Number: Number and Place Value

			COUNTING			
ELG	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Count reliably from one to 20	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 1 000 000	
Say the number one more or less than a given 1-20	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			
Place numbers 1-20 in order.	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 000000 and determine the value of each digit (appears also in Reading and Writing Numbers)
		,	EPRESENTING AND ESTIMA			T T
Use objects	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		

		READING AND W	RITING NUMBERS (including	g Roman Numerals)		
ELG	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 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, write, order and compare numbers to at least 1 000 000 and determine the value of each digit (appears also in Comparing Numbers) read Roman numerals to 1000 (M) and recognise years written in Roman numerals.	read, write, order and compare numbers up to 10 000 000 and determine the value of each digit (appears also in Understanding Place Value)
		recognise the place value of each digit in a two-digit number (tens, ones)	NDERSTANDING PLACE VAL 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) 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)	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) recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents (copied from Fractions)	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) 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)

			ROUNDING			
ELG	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
				round any number to	round any number up	round any whole
				the nearest 10, 100 or	to 1000000 to the	number to a required
				1000	nearest 10, 100, 1	degree of accuracy
					000, 10 000 and 100	
					000	
				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 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

			NUMBER BONDS			
ELG	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Know doubles facts to 10	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			
Count on or back to find the answer = addition and subtraction of single digit numbers.	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

			WRITTEN METHODS			
ELG	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Use quantities and objects to add and subtract two single digit numbers	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)	
	Calculation	INVERSE OPERATI	ONS, ESTIMATING AND CH		Subtractiony	
		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.
			PROBLEM SOLVING			
Solve problems using quantities and objects.	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	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

Number: Multiplication and Division

		MUL	TIPLICATION & DIVISION F	ACTS		
ELG	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	count in multiples of	count in steps of 2, 3,	count from 0 in	count in multiples of 6,	count forwards or	
	twos, fives and tens	and 5 from 0, and in	multiples of 4, 8, 50 and	7, 9, 25 and 1 000	backwards in steps of	
	(copied from Number	tens from any number,	100	(copied from Number	powers of 10 for any	
	and Place Value)	forward or backward	(copied from Number	and Place Value)	given number up to	
		(copied from Number	and Place Value)		1 000 000	
		and Place Value)			(copied from Number	
					and Place Value)	
		recall and use	recall and use	recall multiplication and		
		multiplication and	multiplication and	division facts for		
		division facts for the 2, 5	division facts for the 3, 4	multiplication tables up		
		and 10 multiplication	and 8 multiplication	to 12 × 12		
		tables, including	tables			
		recognising odd and				
		even numbers				
			MENTAL CALCULATION	· · · ·		
			write and calculate	use place value, known	multiply and divide	perform mental
			mathematical	and derived facts to	numbers mentally	calculations, including
			statements for	multiply and divide	drawing upon known	with mixed operations
			multiplication and	mentally, including:	facts	and large numbers
			division using the	multiplying by 0 and 1;		
			multiplication tables	dividing by 1;		
			that they know,	multiplying together		
			including for two-digit	three numbers		
			numbers times one-digit numbers, using mental			
			and progressing to formal written methods			
			(appears also in Written			
			Methods)			
		show that multiplication	wicthous	recognise and use factor	multiply and divide	associate a fraction with
		of two numbers can be		pairs and commutativity	whole numbers and	division and calculate
		done in any order		in mental calculations	those involving decimals	decimal fraction
		(commutative) and		(appears also in	by 10, 100 and 1000	equivalents (e.g. 0.375)
		division of one number		Properties of Numbers)	~, 10, 100 and 1000	for a simple fraction
		by another cannot				(e.g. $\frac{3}{8}$)
						(copied from Fractions)
						,

			WRITTEN CALCULATION			
ELG	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		calculate mathematical	write and calculate	multiply two-digit and	multiply numbers up to	multiply multi-digit
		statements for	mathematical	three-digit numbers by	4 digits by a one- or	numbers up to 4 digits
		multiplication and	statements for	a one-digit number	two-digit number using	by a two-digit whole
		division within the	multiplication and	using formal written	a formal written	number using the
		multiplication tables	division using the	layout	method, including long	formal written method
		and write them using	multiplication tables		multiplication for two-	of long multiplication
		the multiplication (×),	that they know,		digit numbers	
		division (÷) and equals	including for two-digit			
		(=) signs	numbers times one-digit			
			numbers, using mental			
			and progressing to			
			formal written methods			
			(appears also in Mental Methods)			
			wiethousj		divide numbers up to 4	divide numbers up to 4-
					digits by a one-digit	digits by a two-digit
					number using the	whole number using the
					formal written method	formal written method
					of short division and	of short division where
					interpret remainders	appropriate for the
					appropriately for the	context divide numbers
					context	up to 4 digits by a two-
						digit whole number
						using the formal written
						method of long division,
						and interpret
						remainders as whole
						number remainders,
						fractions, or by
						rounding, as
						appropriate for the
						context
						use written division
						methods in cases where
						the answer has up to
						two decimal places
						(copied from Fractions
						(including decimals))

