

	NUMBER & PLACE VALUE	ADDITION & SUBTRACTION	MULTIPLICATION & DIVISION	FRACTIONS	MEASUREMENT	SHAPE	POSITION & DIRECTION	ALGEBRA
REC	Counting Counts objects, actions and sounds Is able to subitise (recognise how many objects there are in a small group without counting) Is able to link the number symbol (numeral) with its cardinal number value Can count beyond ten Comparing Numbers Is able to compare numbers Understands the 'one more than/one less than' relationship between consecutive numbers Is able to explore the composition of numbers to 10 Is able to subitise (recognise quantities without counting) up to 5	• Automatically recalls number bonds for numbers 0–5 and some to 10 • Automatically recalls (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts • Has a deep understanding of number to 10, including the composition of each number			Comparing & Estimating Can compare length, weight and capacity Can compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity Can make comparisons between objects relating to size, length, weight and capacity	Identifying Shapes & Their Properties Selects shapes appropriately; flat surfaces for building, a triangular prism for a roof etc. Can talk about and explore 2D and 3D shapes (e.g. circles, rectangles, triangles and cuboids) using informal and mathematical language; 'sides', 'corners', 'straight', 'flat', 'round' Can select, rotate and manipulate shapes in order to develop spatial reasoning skills Investigates composing and decomposing shapes and recognises a shape can have other shapes within it, just as numbers can	Position, Direction & Movement • • Understands position through words alone, e.g. "The bag is under the table," - with no pointing • Can describe a familiar route • Is able to discuss routes and locations, using words like 'in front of' and 'behind'	Is able to explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally Is able to continue, copy and create repeating patterns Verbally counts beyond 20, recognising the pattern of the counting system



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NUMBER & PLACE VALUE	ADDITION & SUBTRACTION	MULTIPLICATION & DIVISION	FRACTIONS	MEASUREMENT	PROPTERTIES OF SHAPE	POSITION & DIRECTION	STATISTICS	ALGEBRA	
Counting 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 Comparing Numbers Use the language of: equal to, more than, less than (fewer), most, least Identifying, Representing & Estimating Numbers Identify and represent numbers using objects and pictorial representations including the number line Reading & Writing Numbers Read and write numbers from 1 to 20 in numerals and words	 Represent and use number bonds and related subtraction facts within 20 Mental Calculation Add and subtract one-digit and two-digit numbers to 20, including zero Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs (appears also in Written Methods) Written Methods Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs (appears also in Mental Calculation) 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 	Multiplication & Division Facts Count in multiples of twos, fives and tens (copied from Number and Place Value) 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	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	Comparing & 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] sequence events in chronological order using language [e.g. before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening] Measuring & Calculating Measuring & Calculating Measuring & Calculating Measuring & Counting Money Recognise and heights mass/weight capacity and volume time (hours, minutes, seconds) Measuring & Counting Money Recognise and know the value of different denominations of coins and notes Telling The Time Tell the time to the hour and draw the hands on a clock face to show these times Recognise and use language relating to dates, including days of the week, weeks, months and years	Identifying Shapes & Their Properties 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].	Position, Direction & Movement Describe position, direction and movement, including half, quarter and three-quarter turns		 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) Represent and use number bonds and related subtraction facts within 20 (copied from Addition and Subtraction) Sequences Sequence events in chronological order using language such as: before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening (copied from Measurement) 	



