



#### Number and Place Value

		COUNT	TING		
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
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
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 or 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 1000 000	
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		
		COMPARING	NUMBERS		
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  compare numbers with the same number of decimal places up to two decimal places (copied from Fractions)	read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit (appears also in Reading and Writing Numbers)	read, write, order and compare numbers up to 10 000 000 and determine the value of each digit (appears also in Reading and Writing Numbers)
			AND ESTIMATING NUMBERS	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		

This overview shows the KS1 and KS2 maths curriculum in its entirety.





		READING AND WRI	TING NUMBERS (including Ro	man Numerals)	
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
read and write numbers from 1 to 20 in numerals and words.	read and write numbers to at least 100 in numerals and in words	read and write numbers up to 1000 in numerals and in words		read, write, order and compare numbers to at least 1000 000 and determine the value of each digit (appears also in Comparing Numbers)	read, write, order and compare numbers up to 10 000 000 and determine the value of each digit (appears also in Understanding Place Value)
		tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks (copied from Measurement)	read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.	read Roman numerals to 1 000 (M) and recognise years written in Roman numerals.	
		UNDERSTANDI	NG PLACE VALUE		
	recognise the place value of each digit in a two-digit number (tens, ones)	recognise the place value of each digit in a three-digit number (hundreds, tens, ones)	recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)	read, write, order and compare numbers to at least 1000 000 and determine the value of each digit (appears also in Reading and	read, write, order and compare numbers up to 10 000 000 and determine the value of each digit (appears also in Reading and Writing 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 units, tenths and hundredths (copied from Fractions)	Writing Numbers)  recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents (copied from Fractions)	identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places (copied from Fractions)

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	ROUNDING							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
			round any number to the nearest 10, 100 or 1000	round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000	round any whole number to a required degree of accuracy			
			round decimals with one decimal place to the nearest whole number (copied from Fractions)	round decimals with two decimal places to the nearest whole number and to one decimal place (copied from Fractions)	solve problems which require answers to be rounded to specified degrees of accuracy (copied from Fractions)			
		PROBLEN	N SOLVING					
	use place value and number facts to solve problems	solve number problems and practical problems involving these ideas.	solve number and practical problems that involve all of the above and with increasingly large positive numbers	solve number problems and practical problems that involve all of the above	solve number and practical problems that involve all of the above			

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Number: Addition and Subtraction

		NUMBER	R BONDS		
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
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 CA	LCULATION		
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  * a 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 (appears also in Written Methods)	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

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	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 (appears also in Mental Calculation)		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)				
	INVE	RSE OPERATIONS, ESTIM	ATING AND CHECKING AN	SWERS				
	recognise and use the inverse relationship between addition 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 answers	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 of a problem, levels of accuracy.			

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		PROBLEM	SOLVING		
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	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 simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change (copied from Measurement)	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

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Number: Multiplication and Division

		MULTIPLICATION	& DIVISION FACTS		
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
count in multiples of twos, fives and tens (copied from Number and Place Value)	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward (copied from Number and Place Value)	count from 0 in multiples of 4, 8 50 and 100 (copied from Number and Place Value)	3, count in multiples o 7, 9, 25 and 1000 (copied from Numb and Place Value)	backwards in step	s of any given
	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		and	
		MENTAL C	ALCULATION		
		write and calculate mathematics 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 (appears also in Written Methods)	and derived facts t multiply and divide mentally, including: multiplying by 0 and dividing by 1; multip together three num	numbers mentally upon known facts	· · · · · · · · · · · · · · · · · · ·
	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 me calculations (appear also in Properties of Numbers)	rs 100 and 1000	division and calculate decimal
		WRITTEN (	CALCULATION		
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6

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	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 (appears also in Mental Methods)	multiply two-digit and three-digit numbers by a one-digit number using formal written layout	digits by digit num formal wr including	ation for two-	digits by	nulti-digit numbers up to 4 a two-digit whole number formal written method of iplication
				digits by number u written m division a remainde	mbers up to 4 a one-digit using the formal nethod of short and interpret ers ately for the	digit who written m appropria numbers whole num method o remainde remainde as approp use writt where the decimal p	mbers up to 4-digits by a two- le number using the formal nethod of short division where ate for the context divide up to 4 digits by a two-digit nber using the formal written f long division, and interpret rs as whole number rs, fractions, or by rounding, priate for the context en division methods in cases the answer has up to two laces (copied from Fractions of decimals))
	PROPERTIES OF I	NUMBERS: MULTIPLES,_FA	CTORS, PRIMES, SQUA	ARE AND C	CUBE NUMBERS		
Year 1	Year 2	Year 3	Year 4		Year 5		Year 6
			recognise and use fact pairs and commutativi mental calculations (repeated)	ty in for ar	dentify multiples of actors, including factor pairs of a nund common factor umbers.  Inow and use the ocabulary of prime	inding all umber, es of two	identify common factors, common multiples and prime numbers  use common factors to simplify fractions; use