	PRO	PERTIES OF NUMBERS: MU	ILTIPLES, FACTORS, PRIMES	, SQUARE AND CUBE NUM	BERS	
ELG	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
ELG	Year 1	Year 2	Year 3	Year 4 recognise and use factor pairs and commutativity in mental calculations (repeated)	Year 5 identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. know and use the vocabulary of prime numbers, prime factors and composite (non- prime) numbers establish whether a number up to 100 is prime and recall prime numbers up to 19 recognise and use square numbers and cube numbers, and the notation for squared () and cubed ()	Year 6 identify common factors, common multiples and prime numbers <i>use common factors to</i> <i>simplify fractions; use</i> <i>common multiples to</i> <i>express fractions in the</i> <i>same denomination</i> (copied from Fractions) <i>calculate, estimate and</i> <i>compare volume of</i> <i>cubes and cuboids using</i> <i>standard units, including</i> <i>centimetre cubed (cm)</i> <i>and cubic metres (m),</i> <i>and extending to other</i> <i>units such as mm and</i> <i>km</i> (copied from Measures)
						(,
			ORDER OF OPERATIONS	<u> </u>		
						use their knowledge of the order of operations to carry out calculations involving the four operations

		INVERSE OPERATI	IONS, ESTIMATING AND CH	IECKING ANSWERS		
ELG	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			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			
ELG	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Solve problems including doubling, halving and sharing	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 addition, subtraction, multiplication and division
					solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates	solve problems involving similar shapes where the scale factor is known or can be found (copied from Ratio and Proportion)

Number: Fractions (including Decimals and Percentages)

		CO	UNTING IN FRACTIONAL ST	EPS		
ELG	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 the1/2 and 2/4 equivalence on the number line (Non Statutory Guidance)	count up and down in tenths	count up and down in hundredths		
			RECOGNISING 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 equal parts of an object, shape or quantity	recognise, find, name and write fractions $1/3$, 1/4, $2/4$ and $1/4$ 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 and non- unit fractions with small denominators	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)	
			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

			COMPARING DECIMALS			
ELG	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 and compare numbers with up to three decimal places	identify the value of each digit in numbers given to three decimal places
		ROI	UNDING INCLUDING DECIM		1 *	
				round decimals with one decimal place to the nearest whole number	round decimals with two decimal places to the nearest whole number and to one decimal place	solve problems which require answers to be rounded to specified degrees of accuracy
		EQUIVALENCE (INCLU	DING FRACTIONS, DECIMA	LS AND PERCENTAGES)		·
		write simple fractions e.g. $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and	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
		/ ₂ .		recognise and write decimal equivalents of any number of tenths or hundredths	read and write decimal numbers as fractions (e.g. $0.71 = \frac{71}{100}$) recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $\frac{3}{8}$)
				recognise and write decimal equivalents to 1/1, 1/2, 3/4	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.

		ADDITION	I AND SUBTRACTION OF F	RACTIONS		
ELG	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Year I	Year 2	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. $\frac{2}{r}$ +	add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
					$\binom{4}{5} = \binom{6}{5} = \binom{1}{5}$	
		MULTIPLIC	ATION AND DIVISION OF F	RACTIONS		
					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. $\frac{1}{4} \times \frac{1}{8}$)
						$/_{3} \div 2 = /_{6}$)
	- Y - 2		CATION AND DIVISION OF I			No su C
ELG Year 1	Year 2	Year 3		find the effect of	Year 5	Year 6 multiply one-digit numbers with up to two decimal places by whole numbers multiply and divide
				dividing a one- or two- digit number by 10 and		numbers by 10, 100 and 1000 where the answers

				100, identifying the value of the digits in the answer as ones, tenths		are up to three decimal places
				and hundredths		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
			PROBLEM SOLVING			
ELG Solve problems involving doubling and halving	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 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

State	ments only appear in Ye	ar 6 but should be conne	cted to previous learning	g, particularly fractions a	nd multiplication and di	vision
ELG	Year1	Year 2	Year 3	Year 4	Year 5	Year 6
						solve problems
						involving the relative
						sizes of two quantities
						where missing values
						can be found by using
						integer multiplication
						and division facts
						solve problems
						involving the
						calculation of
						percentages [for
						example, of
						measures, and such as
						15% of 360] and the
						use of percentages for
						comparison
						solve problems
						involving similar
						shapes where the
						scale factor is known
						or can be found
						solve problems
						involving unequal
						sharing and grouping
						using knowledge of
						fractions and
						multiples.