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	NUMBER & PLACE VALUE	ADDITION & SUBTRACTION	MULTIPLICATION & DIVISION	FRACTIONS	MEASUREMENT	PROPTERTIES OF SHAPE	POSITION & DIRECTION	STATISTICS	ALGEBRA
	PLACE VALUE		DIVISION			JHAPE	DIRECTION		
	Counting	Number Bonds	Multiplication & Division	Counting In Fractional	Comparing & Estimating	Identifying Shapes &	Position, Direction &	Interpreting,	<u>Equations</u>
	• Count in steps of 2,	Recall and use addition and	<u>Facts</u>	<u>Steps</u>	Compare and order	Their Properties	Movement	Constructing &	 Recognise and use
	3, and 5 from 0,	subtraction facts to 20 fluently,	• Count in steps of 2, 3,	 Pupils should 	lengths, mass,	Identify and describe	Use mathematical	Presenting Data	the inverse
	and in tens from	and derive and use related	and 5 from 0, and in	count in fractions	volume/capacity and	the properties of 2-D	vocabulary to	Interpret and	relationship between
	any number,	facts up to 100	tens from any	up to 10, starting	record the results using >, <	shapes, including the	describe position,	construct simple	addition and
	forward or	Mental Calculation	number, forward or	from any number	and =	number of sides and	direction and	pictograms, tally	subtraction and use
	backward	Add and subtract numbers	backward	and using the 1/2	Compare and sequence	line symmetry in a	movement including	charts, block	this to check
	Comparing Numbers	using concrete objects,	(copied from Number	and 2/4	intervals of time	vertical line	movement in a	diagrams and simple	calculations and
	Compare and order	pictorial representations, and	and Place Value)	equivalence on the	Measuring & Calculating	Identify and describe	straight line and	tables	missing number
	numbers from 0 up	mentally, including:	Recall and use	number line (Non	Choose and use	the properties of 3-D	distinguishing	 Ask and answer 	problems. (copied
	to 100; use <, >	o a two-digit number	multiplication and	Statutory	appropriate standard units	shapes, including the	between rotation as	simple questions by	from Addition and
	and = signs	and ones	division facts for the	Guidance)	to estimate and measure	number of edges,	a turn and in terms	counting the number	Subtraction)
	Identifying,	o a two-digit number	2, 5 and 10	Recognising Fractions	length/height in any	vertices and faces	of right angles for	of objects in each	Recall and use
	Representing &	and tens	multiplication tables,	Recognise, find,	direction (m/cm); mass	Identify 2-D shapes	quarter, half and	category and sorting	addition and
	Estimating Numbers	o two two-digit	including recognising	name and write	(kg/g); temperature (°C);	on the surface of 3-D	three-quarter turns	the categories by	subtraction facts to
	Identify, represent	numbers	odd and even	fractions $\frac{1}{3}, \frac{1}{4},$	capacity (litres/ml) to the	shapes, [for	(clockwise and anti-	quantity	20 fluently, and
	and estimate	o adding three one-digit	numbers	1 2 2	nearest appropriate unit,	example, a circle on	clockwise)	Ask and answer	derive and use
	numbers using	numbers	Mental Calculation	² / ₄ and ³ / ₄ of a	using rulers, scales,	a cylinder and a	<u>Pattern</u>	questions about	related facts up to
	different	Show that addition of two	Show that	length, shape, set	thermometers and	triangle on a	Order and arrange	totalling and	100 (copied from
	representations,	numbers can be done in any	multiplication of two	of objects or	measuring vessels	pyramid]	combinations of	comparing	Addition and
	including the	order (commutative) and	numbers can be done	quantity	Measuring & Counting Money	Drawing & Construction	mathematical	categorical data	Subtraction)
	number line	subtraction of one number	in any order	Equivalence (Including	Recognise and use symbols	Draw 2-D shapes and Draw 2-D shapes and	objects in patterns and sequences		Sequences
