

Maths Curriculum 2023 - 2024



	Autumn	Spring	Summer
	Number: Place Value Count to ten, forwards and backwards, beginning with 0 or 1, or from any given	Number: Addition and Subtraction Represent and use number bonds and related subtraction facts within 20	Number: Multiplication and Division Count in multiples of twos, fives and tens.
	Count, read and write numbers to 10 in numerals and words.	Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs.	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.
Yr1	Given a number, identify one more or one less.	Add and subtract one-digit and two-digit numbers to 20, including zero.	Number: Fractions
	Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least.	Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7= \broksymbol{\Box} - 9$	Recognise, find and name a half as one of two equal parts of an object, shape or quantity.
	Number: Addition and Subtraction Represent and use number bonds and related subtraction facts within 10	<u>Place Value</u> Count to 50 forwards and backwards, beginning with 0 or 1, or from any	Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.
	Read, write and interpret mathematical statements involving addition (+),	number.	Compare, describe and solve practical problems for: lengths and heights (for example, long/short, longer/shorter, tall/short, double/half)
	Add and subtract one digit numbers to 10, including zero.	Given a number, identify one more or one less.	Compare, describe and solve practical problems for: mass/weight [for example, heavy/light, heavier than, lighter than]; capacity and volume [for example, full/sector problems has head head for the problem is the problem in the problem is the prob
	Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations and missing number problems.	Identify and represent numbers using objects and pictorial representations including the number line, and use the language of:	Geometry: position and direction Describe position, direction and movement, including whole, half, quarter and three quarter turns
	Geometry: Shape Recognise and name common 2-D shapes, including: (for example, rectangles (including courses) circles and triangles)	Count in multiples of twos, fives and tens.	Number: Place Value Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number
	Recognise and name common 3-D shapes, including: (for example, cuboids (including cubes) pyramids and soberes)	Measurement: Length and Height Measure and begin to record lengths and heights.	Count, read and write numbers to 100 in numerals.
	Number: Place Value	Compare, describe and solve practical problems for: lengths and heights (for example, long/short, longer/shorter, tall/short, double/half)	Given a number, identify one more and one less.
	count to twenty, forwards and backwards, beginning with 0 or 1, from any given number.	Measurement: Weight and Volume Measure and begin to record mass/weight, capacity and volume.	including the number line, and use the language of: equal to, more than, less than, most, least.
	Count, read and write numbers to 20 in numerals and words. Given a number, identify one more or one less.	Compare, describe and solve practical problems for mass/weight: [for example, heavy/light, heavier than, lighter than]; capacity and volume	Measurement: Money Recognise and know the value of different denominations of coins and notes.
	Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least.	[for example, full/empty, more than, less than, half, half full, quarter]	Measurement: Time Sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening.
			Recognise and use language relating to dates, including days of the week, weeks, months and years.
			Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.
			Compare, describe and solve practical problems for time [for example, quicker, slower, earlier, later]

			Measure and begin to record time (hours, minutes, seconds)
	Number – Place Value	Multiplication and Division	Position and Direction
	Read and write numbers to at least 100 in numerals and in words.	Recall and use multiplication and division facts for the 2, 5 and 10 times tables,	Use mathematical vocabulary to describe position, direction and movement
		including recognising odd and even numbers.	including movement in a straight line and distinguishing between rotation as a
	Recognise the place value of each digit in a two digit number (tens, ones)		turn and in terms of right angles for quarter, half and three-quarter turns
		Calculate mathematical statements for multiplication and division within the	(clockwise and anti-clockwise).
V	Identify, represent and estimate numbers using different representations	multiplication tables and write them using the multiplication (×), division (\div)	
Yr2	including the number line.	and equals (=) signs.	Order and arrange combinations of mathematical objects in patterns and
			sequences
	Compare and order numbers from 0 up to 100; use <, > and = signs.	Solve problems involving multiplication and division, using materials, arrays,	
		repeated addition, mental methods and multiplication and division facts,	Problem solving and Efficient methods.
	Ose place varue and number facts to solve problems.	including problems in contexts.	Measurement: Time Tell and write the time to five minutes, including quarter
	Count in steps of 2, 3 and 5 from 0, and in tens from any number forward and	Show that the multiplication of two numbers can be done in any order	net/to the hour and draw the hands on a clock face to show these times
	backward	(commutative) and division of one number by another cannot	past/to the nour and draw the namus on a clock lace to show these times.
	bulkwurd.		Know the number of minutes in an hour and the number of hours in a day.
