles
know the number of minutes	
in an hour and the number of	calculate, estimate and
hours in a day.	compare volume of cubes and
	cuboids using standard units,
	including cubic centimetres
	(cm 3 ) and cubic metres (m 3
	), and extending to other
	units [e.g. mm 3 and km 3 ].
	recognise when it is possible
	to use formulae for area and
	volume of shapes
	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

decimal notation up to three decimal places where appropriate
convert between miles and kilometres

Geometry	*I recognise, continue and build	Y1 recognise and name	Y3 draw 2-D shapes and make	Y5 identify 3-D shapes,	Understand and use
properties of	simple patterns.	common 2-D and 3-D shapes,	3-D shapes using modelling	including cubes and other	translations Understand and
properties of shapes	simple patterns. *I can identify & name 2D shapes and describe similarities and differences *I can name and describe 3D shapes *I can select and rotate shapes to fill a given space.	<ul> <li>common 2-D and 3-D shapes, including:</li> <li>* 2-D shapes [e.g. rectangles (including squares), circles and triangles]</li> <li>* 3-D shapes [e.g. cuboids (including cubes), pyramids and spheres].</li> <li>Y2 identify and describe the properties of 2-D shapes,</li> </ul>	3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them recognise angles as a property of shape or a description of a turn identify right angles,	including cubes and other cuboids, from 2-D representations draw given angles, and measure them in degrees (°) use the properties of rectangles to deduce related facts and find missing lengths and angles	translations Understand and use rotations Understand and use reflections Understand and use enlargements
		properties of 2-D snapes, including the number of sides and line symmetry in a vertical line identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid] compare and sort common 2- D and 3-D shapes and everyday objects	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 Y4 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	distinguish between regular and irregular polygons based on reasoning about equal sides and angles know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles identify: * angles at a point and one whole turn (total 360°) * angles at a point on a straight line and ½ a turn (total 180°) * other multiples of 90° Y6 recognise, describe and build simple 3-D shapes,	
			compare and classify geometric shapes, including	including making nets	

	quadrilaterals and triangles,	(appears also in Drawing and	
	based on their properties and	Constructing)	
	sizes		
		illustrate and name parts of	
	identify acute and obtuse	circles, including radius,	
	angles and compare and	diameter and circumference	
	order angles up to two right	and know that the diameter is	
	angles by size	twice the radius	
		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)	
		compare and classify	
		geometric shapes based on	
		their properties and sizes and	
		find unknown angles in any	
		triangles, quadrilaterals, and	
		regular polygons	
		recognise angles where they	
		meet at a point, are on a	
		straight line, or are vertically	
		opposite, and find missing	
		angles	

Geometry position direction and movement	objects and movem half, quarter quarter turn Y2 use math vocabulary position, din movement and distingu rotation as terms of rig quarter, hal quarter turn anti-clockw order and a combinatio mathematic	hematical to describe irection and including in a straight line uishing between a turn and in ght angles for lf and three- rns (clockwise and vise) describe movements betw positions as translations of given unit to the left/right and up/down plot specified points and de sides to complete a given polygon	shape following a reflection or translation, using the appropriate language, and know that the shape has not changed Y6 describe positions on the	Connect coordinates, equations and graphs\$
---	--	---	--	--

Statistics	interpret and construct simple pictograms, tally charts, block diagrams and simple tables	Y3 interpret and present data using bar charts, pictograms and tables	Y <mark>5</mark> complete, read and interpret information in tables, including timetables	
	ask and answer simple questio 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	fewer?' 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 a line graph Y6 interpret and construct pie charts and line graphs and use these to solve problems calculate and interpret the mean as an average	
		other graphs.		

