

Number: Number and Place Value

	COUNTING							
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	find 1000 more or less than					
more and one less		than a given number	a given number					
		COMPARING	G 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 1000 000 and determine the value of each digit (appears also in Reading and Writing Numbers)	read, write, order and compare numbers up to 10 000000 and determine the value of each digit (appears also in Reading and Writing Numbers)			
		<u>'</u>	AND ESTIMATING NUMBERS					
identify and represent	identify, represent and	identify, represent and	identify, represent and					
numbers using objects and	estimate numbers using	estimate numbers using	estimate numbers using					
pictorial representations including the number line	different representations, including the number line	different representations	different representations					











Number: Number and Place Value

		READING AND WRITING NUM	BERS (including Roman Numera	ıls)	
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 1 000 000 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.	
		UNDERSTANDIN	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 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)
			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)	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)











Number: Number and Place Value

	ROUNDING							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
			round any number to the nearest 10, 100 or 1 000	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)			
		PROBLEM	I 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			











Number: Addition and Subtraction

		NUMB	ER 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 (CALCULATION		
add and subtract one- digit and two-digit numbers to 20, including zero	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: * a two-digit number and ones * a two-digit number and tens * two two-digit numbers * adding three one-digit numbers	add and subtract numbers mentally, including: * a three-digit number and ones * a three-digit number and tens * 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











Number: Addition and Subtraction

	WRITTEN METHODS							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
read, write and interpret		add and subtract	add and subtract	add and subtract whole				
mathematical		numbers with up to	numbers with up to 4	numbers with more than 4				
statements involving		three digits, using	digits using the formal	digits, including using				
addition (+), subtraction		formal written methods	written methods of columnar addition and	formal written methods				
(-) and equals (=) signs (appears also in Mental		of columnar addition and subtraction	subtraction where	(columnar addition and subtraction)				
Calculation)		and Subtraction	appropriate	Subtraction				
,			арргорнисс					
	INV	ERSE OPERATIONS, ESTIM	ATING AND CHECKING ANS	WERS				
	recognise and use the	estimate the answer to	estimate and use inverse	use rounding to check	use estimation to check			
	inverse relationship	a calculation and use	operations to check	answers to calculations	answers to calculations			
	between addition and	inverse operations to	answers to a calculation	and determine, in the	and determine, in the			
	subtraction and use this to	check answers		context of a problem,	context of a problem,			
	check calculations and			levels of accuracy	levels of accuracy.			
	solve missing number							
	problems.							











Number: Addition and Subtraction

PROBLEM SOLVING							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
year 1 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	year 4 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		











		MULTIPLICATION & DI	VISION 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)	count in multiples of 6, 7, 9, 25 and 1000 (copied from Number and Place Value)	count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 (copied from Number and Place Value)	
	recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers	recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	recall multiplication and division facts for multiplication tables up to 12 × 12		
		MENTAL CALCU	LATION		
		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 Written Methods)	use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers	multiply and divide numbers mentally drawing upon known facts	perform mental calculations, including with mixed operations and large numbers
	show that multiplication of two numbers can be done in any order		recognise and use factor pairs and commutativity in	multiply and divide whole numbers and	associate a fraction with division and calculate decimal fraction equivalents (e.g.











	(commutative) and division of one number by another cannot			mental calculati (appears also in Properties of Nur		those involving d by 10, 100 and 10		0.375) for a simple fraction (e.g. ³ / ₈) (copied from Fractions)
		WRITTEN (CALCUL	LATION				
Year 1	Year 2	Year 3		Year 4		Year 5		Year 6
	calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), 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)	and the numb	ply two-digit hree-digit pers by a one- number using al written t	to 4 d two-d using meth long i	ply numbers up ligits by a one- or digit number a formal written od, including multiplication for digit numbers	digits by using th	multi-digit numbers up to 4 natwo-digit whole number e formal written method of ultiplication
					4 digi numk forma meth divisi	e numbers up to ts by a one-digit per using the al written od of short on and interpret inders	two-dig formal v division context digits by using th	umbers up to 4-digits by a it whole number using the written method of short where appropriate for the divide numbers up to 4 a two-digit whole number e formal written method of ision, and interpret











	PROPERTIES OF	NUMBERS: MULTIPLES, FAC	TORS PRIMES SOLIAR	conte	rxt r	remainderounding context use writter where the decimal pl	ers as whole number ers, fractions, or by , as appropriate for the en division methods in cases answer has up to two decimals))
Year 1	Year 2	Year 3	Year 4	IL AITE	Year 5		Year 6
			recognise and use fa pairs and commutati in mental calculation (repeated)	ivity	identify multiples a factors, including fi all factor pairs of a number, and comm factors of two num know and use the vocabulary of prime numbers, prime factors of two numbers, prime factors of prime) numbers (no prime) numbers establish whether and prime and recall prime and recall prime and recall prime and recall primes up to 19	non nbers. ee ctors n- a	identify common factors, common multiples and prime numbers use common factors to simplify fractions; use common multiples to express fractions in the same denomination (copied from Fractions)
					recognise and use s numbers and cube numbers, and the	•	calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre











		notation for squared $\binom{2}{1}$ and cubed $\binom{3}{1}$	cubed (cm³) and cubic metres (m³), and extending
		()	to other units such as mm
			and km (copied from Measures)











