

Maths			<u> </u>	N	lumber: Number & Place Valu	ie .		
	EY	'FS	Key St	tage 1		Key St	age 2	
	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
COUNTING	Nursery  Develop fast recognition of up to 3 objects, without having to count them individually ('subitising'). Recite numbers past 5. Say one number for each item in order: 1,2,3,4,5.	Reception  Count objects, actions and sounds.  Develop the key skills of counting objects including saying the numbers in order and matching one number name to each item.  Appreciate that the last number of	Year 1  Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number  Count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens given a number, identify one more and one less	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;  find 10 or 100 more or less than a given number	Year 4  Count backwards through zero to include negative numbers  Count in multiples of 6, 7, 9, 25 and 1000  find 1000 more or less than a given number	Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero  Count forwards or backwards in steps of powers of 10 for any given number up to 1000 000	Vear 6 Use negative numbers in context, and calculate intervals across zero
COMPARIN G NUMBERS	Know that the last number reached when	the count indicates the total number of the group Subitise Count beyond ten Count verbally beyond 20 Use vocabulary: 'more than', 'fess than', 'fewer', 'the	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	Read, write, order and compare numbers to at least 1 000 000 and determine the value of	Read, write, order and compare numbers up to 10 000000 and determine the value of each digit



	counting a small set of objects tells you how many there are in total ('cardinal principle'). Compare quantitie s using language: 'more	same as', 'equal to'. Encourage children to use these words as well				Compare numbers with the same number of decimal places up to two decimal places (copied from Fractions)	each digit (appears also in reading and writing numbers)	(appears also in reading and writing numbers)
IDENTIFYING, REPRESENTING AND ESTIMATING NUMBERS	than', 'fewer than' Show 'finger numbers' up to 5. Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5.	Subitise  Link the number symbol (numeral) with its cardinal number value.	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 WRITING NUMBERS (including Roman Numerals)	Experime nt with their own symbols and marks as well as numerals .	Explore the composit ion of numbers to 10.	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)

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UNDERSTANDING PLACE VALUE		Understa nd the 'one more than/one less than' relations hip between consecuti ve	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)  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)
UNDERS		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)		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					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
ROUN					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	Solve real world mathem atical problems with numbers up to 5.		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
	up to 3.		Number :	Addition & Subtraction			



NUMBER BONDS	Automati cally recall number bonds for numbers 0–10.	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		J		
MENTAL CALCULATION		Add and subtract one-digit and two-digit numbers to 20, including zero  Read, write and interpret mathematical statements	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 Show that addition of two numbers can be done in	Add and subtract numbers mentally, including:  * A three-digit number and ones  * A three-digit number and tens  * A three-digit number and tens		Add and subtract numbers mentally with increasingly large numbers	Perform mental calculations, including with mixed operations and large numbers  Use their knowledge of the order of operations to
SQI		involving addition (+), subtraction (-) and equals (=) signs (appears also in written methods) Read, write and interpret mathematical statements	any order (commutative) and subtraction of one number from another cannot	Add and subtract numbers with up to three	Add and subtract numbers with up to 4	Add and subtract whole numbers with more than	carry out calculations involving the four operations
WRITTEN METHODS		involving addition (+), subtraction (-) and equals (=) signs (appears also in mental calculation)		digits, using formal written methods of columnar addition and subtraction	digits using the formal written methods of columnar addition and subtraction where appropriate	4 digits, including using formal written methods (columnar addition and subtraction)	
INVERSE OPERATIONS, ESTIMATING AND CHECKING			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		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
			Number : N	Multiplication & Division	I	I	
MULTIPLICATION & DIVISION FACTS		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)	
MULTIPLICATION	·		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 CALCULATION		Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot	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  Recognise and use factor pairs and commutativity in mental calculations (appears also in properties of numbers)	Multiply and divide numbers mentally drawing upon known facts  Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	Perform mental calculations, including with mixed operations and large numbers  Associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. <sup>3</sup> / <sub>8</sub> )
WRITTEN CALCULATION		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	Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers	Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication



				Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context	Divide numbers up to 4-digits by a two-digit whole number using the formal written method of short division where appropriate for the context divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number 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))
PROPERTIES OF NUMBERS: MULTIPLES, FACTORS, PRIMES, SQUARE AND CUBE NUMBERS			Recognise and use factor pairs and commutativity in mental calculations (repeated)	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	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)



	year sapeagae sa ac				Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)	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 mm³ and km³ (copied from measures)
ORDER OF OPERATIONS						Use their knowledge of the order of operations to carry out calculations involving the four operations
INVERSE OPERATIONS, ESTIMATING AND CHECKING			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	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)