Кеу	Number One, two, three to twenty and beyond. None Count on/up/to/from/down	Numbers to one hundred, Hundreds,	Numbers to one thousand, tenths,	Powers of ten, numbers to ten	
Vocabulary Be fev Od Va Ad Do (in ma m Od Gr er He Sca Tu Au Ve aft un Sid Frc Mi Sic Frc Ni Sic Fr	Before, after More, less, many, few, fewer, fewest, smaller, smallest Equal to, the same as Odd, even Digit Numeral Compare Order Size Value Between, halfway between, Number line Add, more, plus, make, sum, total, altogether Double Half, halve Equals, is the same (including equals sign) How many more to make? How many more is,,, then,,,? How much more is? Subtract, take away, minus. Odd, even Double, halve Share, share equally Group in pairs Equal groups of Divide, Full, half, empty Holds Container Weigh, weighs, balance Heavy, heavier, heaviest, light, lighter, lightest Scales Time Days of the week: Monday, Tuesday etc. Seasons: Spring, Summer, Autumn, Winter Days, week, month, year, weekend Birthday, holiday Morning, afternoon, evening, night Bedtime, Over, under, underneath, above, below, top, bottom, side On, in, outside, inside In front, behind Front, back Before, after Beside, next to Middle Up, down, forwards, backwards. Sideways Close, far Through Towards, away from Side, roll, turn, Sort Cube, cuboid, pyramid, sphere, cone, cylinder, circle, triangle, square Shape Flat, curved, straight, round Solid Corner Face, side Make, build, draw, Whole Equal One half, Listen, join in Say, think, imagine, remember Start from Look at, point to Put What comes next? Find, use, make, build Tell me, describe, pick out, talk about, explain, show me Read, write Tick, draw a line, ring Cost Count, work out Number line, number track, number square, number cards,	Partition, Recombine, More/less, Quarter past/to, Half past/to, hour, o'clock, m/km, g/kg, ml/l, Temperature (degrees), rotation, clockwise, anticlockwise, straight line, ninety degree turn, right angle, size, bigger, larger, smaller, symmetrical, line of symmetry, fold, match, mirror line, reflection, pattern, repeating pattern, three quarters, one third, a third, equivalence, equivalent, count, tally, sort, vote, graph, block graph, pictogram, represent, group, set, list, table, label, title, most popular, most common, least popular, least common, predict, describe the pattern, describe the rule, find, find all, find different, investigate, Number bonds Inverse Near doubles Difference between How many fewer isthan? How much less is? Once, twice, three times. Five times. Count in tens (forwards from/ backwards from) How many times? Lots of, groups of Multiple of, times, multiply, multiply by Repeated addition Array, row, column Group in twos, threes, etc Divided by, left, left over, Long, short, tall, high Low, wide, narrow, deep, shallow, thick, thin, left, right, whole turn, half turn	hundredths, decimal places, round,	million, efficient written method,	
			negative integers, count through	order of operations, factor pairs,	
			zero, roman numerals, column	composite numbers, prime number,	
			addition and subtraction, product,	prime factors, square number, cubed	
			multiples of four, eight, fifty and one	number, formal written method,	
			hundred, scale up, multiplication	common factors, common multiples,	
			facts, division facts, inverse, derive,	volume, imperial units, metric units,	
			leap year, twelve hour/twenty four	reflex angle, dimensions, four	
			hour clock, greater/less than ninety	quadrants (for coordinates), regular	1
			degrees, orientation, coordinates,	and irregular polygons, vertically	
			translation, quadrant, x-axis, y-axis,	opposite (angles), circumference,	ł
			perimeter and area, horizontal,	radius, diameter, proper fractions,	
			vertical, perpendicular and parallel	improper fractions, mixed numbers,	
			lines, quadrilaterals, triangles, right	percentage, half, quarter, fifth, two	
			angle, acute and obtuse angles,	fifths, four fifths, ratio, proportion,	
			numerator, denominator, unit	degree of accuracy, simplify, linear	
			fraction, non-unit fraction, compare	number sequence, substitute,	
			and order, equivalent decimals and	variables, symbol, known values,	
			fractions, chart, bar chart, frequency	mean, pie chart, construct	
			table, carroll diagram, venn diagram,		l
			axis, axes, diagram, continuous data,		l l
	dinnertime, playtime Today, yesterday,		line graph		
	tomorrow Before, after, next, last Quickest, fastest, slowest Clock Once First, second, third				
	Estimate Too many, too few Length, height				ł
	Longer, longest, shorter, shortest, taller, tallest, higher, highest Money, coin, penny,				ł
	pence, pound, price, cost, buy, sell, spend, spent, pay, change How much? How many?				l
	Total, Counters, cubes, blocks, die, dice,				1
	dominoes, pegs, peg board Same way, different way In order, in a different order				
	•	•	-		· · · · · · · · · · · · · · · · · · ·