	Reading & Writing Numbers	from another cannot	(commutative) and	Fractions, Decimals &	for pounds (£) and pence	make 3-D shapes	and sequences		 Compare and sequence intervals of
	Read and write	Inverse Operations, Estimating & Checking Answers	division of one number by another	Percentages)	(p); combine amounts to make a particular value	using modelling materials; recognise			time (copied from
Y2	numbers to at least	Recognise and use the inverse	cannot	Write simple	Find different combinations	3-D shapes in			Measurement)
	100 in numerals	relationship between addition	Written Calculation	fractions e.g. ¹ / ₂ of	of coins that equal the	different			Order and arrange
	and in words	and subtraction and use this to	Calculate	6 = 3 and	same amounts of money	orientations and			combinations of
	Understanding Place	check calculations and solve	mathematical	recognise the	Solve simple problems in a	describe them			mathematical
	Value	missing number problems.	statements for	equivalence of ² /	practical context involving	Comparing & Classifying			objects in patterns
	Recognise the	Problem Solving	multiplication and	equivalence of 7	addition and subtraction of	Compare and sort			(copied from
	place value of each	Solve problems with addition	division within the	and ¹ / ₂ .	money of the same unit,	common 2-D and 3-D			Geometry: position
	digit in a two-digit	and subtraction:	multiplication tables	2	including giving change	shapes and everyday			and direction)
	number (tens,	 using concrete objects 	and write them using		Telling The Time	objects			
	ones)	and pictorial	the multiplication (x),		Tell and write the time to				
	Problem Solving	representations,	division (÷) and equals		five minutes, including				
	 Use place value 	including those	(=) signs		quarter past/to the hour				
	and number facts	involving numbers,	Problem Solving		and draw the hands on a				
	to solve problems	quantities and	Solve problems		clock face to show these				
		measures	involving		times				
		 applying their 	multiplication and		Know the number of				
		increasing knowledge	division, using		minutes in an hour and the				
		of mental and written	materials, arrays,		number of hours in a day.				
		methods	repeated addition,		(appears also in				
		Solve simple problems in a	mental methods, and		Converting)				
		practical context involving	multiplication and		Converting				
		addition and subtraction of	division facts,		Know the number of				
		money of the same unit,	including problems in		minutes in an hour and the				
		including giving change (copied	contexts		number of hours in a day				
		from Measurement)							



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	NUMBER &	ADDITION &	MULTIPLICATION &	FRACTIONS	MEACUDEMENT	DDODTEDTIES OF SHADE	STATISTICS	ALCERDA
	PLACE VALUE	SUBTRACTION	DIVISION	FRACTIONS	MEASUREMENT	PROPTERTIES OF SHAPE	STATISTICS	ALGEBRA
	Counties	Manual Calculation	Multiplication C District Front	Counting to English of Chang	Companies O Estimation	Analas	Internation Construction C	Facetions
	Counting	Mental Calculation	Multiplication & Division Facts	Counting In Fractional Steps	Comparing & Estimating	Angles	Interpreting, Constructing & Predicting Data	Equations
•	• Count from 0 in multiples of 4, 8, 50 and 100;	 Add and subtract numbers mentally, including: 	 Count from 0 in multiples of 4, 8, 50 and 100 (copied from 	Count up and down in tenths	Compare durations of events, for example to	Recognise angles as a property of shape or a	Interpret and present data	 Solve problems, including missing number problems,
	• find 10 or 100 more or less	o a three-digit	Number and Place Value)	Beenguising Freetiens	calculate the time taken by	description of a turn	using bar charts, pictograms	using number facts, place
		number and	Recall and use multiplication	Recognising Fractions Recognise, find and write	particular events or tasks	Identify right angles,	and tables	value, and more complex
	than a given number	ones	and division facts for the 3, 4	fractions of a discrete set of	Estimate and read time	recognise that two right	and tables	addition and subtraction.