	Number – Addition and Subtraction	Statistics	
		Interpret and construct simple pictograms, tally charts, block diagrams and	Compare and sequence intervals of time.
	Recall and use addition and subtraction facts to 20 fluently, and derive and use	simple tables.	
	related facts up to 100.		Measurement: Mass, Capacity and Temperature
		Ask and answer simple questions by counting the number of objects in each	Choose and use appropriate standard units to estimate and measure
	Add and subtract numbers using concrete objects, pictorial representations,	category and sorting the categories by quantity.	length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity
	and mentally, including: a two-digit number and ones; a two-digit number and		(litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers
	tens; two two-digit numbers; adding three one-digit numbers.	Ask and answer questions about totalling and comparing categorical data.	and measuring vessels
	Show that the addition of two numbers can be done in any order	Commuter and the of theme	Compare and order lengths, mass, volume/capacity and record the results
	(commutative) and subtraction of one number if on another carnot.	dependency - properties of shape	using >, < ditu =
	Solve problems with addition and subtraction: using concrete objects and	sides and line symmetry in a vertical line	Investigations
	pictorial representations including those involving numbers, quantities and	sides and the synthetry in a vertical ine.	
	measures: applying their increasing knowledge of mental and written methods.	Identify and describe the properties of 3-D shapes, including the number of	
		edges, vertices and faces.	
	Recognise and use the inverse relationship between addition and subtraction		
	and use this to check calculations and solve missing number problems.	Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a	
		cylinder and a triangle on a pyramid.]	
	Measurement: Money		
	Recognise and use symbols for pounds (£) and pence (p); combine amounts to	Compare and sort common 2-D and 3-D shapes and everyday objects.	
	make a particular value.		
		Number – fractions	
	Find different complitations of coms that equal the same amounts of money.		
	Solve simple problems in a practical context involving addition and subtraction	15	
	of money of the same unit, including giving change.	, 14	
	, ,	, 2 4	
	Multiplication and Division	and 3 4	
	Recall and use multiplication and division facts for the 2, 5 and 10 times tables,	of a length, shape, set of objects or quantity.	
	including recognising odd and even numbers.		
		Write simple fractions for example,	
	Calculate mathematical statements for multiplication and division within the	12	
	multiplication tables and write them using the multiplication (x), division (\div)	of 6 = 3	
	and equais (=) sign.	and recognise the equivalence of	
	Solve problems involving multiplication and division, using materials, errors	24 and 12	
	repeated addition mental methods and multiplication and division facts		
	including problems in contexts	Measurement: length and height	
	Show that the multiplication of two numbers can be done in any order	Choose and use appropriate standard units to estimate and measure	
	(commutative) and division of one number by another cannot.	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	
		Compare and order lengths, mass, volume/capacit y and record the results using >, < and	
	Number – Place Value	Number – multiplication and division	Number – fractions
	identity, represent and estimate numbers using different representations.	tables.	denominators.
	Find 10 or 100 more or less than a given number		
	Percentice the place value of each digit in a three-digit number (hundreds, tens	Write and calculate mathematical statements for multiplication and division	Compare and order unit fractions, and fractions with the same denominators.
	ones).	times one-digit numbers, using mental and progressing to formal written methods	Add and subtract fractions with the same denominator within one whole [for example $5.7 \pm 1.7 = 6.7$]
Vr2	Compare and order numbers up to 1000	includs.	
115	Dead and write surrelease to 1000 is surrently and is used.	Solve problems, including missing number problems, involving multiplication	Solve problems that involve all of the above.
	Read and write numbers up to 1000 in numerals and in words.	problems in which n objects are connected to m objectives.	Measurement – time
	Solve number problems and practical problems involving these ideas.		Tell and write the time from an analogue clock, including using Roman
	Count from 0 in multiples of 4, 8, 50 and 100	<u>Measurement-money</u> Add and subtract amounts of money to give change, using both f and n in	numerals from I to XII and 12-hour and 24-hour clocks.
		practical contexts	Estimate and read time with increasing accuracy to the nearest minute.
	Number – Addition and Subtraction	Statistics	Decord and compare time in terms of seconds, minutes and hours
	a three-digit number and tens; a three digit number and hundreds.	Interpret and present data using bar charts, pictograms and tables.	Record and compare time in terms of seconds, minutes and nodis.