	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, ESTIMA	TING AND CHECKING ANSW	ERS				
		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			











	PROBLEM SOLVING								
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
solve one-step problems	solve problems involving	solve problems, including	solve problems involving	solve problems involving	solve problems involving				
involving multiplication	multiplication and	missing number	multiplying and adding,	multiplication and	addition, subtraction,				
and division, by	division, using materials,	problems, involving	including using the	division including using	multiplication and				
calculating the answer	arrays, repeated addition,	multiplication and	distributive law to	their knowledge of	division				
using concrete objects,	mental methods, and	division, including positive	multiply two digit	factors and multiples,					
pictorial representations	multiplication and	integer scaling problems	numbers by one digit,	squares and cubes					
and arrays with the	division facts, including	and correspondence	integer scaling problems	solve problems involving					
support of the teacher	problems in contexts	problems in which n	and harder	addition, subtraction,					
		objects are connected to	correspondence problems	multiplication and					
		m objects	such as n objects are	division and a					
			connected to m objects	combination of these,					
				including understanding					
				the meaning of the equals					
				sign					
				solve problems involving	solve problems involving				
				multiplication and	similar shapes where the				
				division, including scaling	scale factor is known or can				
				by simple fractions and	be found				
				problems involving simple	(copied from Ratio and				
				rates	Proportion)				











		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, 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 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)	
recognise, find and name a quarter as one of four equal parts of an object, shape or quantity		recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators			
		COMPARING	FRACTIONS		
		compare and order unit fractions, and fractions		compare and order fractions whose denominators are all	compare and order fractions, including fractions >1











	with the same	multiples of the same	
	denominators	number	











			COMPARING DECIMA	LS	
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			compare numbers with the	read, write, order and compare	identify the value of each digit
			same number of decimal	numbers with up to three decimal	in numbers given to three
			places up to two decimal	places	decimal places
			places		
			ROUNDING INCLUDING DE	CIMALS	
			round decimals with one	round decimals with two decimal	solve problems which require
			decimal place to the nearest	places to the nearest whole number	answers to be rounded to
			whole number	and to one decimal place	specified degrees of accuracy
		EQUIVALENCE	(INCLUDING FRACTIONS, DECIN	MALS AND PERCENTAGES)	
	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	identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths	use common factors to simplify fractions; use common multiples to express fractions in the same denomination
			recognise and write decimal equivalents of any number of tenths or hundredths	read and write decimal numbers as fractions (e.g. $0.71 = \frac{71}{100}$)	associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction
				recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	(e.g. ³ / ₈)
			recognise and write decimal equivalents to $\frac{1}{4}$; $\frac{1}{2}$; $\frac{3}{4}$	recognise the per cent symbol (%) and understand that per cent relates to "number of parts per hundred", and	recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.











			write percentages as denominator 100 as			s as a fraction with as a decimal fraction		
	ADDITION AND SUBTRACTION OF FRACTIONS							
Year 1	Year 2	2	Year 3		Year 4	Year 5	Year 6	
		with th denom	and subtract fractions the same with the same denominator $e (e.g. \frac{5}{7} + \frac{1}{7} = \frac{6}{7})$		add and subtract fraction with the same denominator and multiples of the same number recognise mixed number and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number (e.g. $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = \frac{1}{5}$)	with different denominators and mixed numbers, using the concept of equivalent fractions		
		MU	LTIPLICATION AND D	IVISION O	F 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	











		(11111111111111111111111111111111111111			divide proper fractions by whole numbers (e.g. $\frac{1}{3}$ ÷ $2 = \frac{1}{6}$)
		MULTIPLICATION AND	DIVISION OF DECIMALS		
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
real 1	rear 2	rear 3	find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths	rear 3	multiply one-digit numbers with up to two decimal places by whole numbers multiply and divide numbers by 10, 100 and 1000 where 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
			SOLVING		V. 6
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		solve problems that involve all of the above	solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including nonunit fractions where the answer is a whole number	solve problems involving numbers up to three decimal places	
			solve simple measure and money problems involving fractions and decimals to two decimal places.	solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those with a denominator of a multiple of 10 or 25.	











Ratio and Proportion

Statemen	Statements only appear in Year 6 but should be connected to previous 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.		