	Comparing Numbers	o a three-digit	and 8 multiplication tables	objects: unit fractions and non-	with increasing accuracy to	angles make a half-turn,	Solving Problems	(copied from Addition and
	comparing Numbers compare and order numbers	number and	and o multiplication tables	unit fractions with small	the nearest minute; record	three make three quarters of	Solve one-step and two-step	Subtraction)
	up to 1000	tens	Mental Calculation	denominators	and compare time in terms	a turn and four a complete	questions [e.g. 'How many	Solve problems, including
	up to 1000	o a three-digit	Write and calculate	Recognise that tenths arise	of seconds, minutes, hours	turn; identify whether angles	more?' and 'How many	missing number problems,
	Identifying, Representing &	number and	mathematical statements for	from dividing an object into 10	and o'clock; use vocabulary	are greater than or less than	fewer?'] using information	involving multiplication and
	Estimating Numbers	hundreds	multiplication and division using	equal parts and in dividing one	such as a.m./p.m.,	a right angle	presented in scaled bar	division, including integer
	Identify, represent and		the multiplication tables that	 digit numbers or quantities 	morning, afternoon, noon	Identify horizontal and	charts and pictograms and	scaling (copied from
	estimate numbers using	Written Methods	they know, including for two-	by 10	and midnight (appears also	vertical lines and pairs of	tables	Multiplication and Division)
	different representations	Add and subtract numbers	digit numbers times one-digit	Recognise and use fractions as	in Telling the Time)	perpendicular and parallel		, ,
		with up to three digits,	numbers, using mental and	numbers: unit fractions and	Measuring & Calculating	lines		
	Reading & Writing Numbers	using formal written	progressing to formal written	non-unit fractions with small	Measure, compare, add			
	Read and write numbers up	methods of columnar	methods (appears also in	denominators	and subtract: lengths			
	to 1000 in numerals and in	addition and subtraction	Written Methods)		(m/cm/mm); mass (kg/g);			
	words			Comparing Fractions	volume/capacity (I/mI)			
	Tell and write the time from	Inverse Operations, Estimating	Written Calculation	Compare and order unit	Measure the perimeter of			
	an analogue clock, including	& Checking Answers	Write and calculate	fractions, and fractions with	simple 2-D shapes			
	using Roman numerals from I	Estimate the answer to a	mathematical statements for	the same denominators	Measuring & Counting Money			
	to XII, and 12-hour and 24-	calculation and use	multiplication and division using		Add and subtract amounts			
Y3	hour clocks (copied from	inverse operations to	the multiplication tables that	Equivalence (Including Fractions,	of money to give change,			
13	Measurement)	check answers	they know, including for two-	Decimals & Percentages)	using both £ and p in			
		Buchlana Calida a	digit numbers times one-digit	Recognise and show, using	practical contexts			
	<u>Understanding Place Value</u>	Problem Solving	numbers, using mental and	diagrams, equivalent fractions	Telling The Time			
	Recognise the place value of	Solve problems, including	progressing to formal written	with small denominators	Tell and write the time			
	each digit in a three-digit	missing number problems, using number facts, place	methods (appears also in Mental Methods)	Addition College at an Of	from an analogue clock,			
	number (hundreds, tens,	value, and more complex	Werital Wethods)	Addition & Subtraction Of Fractions	including using Roman numerals from I to XII, and			
	ones)	addition and subtraction	Inverse Operations, Estimating &	Add and subtract fractions	12-hour and 24-hour clocks			
	Problem Solving		Checking Answers	with the same denominator	Estimate and read time			
	Solve number problems and		Estimate the answer to a		with increasing accuracy to			
	practical problems involving		calculation and use inverse	within one whole (e.g. $\frac{3}{7} + \frac{1}{7}$	the nearest minute; record			
	these ideas		operations to check answers	= 6/7)	and compare time in terms			
			(copied from Addition and	′7′	of seconds, minutes, hours			
			Subtraction)	Buchlam Californ	and o'clock; use vocabulary			
				Problem SolvingSolve problems that involve all	such as a.m./p.m.,			
			Problem Solving	of the above	morning, afternoon, noon			
			 Solve problems, including 	of the above	and midnight			
			missing number problems,		Converting			
			involving multiplication and		Know the number of			
			division, including positive		seconds in a minute and			
			integer scaling problems and		the number of days in each			
			correspondence problems in		month, year and leap year			
			which n objects are connected					
			to m objects					



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	NUMBER & PLACE VALUE	ADDITION & SUBTRACTION	MULTIPLICATION & DIVISION	FRACTIONS	MEASUREMENT	PROPTERTIES OF SHAPE	POSITION & DIRECTION	STATISTICS	ALGEBRA