	Add and subtract numbers with up to three digits, using formal written	Solve one-step and two-step questions [for example, 'How many more?' and	Use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight.
	methods of columnar addition and subtraction.	'How many fewer?'] using information presented in scaled bar charts and nictograms and tables	Know the number of seconds in a minute and the number of days in each
	Estimate the answer to a calculation and use inverse operations to check		month, year and leap year.
	answers.	Measurement – length and perimeter	
	Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.	volume/capacity (I/ml).	particular events or tasks].
		Measure the perimeter of simple 2D shapes.	Geometry – properties of shape
	Number – Multiplication and Division	Number – fractions	Recognise angles as a property of shape or a description of a turn.
	Count from 0 in multiples of 4, 8, 50 and 100	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	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
	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication	Decoration and use fractions as numbers, unit fractions and re	angles are greater than or less than a right angle.
		with small denominators.	Identify horizontal and vertical lines and pairs of perpendicular and parallel
	Write and calculate mathematical statements for multiplication and division		lines.
	using the multiplication tables they know, including for two-digit numbers	Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators	Draw 2-D shapes and make 3D shapes using modelling materials
	methods.	Solve problems that involve all of the above	Recognise 3-D shapes in different orientations and describe them
	Solve problems, including missing number problems, involving multiplication		resonates a shapes in anterent orientations and describe them.
	and division, including positive integer scaling problems and correspondence		Measurement – mass and capacity
	problems in which it objects are connected to in objectives.		volume/capacity (I/ml).

	<u>Number – Place Value</u>	Number – multiplication and division	Decimals
		Recall and use multiplication and division facts for multiplication tables up to	Compare numbers with the same number of decimal places up to two decimal
	Count in multiples of 6, 7, 9, 25 and 1000	12 x 12	nlaces
	count in multiple 3 of 0, 7, 5. 25 and 1000.	12 ~ 12.	places.
	Find 1000 more or less than a given number.	Use place value, known and derived facts to multiply and divide mentally,	Round decimals with one decimal place to the nearest whole number.
		including: multiplying by 0 and 1; dividing by 1; multiplying together three	
	Recognise the place value of each digit in a four digit number (thousands	numbers	Perognise and write decimal equivalents to 1.4, 1.2 and 3.4
	Recognise the place value of each digit in a four digit frumber (thousands,	numbers.	Recognise and write decimal equivalents to 14, 12 and 54
	hundreds, tens and ones)		
Vr 1		Recognise and use factor pairs and commutativity in mental calculations.	
Y14	Order and compare numbers beyond 1000		Find the effect of dividing a one or two digit number by 10 or 100, identifying
	· · · · · · · · · · · · · · · · · · ·	Multiply two digit and three digit numbers by a one digit number using formal	the value of the digits in the answer as ones, tenths and hundredths
		waitipiy two algit and three algit numbers by a one algit number asing format	the value of the digits in the answer as ones, tenths and hundredths
	Identify, represent and estimate numbers using different representations.	written layout.	
			Measurement- Money
	Round any number to the nearest 10, 100 or 1000	Solve problems involving multiplying and adding, including using the	Estimate, compare and calculate different measures, including money in
		distributive law to multiply two digit numbers by one digit, integer scaling	nounds and nance
		distributive law to findicipity two digit numbers by one digit, integer scaling	poullus and pence.
	Solve number and practical problems that involve all of the above and with	problems and harder correspondence problems such as n objects are	
	increasingly large positive numbers.	connected to m objects.	Solve simple measure and money problems involving fractions and decimals to
			two decimal places
	Count backwards through zero to include pegative numbers	Massurement-Area	
	Count backwards thi ough zero to include negative numbers.	The sure of the su	
		Find the area of rectilinear shapes by counting squares.	lime
	Read Roman numerals to 100 (I to C) and know that over time, the numeral		Convert between different units of measure [for example, kilometre to metre;
	system changed to include the concept of zero and place value	Fractions	hour to minute]
	system enangea to menade the concept of zero and place funder	Desegnics and show using diagrams families of sommon againstant fractions	nour to minutej
		Recognise and show, using diagrams, families of common equivalent fractions.	
	Number- Addition and Subtraction		Read, write and convert time between analogue and digital 12- and 24-hour
	Add and subtract numbers with up to 4 digits using the formal written methods	Count up and down in hundredths; recognise that hundredths arise when	clocks.
	of columnar addition and subtraction where appropriate.	dividing an object by one hundred and dividing tenths by ten.	