Algebra

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











Algebra

	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			











		COMPARING AND ESTIMA	ATING		
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 (cm ³) and cubic metres (m ³), and extending to other units such as mm ³ and km ³ .
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 and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use			











	afterno	ary such as a.m./p.m., mori on, noon and midnight (app elling the Time)			
		MEASURING and CA	ALCULATING		
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
measure and begin to record the following: * lengths and heights * mass/weight * capacity and volume * time (hours, minutes, seconds)	choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (I/mI)	estimate, compare and calculate different measures, including money in pounds and pence (appears also in Comparing)	use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scaling.	solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate (appears also in Converting)
		measure the perimeter of simple 2-D shapes	measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres	measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres	recognise that shapes with the same areas can have different perimeters and vice versa











		MEASU	RING and CALCULAT	ING	
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
recognise and know the value of different	recognise and use symbols for pounds (£) and pence (p) ; combine amounts to make a particular value	add and subtract amounts of money to give change, using both £ and p			
denominations of coins and notes	find different combinations of coins that equal the same amounts of money	in practical contexts			
	solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change				
			find the area of rectilinear shapes by counting	calculate and compare the area of squares and rectangles including using standard units,	calculate the area of parallelograms and triangles
			squares	square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes recognise and use square numbers and cube numbers, and	calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other units [e.g. mm³ and km³].











			the notation for some cubed (3) (copied from Mu Division)		_	vhen it is possible to use or area and volume of
			THE TIME			
Year 1	Year 2	Year 3	Year 4	Year	5	Year 6
tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.	tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times.	tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24- hour clocks	read, write and convert time between analogue and digital 12 and 24-hour clocks (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 in converting betwee time	_	











	CONVERTING						
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		











Geometry: Properties of Shapes

IDENTIFYING SHAPES AND THIER PROPERTIES						
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
recognise and name	identify and describe the		identify lines of symmetry	identify 3-D shapes,	recognise, describe and	
common 2-D and 3-D	properties of 2-D shapes,		in 2-D shapes presented	including cubes and other	build simple 3-D shapes,	
shapes, including:	including the number of		in different orientations	cuboids, from 2-D	including making nets	
* 2-D shapes [e.g.	sides and line symmetry			representations	(appears also in Drawing and	
rectangles (including	in a vertical line				Constructing)	
squares), circles and triangles]	identify and describe the				illustrate and name parts	
* 3-D shapes [e.g.	properties of 3-D shapes,				of circles, including	
cuboids (including	including the number of				radius, diameter and	
cubes), pyramids and	edges, vertices and faces				circumference and know	
spheres].					that the diameter is twice	
	identify 2-D shapes on				the radius	
	the surface of 3-D shapes,					
	[for example, a circle on a					
	cylinder and a triangle on					
	a pyramid]					
		DRAWING AND	CONSTRUCTING			
		draw 2-D shapes and	complete a simple	draw given angles, and	draw 2-D shapes using	
		make 3-D shapes using	symmetric figure with	measure them in degrees	given dimensions and	
		modelling materials;	respect to a specific line	(°)	angles	
		recognise 3-D shapes in	of symmetry			
		different orientations and			recognise, describe and build simple 3-D shapes,	
		describe them			including making nets	
					(appears also in Identifying	
					Shapes and Their Properties)	











Geometry: Properties of Shapes

V1	V2	The state of the s	NG AND CLASSIFYING	V	VC
Year 1	compare and sort common 2-D and 3- D shapes and everyday objects	Year 3	Year 4 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	Year 6 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 half-turn, three make three quarters of a turn and four a complete turn; identify whether	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°) 	recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles











Geometry: Properties of Shapes

angles are greater than or less than a right angle	* other multiples of 90°	
identify horizontal and vertical		
lines and pairs of perpendicular		
and parallel lines		











Geometry: Position and Direction

POSITION, DIRECTION AND MOVEMENT							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
describe position,	use mathematical		describe positions on a	identify, describe and	describe positions on the		
direction and movement,	vocabulary to describe		2-D grid as coordinates in	represent the position of	full coordinate grid (all		
including half, quarter	position, direction and		the first quadrant	a shape following a	four quadrants)		
and three-quarter turns.	movement including			reflection or translation,			
	movement in a straight		describe movements	using the appropriate	draw and translate simple		
	line and distinguishing		between positions as	language, and know that	shapes on the coordinate		
	between rotation as a		translations of a given	the shape has not	plane, and reflect them in		
	turn and in terms of right		unit to the left/right and	changed	the axes.		
	angles for quarter, half		up/down				
	and three-quarter turns						
	(clockwise and						
	anti-clockwise)						
			plot specified points and				
			draw sides to complete a				
			given polygon				
	PATTERN						
	order and arrange						
	combinations of						
	mathematical objects in						
	patterns and sequences						











Statistics

INTERPRETING, CONSTRUCTING AND PRESENTING DATA							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
	interpret and construct	interpret and present	interpret and present	complete, read and	interpret and construct		
	simple pictograms, tally	data using bar charts,	discrete and continuous	interpret information in	pie charts and line graphs		
	charts, block diagrams	pictograms and tables	data using appropriate	tables, including	and use these to solve		
	and simple tables		graphical methods,	timetables	problems		
			including bar charts and				
			time graphs				
	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						
			PROBLEMS				
		solve one-step and two-	solve comparison, sum	solve comparison, sum	calculate and interpret		
		step questions [e.g. 'How	and difference problems	and difference problems	the mean as an average		
		many more?' and 'How	using information	using information			
		many fewer?'] using	presented in bar charts,	presented in a line graph			
		information presented in	pictograms, tables and				
		scaled bar charts and	other graphs.				
		pictograms and tables.					