	Counting	Written Methods	Multiplication & Division	Counting in Fractional Steps	Comparing & Estimating	Identifying Shapes &	Position, Direction &	Interpreting,	<u>Formulae</u>
	 Count backwards through 	 Add and subtract 	<u>Facts</u>	Count up and down in	Estimate, compare and	Their Properties	<u>Movement</u>	Constructing &	 Perimeter can be
	zero to include negative	numbers with up	• Count in multiples of 6, 7,	hundredths	calculate different	 Identify lines of 	 Describe positions 	Presenting Data	expressed
	numbers	to 4 digits using	<i>9, 25 and 1 000</i> (copied	Recognising Fractions	measures, including	symmetry in 2-D	on a 2-D grid as	 Interpret and 	algebraically as 2(a
	• Count in multiples of 6, 7,	the formal written	from Number and Place	 Recognise that hundredths 	money in pounds and	shapes presented	coordinates in the	present discrete	+ b) where a and b
	9, 25 and 1000	methods of	Value)	arise when dividing an object	pence	in different	first quadrant	and continuous	are the dimensions
	 Find 1000 more or less 	columnar addition	Recall multiplication and	by one hundred and dividing	Measuring & Calculating	orientations	 Describe 	data using	in the same unit.
	than a given number	and subtraction	division facts for	tenths by ten	Estimate, compare and	Drawing &	movements	appropriate	(Copied from
	Comparing Numbers	where appropriate	multiplication tables up	Comparing Decimals	calculate different	Construction	between positions	graphical methods,	measurement)
	Order and compare		to 12 × 12	Compare numbers with the	measures, including	Complete a simple	as translations of a	including bar charts	
	numbers beyond 1000	Inverse Operations,	Mental Calculation	same number of decimal	money in pounds and	symmetric figure	given unit to the	and time graphs	
	 Compare numbers with 	Estimating & Checking	Use place value, known	places up to two decimal	pence	with respect to a	left/right and	Solving Problems	
	the same number of	Answers	and derived facts to	places	Measure and calculate	specific line of	up/down	Solve comparison,	
	decimal places up to two	Estimate and use	multiply and divide	Rounding Including Decimals	the perimeter of a	symmetry	 Plot specified 	sum and difference	
	decimal places	inverse operations	mentally, including:	Round decimals with one	rectilinear figure	Comparing &	points and draw	problems using	
	 (copied from Fractions) 	to check answers	multiplying by 0 and 1;	decimal place to the nearest	(including squares) in	Classifying	sides to complete a	information	
	Identifying, Representing &	to a calculation	dividing by 1; multiplying	whole number	centimetres and	Compare and	given polygon	presented in bar	
	Estimating Numbers	Duahlam Caluina	together three numbers	Equivalence (Including Fractions,	metres	classify geometric		charts, pictograms,	
	Identify, represent and	Problem Solving	Recognise and use factor	Decimals & Percentages)	Measuring & Counting	shapes, including		tables and other	
	estimate numbers using	Solve addition and	pairs and commutativity	Recognise and show, using	Money	quadrilaterals and		graphs	
	different representations	subtraction two-	in mental calculations	diagrams, families of common	Find the area of restilinear shapes by	triangles, based on			
	Reading & Writing Numbers	step problems in contexts, deciding	(appears also in	equivalent fractions	rectilinear shapes by	their properties and sizes			
	Read Roman numerals to	which operations	Properties of Numbers) Written Calculation	Recognise and write decimal	counting squares Telling The Time	Angles			
	100 (I to C) and know that	and methods to	Multiply two-digit and	equivalents of any number of	Read, write and	Identify acute and			
	over time, the numeral	use and why	three-digit numbers by a	tenths or hundredths	convert time between	obtuse angles and			
	system changed to include	ase and willy	one-digit number using	Recognise and write decimal 1 1 3	analogue and digital 12	compare and order			
	the concept of zero and place value		formal written layout	equivalents to $\frac{1}{4}$; $\frac{1}{2}$; $\frac{3}{4}$	and 24-hour clocks	angles up to two			
Y4	Understanding Place Value		Properties of Numbers:	Addition & Subtraction of	Solve problems	right angles by size			
	Recognise the place value		Multiples, Factors, Square &	Fractions	involving converting	Tight drigies by size			
	of each digit in a four-digit		Cube Numbers	Add and subtract fractions	from hours to minutes;				
	number (thousands,		recognise and use factor	with the same denominator	minutes to seconds;				
	hundreds, tens, and ones)		pairs and commutativity	Multiplication & Division of	years to months;				
	Find the effect of dividing		in mental calculations	Decimals	weeks to days				
	a one- or two-digit		(repeated)	Find the effect of dividing a	Converting				
	number by 10 and 100,		Inverse Operations,	one- or two-digit number by	Convert between				
	identifying the value of		Estimating & Checking	10 and 100, identifying the	different units of				
	the digits in the answer as		Answers	value of the digits in the	measure (e.g.				