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		numbers, prime factors and composite (non-prime) numbers establish whether a number up to 100 is prime and recall prime numbers up to 19	common multiples to express fractions in the same denomination (copied from Fractions)
		recognise and use square numbers and cube numbers, and the notation for squared ( ) and cubed ( )	calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm³) and cubic metres (m³), and extending to other units such as mm and km³  (copied from Measures)

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	ORDER OF OPERATIONS							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
					use their knowledge of the order of operations to carry out calculations involving the four operations			
	IN'	VERSE OPERATIONS, ESTIM	ATING AND CHECKING ANSV	VERS				
		estimate the answer to a calculation and use inverse operations to check answers (copied from Addition and Subtraction)	estimate and use inverse operations to check answers to a calculation (copied from Addition and Subtraction)		use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy			

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	PROBLEM SOLVING								
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
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 and a combination of these, including understanding the meaning of the equals sign solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates	solve problems involving addition, subtraction, multiplication and division  solve problems involving similar shapes where the scale factor is known or can be found (copied from Ratio and Proportion)				

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#### Number: Fractions (including Decimals and Percentages)

		COUNTING IN FR	ACTIONAL STEPS		
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Pupils should count in fractions up to 10, starting from any number and using the 1/2 and 2/4 equivalence on the number line (Non Statutory Guidance)	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 and name a quarter as one of four	recognise, find, name and write fractions $\frac{1}{3}$ , $\frac{1}{4}$ , $\frac{2}{4}$ and $\frac{3}{4}$ 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 tenths arise from dividing an object into 10 equal parts and in dividing one - digit numbers or quantities by 10.  recognise and use fractions as numbers: unit fractions	recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten	recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents (appears also in Equivalence)	
equal parts of an object, shape or quantity		and non-unit fractions with small denominators			
shape or quantity		Silian denominators			
		COMPARING	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

This overview shows the KS1 and KS2 maths curriculum in its entirety.





			COMPARING DECIMA	LS		
Year 1	Year 2	Year 3	Year 4	`	Year 5	Year 6
			compare numbers with the same number of decimal places up to two decimal places	read, write, order o with up to three de	and compare numbers ecimal places	identify the value of each digit in numbers given to three decimal places
			ROUNDING INCLUDING D	CIMALS		
			round decimals with one decimal place to the nearest whole number		h two decimal places to number and to one	solve problems which require answers to be rounded to specified degrees of accuracy
		EQUIVALENCE (	INCLUDING FRACTIONS, DEC	IMALS AND PERCEN	NTAGES)	
	write simple fractions e.g. $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$ .	recognise and show, using diagrams, equivalent fractions with small denominators	recognise and show, using diagrams, families of common equivalent fractions		write equivalent n fraction, represented enths 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	read and write dec fractions (e.g. 0.71	71	associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. <sup>3</sup> / <sub>o</sub> )
				_	thousandths and relate ndredths and decimal	۰
			recognise and write decimal equivalents to $\begin{pmatrix} 1 & 1 & 3 \\ 4 & 2 & 4 \end{pmatrix}$	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 as a decimal fraction		recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.
		AD	DITION AND SUBTRACTION (	OF FRACTIONS		
Year	1 Ye	ar 2	Year 3	Year 4	Year 5	Year 6

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		add and subtract fractions with the same denominator within one whole (e.g. $\frac{5}{7}$ + $\frac{1}{7}$ = $\frac{6}{7}$ )	add and subtract fractions with the same denominator	add and subtract fractions with the same denominator and multiples of the same number  recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number (e.g. $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = \frac{1}{5}$ )	add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
		MULTIPLICATION AND D	IVISION OF FRACTIONS		
				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 (e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$ )  multiply one-digit numbers with up to two decimal places by whole numbers  divide proper fractions by whole numbers (e.g. $\frac{1}{3} \div 2 = \frac{1}{8}$ )
					1/)
		AN II TIDI TCATTON AND	DIVISION OF DESTINA		/ <sub>6</sub> )
V1	V2		DIVISION OF DECIMALS	V 5	
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6 multiply one-digit numbers with up to two decimal places by whole numbers
			find the effect of dividing		multiply and divide numbers
			a one- or two-digit number		by 10, 100 and 1000 where

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			by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths		the answers are up to three decimal places
					identify the value of each digit to three decimal places and 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
		22.021.54			
V1	V2	PROBLEM		V <b>F</b>	V/
Year 1	Year 2	Year 3 solve problems that involve all of the above	year 4 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	Year 5 solve problems involving numbers up to three decimal places	Year 6
			solve simple measure and money problems involving	solve problems which require knowing percentage and decimal equivalents of	

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		fractions and decimals to two decimal places.	', ', ', ', ', ', ', and those with a denominator of a	
			multiple of 10 or 25.	

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Number: Ratio and Proportion

State	ments only appear in Year 6 b	ut should be connected to prev	vious learning, particularly	fractions and multiplication and	division
					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.