			Solve problems involving converting from hours to minutes: minutes to
			Solve problems involving converting from hours to minutes, minutes to
	Estimate and use inverse operations to check answers to a calculation.	Solve problems involving increasingly harder fractions to calculate quantities,	seconds; years to months; weeks to days.
		and fractions to divide quantities, including non-unit fractions where the	
	Solve addition and subtraction two step problems in contexts, deciding which	answer is a whole number	Statistics
	operations and methods to use and why		Interpret and present discrete and continuous data using appropriate graphical
	operations and methods to use and why.		interpret and present discrete and continuous data dsing appropriate graphical
		Add and subtract fractions with the same denominator.	methods, including bar charts and time graphs.
	Measurement: Length and Perimeter		
	Measure and calculate the perimeter of a rectilinear figure (including squares)	Decimals	Solve comparison, sum and difference problems using information presented
	in centimetres and metres	Recognise and write decimal equivalents of any number of tenths or	in bar charts nictograms tables and other graphs
		hundra dtha	
		nunureutiis.	
	Convert between different units of measure [for example, kilometre to metre]		Geometry: Properties of shape
		Find the effect of dividing a one or two digit number by 10 or 100, identifying	Identify acute and obtuse angles and compare and order angles up to two right
	Number – Multiplication and Division	the value of the digits in the answer as ones, tenths and hundredths	angles by size.
	Recall and use multiplication and division facts for multiplication tables up to	J	
	12×12.	Solve simple measure and money problems involving fractions and decimals to	Compare and classify geometric shapes, including quadrilaterals and triangles,
		two decimal places.	based on their properties and sizes.
	Count in multiples of 6, 7, 9. 25 and 1000		
		Convert between different units of measure [for example, kilometre to metre]	Identify lines of symmetry in 2-D shapes presented in different orientations
	Use place value, known and derived facts to multiply and divide montally.	convert between amerent anits of measure [for example, knometre to metre]	racitity intes of symmetry in 2 b shapes presenced in unreferre orientations.
	Ose place value, known and derived facts to multiply and divide mentality,		
	including: multiplying by 0 and 1; dividing by 1; multiplying together three		Complete a simple symmetric figure with respect to a specific line of symmetry.
	numbers.		
			Geometry- Position and Direction
	Solve problems involving multiplying and adding including using the		Describe positions on a 2-D grid as coordinates in the first quadrant
	distributive low to multiply two disit purchase by and during using the		beschoe positions on a 2 b grid as cool dinates in the mist quadrant.
	distributive law to multiply two digit numbers by one digit, integer scaling		
	problems and harder correspondence problems such as n objects are		Plot specified points and draw sides to complete a given polygon.
	connected to m objects.		
			Describe movements between positions as translations of a given unit to the
			left/right and un/ down
			iery ngheana apy aowin.

	Number – Place Value Read, write, order and compare numbers to at least 1000000 and determine the value of each digit	<u>Number – Multiplication and Division</u> Multiply and divide numbers mentally drawing upon known facts.	<u>Number: Decimals</u> 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.
Yr5	Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers including through zero. Round any	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.	Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.
	number up to 1000000 to the nearest 10, 100, 1000, 10000 and 100000 Solve number problems and practical problems that involve all of the above.	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 and Angles Identify 3D shapes, including cubes and other cuboids, from 2D representations.
	Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.	Number: Fractions Compare and order fractions whose denominators are multiples of the same number	Use the properties of rectangles to deduce related facts and find missing lengths and angles.
	Number- Addition and Subtraction Add and subtract numbers mentally with increasingly large numbers.	Identify, name and write equivalent fractions of a given fraction, represented visually including tenths and hundredths.	Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.
	Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) Use rounding to check answers to calculations and determine. in the context of a problem.	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.
	levels of accuracy.	example 2 5 + 4 5 = 6 5 = 1 1 5]	Draw given angles, and measure them in degrees (o)
	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.	Add and subtract fractions with the same denominator 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 $\%$ a turn (total 180o) other multiples of 90o
	Statistics Solve comparison, sum and difference problems using information presented in a line graph.	Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.	Geometry- position and 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
	Complete, read and interpret information in tables including timetables.	Read and write decimal numbers as fractions [for example 0.71 = 71 100]	not changed.