	units, tenths and		Estimate and use inverse	answer as ones, tenths and	kilometre to metre;				
	hundredths (copied from		operations to check	hundredths	hour to minute)				
	Fractions)		answers to a calculation	Problem Solving	Read, write and				
	Rounding		(copied from Addition	Solve problems involving	convert time between				
	Round any number to the		and Subtraction)	increasingly harder fractions to	analogue and digital 12				
	nearest 10, 100 or 1000		Problem Solving	calculate quantities, and	and 24-hour clocks				
	Round decimals with one		Solve problems involving	fractions to divide quantities,	(appears also in				
	decimal place to the		multiplying and adding,	including non-unit fractions	Converting)				
	nearest whole number		including using the	where the answer is a whole number	Solve problems				
	 (copied from Fractions) 		distributive law to	Solve simple measure and	involving converting				
	Problem Solving		multiply two digit	money problems involving	from hours to minutes;				
	Solve number and		numbers by one digit,	fractions and decimals to two	minutes to seconds;				
	practical problems that		integer scaling problems	decimal places	years to months;				
	involve all of the above		and harder	decimal places	weeks to days (appears				
	and with increasingly		correspondence		also in Telling the				
	large positive numbers		problems such as n		Time)				
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	NUMBER & PLACE VALUE	ADDITION & SUBTRACTION	MULTIPLICATION & DIVISION	FRACTIONS	MEASUREMENT	PROPTERTIES OF SHAPE	POSITION & DIRECTION	STATISTICS	ALGEBRA
	Counting	Mental Calculation	Multiplication & Division Facts	Recognising Fractions	Comparing & Estimating	Identifying Shapes &	Position, Direction &	Interpreting,	Equations
	Interpret negative	 Add and subtract 	 Count forwards or backwards in 	Recognise and use thousandths and	Calculate and compare the area	Their Properties	<u>Movement</u>	Constructing &	 Use the properties
	numbers in context, count	numbers mentally	steps of powers of 10 for any	relate them to tenths, hundredths	of squares and rectangles	Identify 3-D	 Identify, describe 	Presenting Data	of rectangles to
	forwards and backwards	with increasingly	given number up to	and decimal equivalents (appears	including using standard units,	shapes, including	and represent the	 Complete, read and 	deduce related
	with positive and negative	large numbers	1 000 000 (copied from Number	also in Equivalence)	square centimetres (cm ²) and	cubes and other	position of a shape	interpret	facts and find
	whole numbers, including	Written Methods	and Place Value)	Comparing Fractions	2	cuboids, from	following a	information in	missing lengths and
	through zero	 Add and subtract 	Mental Calculation	Compare and order fractions whose	square metres (m ⁻) and	2-D	reflection or	tables, including	angles (copied from
	 Count forwards or 	whole numbers	 Multiply and divide numbers 	denominators are all multiples of	estimate the area of irregular	representations	translation, using	timetables	Geometry:
	backwards in steps of	with more than 4	mentally drawing upon known	the same number	shapes (also included in	Drawing &	the appropriate	Solving Problems	Properties of
	powers of 10 for any given	digits, including	facts	Comparing Decimals	measuring)	Construction	language, and know	 Solve comparison, 	Shapes)
	number up to 1000 000	using formal	Multiply and divide whole	Read, write, order and compare	Estimate volume (e.g. using 1	Draw given	that the shape has	sum and difference	