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#### Measurement

			COMPARING AND ES	STIMAT	ING		
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 =				estimate, compare and calculate different measures, including money in pounds and pence (also included in Measuring)	calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes (also included in measuring)  estimate volume (e.g. using 1 cm³ blocks to build cubes and cuboids) and capacity (e.g. using water)	calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm³) and cubic metres (m³), and extending to other units such as mm and km³.
sequence events in chronological order using language [e.g. before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]	compare and sequence intervals of time	estimate to the near in terms of use vocab		curacy e time clock;			
			MEASURING and CA	LCULAT			
Year 1	Year 2		Year 3		Year 4	Year 5	Year 6
measure and begin to record the following:	choose and use appropriate st units to estimate and measure		measure, compare, add and subtract: <b>lengths</b>		ate, compare and ate different		solve problems involving the calculation and conversion of

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* * *	lengths and heights mass/weight capacity and volume time (hours, minutes, seconds)	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	(m/cm/mm); mass (kg/g); volume/capacity (l/ml)	measures, including money in pounds and pence (appears also in Comparing)	length, mass, volume, money) using decimal notation including scaling.	units of measure, using decimal notation up to three decimal places where appropriate (appears also in Converting)
			measure the <b>perimeter</b> 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

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			MEASL	URING and CALCULATI	NG			
Year 1		Year 2	Year 3	Year 4	Year	5		Year 6
recognise and know the value of different denominations of coins and notes	and pence (p); particular value find different equal the same solve simple pi context involvi	use symbols for pounds (£); combine amounts to make a see combinations of coins that a amounts of money  roblems in a practical sing addition and subtraction are same unit, including giving	add and subtract amounts of <b>money</b> to give change, using both £ and p in practical contexts					
	change	ie sume um, metaumg grving		find the area of	calculate and compar	re the area of	calculate the	area of parallelograms and
				rectilinear shapes by counting squares	squares and rectang using standard units	, square	triangles	
					centimetres (cm²) ar (m²) and estimate th irregular shapes	-	cubes and cub	imate and compare volume of oids using standard units, c centimetres (cm ) and cubic
					recognise and use sq and cube numbers, a for squared (2) and a (copied from Multipl Division)	nd the notation cubed ( )	metres (m <sup>3</sup> ), o mm <sup>3</sup> and km <sup>3</sup> ].	and extending to other units [e.g.
								en it is possible to use formulae volume of shapes
				TELLING THE TIME				
Year 1		Year 2	Year 3		Year 4	Year	5	Year 6

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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 (appears also in Converting)		
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. (appears also in Converting)	estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as a.m./p.m., morning, afternoon, noon and midnight (appears also in Comparing and Estimating)			
			solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days (appears also in Converting)	solve problems involving converting between units of time	

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		CONVE	RTING		
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	know the number of minutes in an hour and the number of hours in a day.  (appears also in Telling the Time)	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 (e.g. kilometre to metre; hour to minute)	convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)	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
			read, write and convert time between analogue and digital 12 and 24-hour clocks (appears also in Converting)	solve problems involving converting between units of time	solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate (appears also in Measuring and Calculating)
			solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days (appears also in Telling the Time)	understand and use equivalences between metric units and common imperial units such as inches, pounds and pints	convert between miles and kilometres

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Geometry: Properties of Shape

		IDENTIFYING SHAPES	AND THIER PROPERTIES		
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 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]		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)  illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius
			CONSTRUCTING		
		draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe	complete a simple symmetric figure with respect to a specific line of symmetry	draw given angles, and measure them in degrees (°)	draw 2-D shapes using given dimensions and angles recognise, describe and
		them			build simple 3-D shapes, including making nets (appears also in Identifying Shapes and Their Properties)

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		COMPARIN	NG AND 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  distinguish between regular and irregular polygons based on reasoning about equal sides and angles	compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons
			ANGLES		
		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 halfturn, 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°)  * angles at a point on a straight  line and ½ a turn (total 180°)  * 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			

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Geometry: Position and Direction

POSITION, DIRECTION 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 threequarter 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			
PATTERN						
	order and arrange combinations of mathematical objects in patterns and sequences					

This overview shows the KS1 and KS2 maths curriculum in its entirety.





#### **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 two-step 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		

This overview shows the KS1 and KS2 maths curriculum in its entirety.







## Algebra

		EQUAT	IONS		
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 $7 = \square - 9$ (copied from Addition and Subtraction)	recognise and use the inverse relationship between addition and subtraction and use this to check calculations and <b>missing number</b> 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

This overview shows the KS1 and KS2 maths curriculum in its entirety.





FORMULAE					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			Perimeter can be expressed algebraically as 2(a + b) where a and b are the dimensions in the same unit. (Copied from NSG measurement)		recognise when it is possible to use formulae for area and volume of shapes (copied from Measurement)
		SEQU	ENCES		
sequence events in chronological order using language such as: before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening (copied from Measurement)	compare and sequence intervals of time (copied from Measurement)  order and arrange combinations of mathematical objects in patterns (copied from Geometry: position and direction)				generate and describe linear number sequences

This overview shows the KS1 and KS2 maths curriculum in its entirety.