	<u>Number – multiplication and division</u> Multiply and divide numbers mentally drawing upon known facts.	Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.	<u>Measurement- converting units</u> Convert between different units of metric measure [for example, km and m; cm and m; cm and mm; g and kg; I and mI]
	Multiply and divide whole numbers by 10, 100 and 1000.	Number: Decimals and Percentages Read, write, order and compare numbers with up to three decimal places.	Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.
	Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.	Recognise and use thousandths and relate them to tenths, hundredths and	Solve problems involving converting between units of time.
	Recognise and use square numbers and cube numbers and the notation for squared (2) and cubed (3)	decimal equivalents. Round decimals with two decimal places to the nearest whole number and to	Measures Volume Estimate volume [for example using 1cm3 blocks to build cuboids (including
	Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes.	Solve problems involving number up to three decimal places.	Use all four operations to solve problems involving measure.
	Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.	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.	
	Establish whether a number up to 100 is prime and recall prime numbers up to 19	Solve problems which require knowing percentage and decimal equivalents of 12, 14, 15, 25, 45 and those fractions with a denominator of a multiple of	
	Perimeter and Area Measure and calculate the perimeter of composite rectilinear shapes in cm and m.	10 or 25.	
	Calculate and compare the area of rectangles (including squares), and including using standard units, cm2, m2 estimate the area of irregular shapes.		

	Number: Place Value Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit	<u>Number: Decimals</u> Identify the value of each digit in numbers given to 3 decimal places and multiply numbers by 10, 100 and 1,000 giving answers up to 3 decimal places	Geometry: Properties of Shapes Draw 2-D shapes using given dimensions and angles.
	Round any whole number to a required degree of accuracy.	Multiply one-digit numbers with up to 2 decimal places by whole numbers.	Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons.
	Use negative numbers in context, and calculate intervals across zero.	Use written division methods in cases where the answer has up to 2 decimal places.	Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.
Yr6	Solve number and practical problems that involve all of the above.	' Solve problems which require answers to be rounded to specified degrees of	<u>Statistics</u>
	Number- addition subtraction, multiplication + division Solve addition and subtraction multi step problems in contexts, deciding which enceptions and methods to use and why	accuracy.	Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius.
	Multiply multi-digit number up to 4 digits by a 2-digit number using the formal written method of long multiplication.	Solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison.	Interpret and construct pie charts and line graphs and use these to solve problems.
	Divide numbers up to 4 digits by a 2-digit whole number using the formal	Recall and use equivalences between simple fractions, decimals and	Calculate the mean as an average.
	written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding as appropriate for the context.	Number: Algebra	Problem Solving and investigations
	Divide numbers up to 4 digits by a 2-digit number using the formal written method of short division, interpreting remainders according to the context.	Generate and describe linear number sequences.	
	Perform mental calculations, including with mixed operations and large numbers	Express missing number problems algebraically.	
	Identify common factors, common multiples and prime numbers.	Find pairs of numbers that satisfy an equation with two unknowns.	
	Use their knowledge of the order of operations to carry out calculations	Enumerate possibilities of combinations of two variables	
	involving the four operations.	Measurement: Converting Units Solve problems involving the calculation and conversion of units of measure,	
	Solve problems involving addition, subtraction, multiplication and division.	using decimal notation up to three decimal places where appropriate.	
	Use estimation to check answers to calculations and determine in the context of a problem, an appropriate degree of accuracy.	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 3dp.	
	<u>Fractions</u> Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.	Convert between miles and kilometres.	
	Compare and order fractions, including fractions > 1	Measurement: Perimeter, Area and Volume Recognise that shapes with the same areas can have different perimeters and	
	Generate and describe linear number sequences (with fractions)	vice versa.	
	Add and subtract fractions with different denominations and mixed numbers, using the concept of equivalent fractions. Multiply simple pairs of proper fractions. writing the answer in its simplest form [for example 1 4 x 1 2 = 1 8]	Recognise when it is possible to use formulae for area and volume of shapes. Calculate the area of parallelograms and triangles.	
	Divide proper fractions by whole numbers [for example 1 + + + + + + + + + + + + + + + + + +	Calculate, estimate and compare volume of cubes and cuboids using standard units, including cm3, m3 and extending to other units (mm3, km3)	
	÷2 = 16]	<u>Number: Ratio</u> Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.	
	Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example 3 8]	Solve problems involving similar shapes where the scale factor is known or can be found.	
	Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.	Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.	

Geometry- Position and 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.	