	<u> </u>	Number: Fractions (ir	ncluding Decimals and Percen	itages)		
COUNTING IN FRACTIONAL STEPS		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		
RECOGNISING FRACTION	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	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	equal parts of an object, shape or quantity		fractions and non-unit fractions with small denominators  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 C DECIMALS				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
ROUNDIN G INCLUDIN G				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 (INCLUDING FRACTIONS, DECIMALS AND		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. $0.71 = {}^{71}/{}_{100}$ )  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. 3/8)
			Recognise and write decimal equivalents to $\frac{1}{4}$ ; $\frac{1}{4}$ ; $\frac{1}{2}$ ; $\frac{3}{4}$	Recognise the per cent symbol (%) and understand that per cent relates to "number of parts per hundred", and 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 AND SUBTRACTION OF FRACTIONS		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 DIVISION 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

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				·			Divide proper fractions by
							whole numbers (e.g. $^{1}/_{3}$ ÷
							2 = 1/6)
					Find the effect of dividing a one- or two-digit		Multiply one-digit numbers with up to two decimal places by whole numbers Multiply and divide numbers by 10, 100 and
					number by 10 and 100, identifying the value of the digits in the answer as		1000 where the answers are up to three decimal places
					ones, tenths and hundredths		
MULTIPLICATION AND DIVISION OF DECIMALS							Identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100
IULTIPLIC VISION O							And 1000 where the answers are up to three decimal places
≥ ā							Associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. <sup>3</sup> / <sub>8</sub> )
							Use written division methods in cases where the answer has up to two decimal places

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	 <u> </u>		1			
			Solve problems that involve all of the above	Solve problems involving increasingly harder	Solve problems involving numbers up to three	
			involve an or the above	fractions to calculate	decimal places	
				quantities, and fractions	decimal places	
				to divide quantities,		
				including non-unit		
				fractions where the		
				answer is a whole number		
				Solve simple measure and	Solve problems which	
				money problems	require knowing	
<u> </u>				involving fractions and decimals to two decimal	percentage and decimal	
PROBLEM SOLVING				places.	equivalents of $\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{5}$ ,	
180					$\frac{2}{5}$ , $\frac{4}{5}$ and those with a	
≧					denominator of a multiple	
08					of 10 or 25.	
<b>8</b>						
		Ra	tio & Proportion			
						Solve problems involving
						the relative sizes of two
						quantities where missing values can be found by
						using integer
						multiplication and division
						facts
RATIO & PROPORTION						
E E						Solve problems involving
<b>Q</b>						the calculation of
PRO						percentages [for example,
<b>∞</b>						of measures, and such as 15% of 360] and the use
2						of percentages for
₹						comparison
						Solve problems involving
						similar shapes where the
						scale factor is known or can be found
						can be round

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							Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.
				Measurement		1	
COMPARING AND ESTIMATING	!	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)	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 mm³ and km³.  Estimate volume (e.g. Using 1 cm³ blocks to build cubes and cuboids) and capacity (e.g. Using water)
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			



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MEASURING AND CALCULATING	Make comparis ons between objects relating to size, length, weight and capacity.	Compare length, weight and capacity	Measure and begin to record the following:  * Lengths and heights  * Mass/weight  * Capacity and volume  * Time (hours, minutes, seconds)	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)  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)  Measure the perimeter of simple 2-D shapes	Estimate, compare and calculate different measures, including money in pounds and pence (appears also in comparing)  Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres	Use all four operations to solve problems involving measure (e.g. Length, mass, volume, money) using decimal notation including scaling.  Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres	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)  Recognise that shapes with the same areas can have different perimeters and vice versa
<b>6</b>			Solve one-step problems that involve addition and	Recognise and use the inverse relationship	Algebra  Solve problems, including missing number		Use the properties of rectangles to deduce	Express missing number problems algebraically
EQUATIONS			subtraction, using concrete objects and pictorial representations, and <b>missing number problems</b> such as $7 = \Box - 9$	between addition and subtraction and use this to check calculations and missing number problems.	problems, using number facts, place value, and more complex addition and subtraction. (copied from Addition and Subtraction)		related facts and find missing lengths and angles (copied from Geometry: Properties of Shapes)	



		(copied from Addition and Subtraction)	(copied from Addition and Subtraction)			
			Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 (copied from Addition and Subtraction)	DIVISION)		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
FORMULAE					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)
SEQUENCES	Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then'	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



	Geometry: Properties of Shapes										
IDENTIFYING SHAPES AND THIER PROPERTIES	Talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematic al language: 'sides', 'corners'; 'straight', 'flat', 'round'.	Select, rotate and manipulate shapes in order to develop spatial reasoning skills.  Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can.	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			
DRAWING AND CONSTRUCTING	Select shapes appropri ately: flat				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			