Algebra

			EQUATIONS			
ELG	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 $7 = \Box - 9$ (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
	represent and use number bonds and related subtraction facts within 20 (copied from Addition and	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 enumerate all possibilities of combinations of two variables
	Addition and Subtraction)					variables

			FORMULAE			
ELG	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)		use simple formulae recognise when it is possible to use formulae for area and volume of shapes (copied from Measurement)
	L		SEQUENCES			
Recognise and describe patterns	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

Measurement

		CC	MPARING AND ESTIMATIN	G		
ELG	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
ELG Use everyday language to talk about size, weight, capacity, distance comparing quantities.	 Year 1 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] 	<pre>Year 2 compare and order lengths, mass, volume/capacity and record the results using >, < and =</pre>	Year 3	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 (cm) and square metres (m) and estimate the area of irregular shapes (also included in measuring) estimate volume (e.g. using 1 cm 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	compare durations of events, for example to calculate the time taken by particular events or tasks			
			estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as a.m./p.m., morning, afternoon, noon and midnight (appears also in Telling the Time)			

		M	EASURING and CALCULATIN	NG		
ELG	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)
		M	measure the perimeter of simple 2-D shapes EASURING and CALCULATIN	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
ELG	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Use everyday language to talk about money	recognise and know the value of different denominations of coins and notes	recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value find different combinations of coins that equal the same amounts of money solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change	add and subtract amounts of money to give change, using both £ and p in practical contexts			
				find the area of rectilinear shapes by counting squares	calculate and compare the area of squares and rectangles including	calculate the area of parallelograms and triangles

					using standard units, square centimetres (cm ²) and square metres (m ²) and estimate the area of irregular shapes recognise and use square numbers and cube numbers, and the notation for squared () and cubed () (copied from Multiplication and Division)	calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm ³) and cubic metres (m ³), and extending to other units [e.g. mm ³ and km ³]. recognise when it is possible to use formulae for area and volume of shapes
ELG	Year 1	Year 2	TELLING THE TIME Year 3	Year 4	Year 5	Year 6
Use everyday language to talk about time	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. know the number of	tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24- hour clocks estimate and read	read, write and convert time between analogue and digital 12 and 24- hour clocks (appears also in Converting)		
	language relating to dates, including days of the week, weeks, months and years	minutes in an hour and the number of hours in a day. (appears also in Converting)	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	solve problems involving converting between units of time	

			CONVERTING	months; weeks to days (appears also in Converting)		
ELG	Voor 1	Voor 2	CONVERTING	Voor 4	Voor E	Voorf
ELG	Year 1	Year 2 know the number of minutes in an hour and the number of hours in a day. (appears also in Telling the Time)	Year 3 know the number of seconds in a minute and the number of days in each month, year and leap year	Year 4 convert between different units of measure (e.g. kilometre to metre; hour to minute)	Year 5 convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)	Year 6 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

		IDENTIFY	YING SHAPES AND THIER PR	OPERTIES		
ELG	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Explore the characteristics of everyday shapes and use mathematical language to describe them	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
			RAWING AND CONSTRUCTI	NC		
			draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them	complete a simple symmetric figure with respect to a specific line of symmetry	draw given angles, and measure them in degrees (°)	draw 2-D shapes using given dimensions and angles recognise, describe and build simple 3-D shapes, including making nets (appears also in Identifying Shapes and Their Properties)
ELG		1	OMPARING AND CLASSIFYI		V F	N C
ELG	Year 1	Year 2 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	Year 5 use the properties of rectangles to deduce related facts and find missing lengths 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

			distinguish between regular and irregular polygons based on reasoning about equal sides and angles	
	ANGLES			
	recognise angles as a property of shape or a description of a turn identify right angles, recognise that two right angles make a half-turn, three make three	identify acute and obtuse angles and compare and order angles up to two right	know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles identify: * angles at a point and one whole turn (total 360°)	recognise angles where they meet at a point, are on a straight line, or are vertically opposite,
	quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle identify horizontal and vertical lines and pairs of perpendicular and	angles by size	 * angles at a point on a straight line and ½ a turn (total 180°) * other multiples of 90° 	and find missing angles
	parallel lines			

Geometry: Position and Direction

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