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	surfaces	) 1 3			T		Recognise, describe and
	for						build simple 3-D shapes,
							including making nets
	building,						(appears also in
	a						Identifying Shapes and
	triangula						Their Properties)
	r prism						
	for a roof						
	etc.						
	Combine						
	shapes						
	to make						
	new						
	ones - an						
	arch, a						
	bigger						
	triangle						
	etc.						
			Compare and sort		Compare and classify	Use the properties of	Compare and classify
			common 2-D and 3-D		geometric shapes,	rectangles to deduce	geometric shapes based
₽			shapes and everyday		including quadrilaterals	related facts and find	on their properties and
A B			objects		and triangles, based on	missing lengths and	sizes and find unknown
COMPARING AND CLASSIFYING					their properties and sizes	angles	angles in any triangles,
PAF						Distinguish between regular and irregular	quadrilaterals, and regular polygons
∑ ∃						polygons based on	regular polygoris
8						reasoning about equal	
						sides and angles	
				Recognise angles as a		Know angles are	
				property of shape or a		measured in degrees:	
				description of a turn		estimate and compare	
						acute, obtuse and reflex	
	1			Identify right and a	Identify couts and abture	angles	December on the color
ES				Identify right angles, recognise that two right	Identify acute and obtuse angles and compare and	Identify:  * Angles at a point and	Recognise angles where they meet at a point, are
ANGLES				angles make a half-turn,	order angles up to two	one whole turn (total	on a straight line, or are
A				three make three	right angles by size	3600)	vertically opposite, and
				quarters of a turn and	TIGHT UNGLES DY SIZE	* Angles at a point on a	find missing angles
				four a complete turn;		straight line and ½ a	
				identify whether angles		turn (total 180o)	
				are greater than or less		* Other multiples of 90o	
				than a right angle			

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		7 1 3					
				Identify horizontal and			
				vertical lines and pairs of			
				perpendicular and parallel			
				lines			
			Geometr	y: Position & Direction			
	Understa	Describe position,	Use mathematical		Describe positions on a	identify, describe and	describe positions on the
	nd	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)
	position	and three-quarter turns.	movement including		'	reflection or translation,	, ,
	through	, , , , , , , , , , , , , , , , , , , ,	movement in a straight		Describe movements	using the appropriate	draw and translate simple
	words		line and distinguishing		between positions as	language, and know that	shapes on the coordinate
Ę			between rotation as a		translations of a given	the shape has not	plane, and reflect them in
🖁	alone		turn and in terms of right		unit to the left/right and	changed	the axes.
			angles for quarter, half		up/down	changea	the daes.
₽	Describe		and three-quarter turns		ap/down		
	a familiar		(clockwise and				
Z			Anti-clockwise)				
Ž	route.		Anti-clockwise)		Diet specified points and		
12	Discuss				Plot specified points and		
EC	routes				draw sides to complete a		
<del> </del>	and				given polygon		
ž							
ē	locations						
POSITION, DIRECTION AND MOVEMENT	, using						
8	words						
	like 'in						
	front of'						
	and						
	'behind'.						



	Talk about	C	<del> </del>	Order and arrange		, <u> </u>		
	and identify	Continue		combinations of				
	the patterns	, copy		mathematical objects in				
	around	and						
	them. For	create		patterns and sequences				
	example:							
	stripes on	repeatin						
	clothes,	g						
	designs on	patterns.						
	rugs and	patterns.						
	wallpaper.							
Z	Use informal							
8	language like							
PATTERN	'pointy',							
4 A	'spotty', 'blobs' etc.							
	Extend and							
	create ABAB							
	patterns –							
	stick, leaf,							
	stick, leaf.							
	Notice and							
	correct an							
	error in a							
	repeating							
	pattern.				a			
			T	T	Statistics		T	T
				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
و				charts, block diagrams	pictograms and tables	data using appropriate	tables, including	and use these to solve
₽₹				and simple tables		graphical methods,	timetables	problems
M F						including bar charts and		
STR						time graphs		
Ž Ž				Ask and answer simple				
o E				questions by counting the				
NG				number of objects in each				
E &				category and sorting the				
INTERPRETING, CONSTRUCTING AND PRESENTING DATA				categories by quantity				
FH F				Ask and answer questions				
<u> </u>				about totalling and				
_				comparing categorical				
				data				



	-	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
LVING		many more?' and 'How	using information	using information	
₩ N		many fewer?'] using	presented in bar charts,	presented in a line graph	
PROI		information presented in	pictograms, tables and		
S =		scaled bar charts and	other graphs.		
		pictograms and tables.			