	Comparing Numbers	written methods	numbers and those involving	numbers with up to three decimal	cm ³ blocks to build cubes and	angles, and	not changed	problems using	
	Read, write, order and	(columnar addition	decimals by 10, 100 and 1000	places	cuboids) and capacity (e.g. using	measure them in		information	
	compare numbers to at	and subtraction)	Written Calculation	Rounding Including Decimals	water)	degrees (°)		presented in a line	
	least 1 000 000 and	Inverse Operations,	Multiply numbers up to 4 digits by	Round decimals with two decimal	Measuring & Calculating	Comparing &		graph	
	determine the value of	Estimating & Checking	a one- or two-digit number using a	places to the nearest whole number	Use all four operations to solve	Classifying			
	each digit (appears also in	Answers	formal written method, including	and to one decimal place	problems involving measure	Use the			
	Reading and Writing	Use rounding to	long multiplication for two-digit	Equivalence (Including Fractions,	(e.g. length, mass, volume,	properties of			
	Numbers)	check answers to	numbers	Decimals & Percentages)	money) using decimal notation	1 ' '			
	Reading & Writing Numbers	calculations and	Divide numbers up to 4 digits by a	Identify, name and write equivalent	including scaling.	rectangles to			
	Read, write, order and	determine, in the	one-digit number using the formal	fractions of a given fraction,	Measure and calculate the	deduce related			
	compare numbers to at	context of a	written method of short division	represented visually, including	perimeter of composite	facts and find			
	least 1 000 000 and	problem, levels of	and interpret remainders	tenths and hundredths	rectilinear shapes in centimetres	missing lengths			
	determine the value of	accuracy	appropriately for the context	Read and write decimal numbers as	and metres	and angles			
	each digit (appears also in	Problem Solving	Properties of Numbers: Multiples,	71	Measuring & Counting Money	Distinguish			
	Comparing Numbers)	Solve addition and	Factors, Square & Cube Numbers	fractions (e.g. $0.71 = \frac{1}{100}$)	Calculate and compare the area	between regular			
	Read Roman numerals to	subtraction multi-	Identify multiples and factors,	Recognise and use thousandths and	of squares and rectangles	and irregular			
	1000 (M) and recognise	step problems in	including finding all factor pairs of	relate them to tenths, hundredths	including using standard units,	polygons based			
	years written in Roman	contexts, deciding	a number, and common factors of	and decimal equivalents	2	on reasoning			
	numerals.	which operations	two numbers.	Recognise the per cent symbol (%)	square centimetres (cm) and	about equal			
Y5	Understanding Place Value	and methods to	Know and use the vocabulary of	and understand that per cent	square metres (m ²) and	sides and angles			
	Read, write, order and	use and why	prime numbers, prime factors and	relates to "number of parts per	estimate the area of irregular	Angles			
	compare numbers to at	,	composite (non-prime) numbers	hundred", and write percentages as	shapes	Know angles are			
	least 1000 000 and		Establish whether a number up to	a fraction with denominator 100 as	Recognise and use square	measured in			
	determine the value of		100 is prime and recall prime	a decimal fraction	numbers and cube numbers,	degrees:			
	each digit (appears also in		numbers up to 19	Addition & Subtraction of Fractions	and the notation for squared ()	estimate and			
	Reading and Writing		Recognise and use square	Add and subtract fractions with the	2 ' ' ' '	compare acute,			
	Numbers)		numbers & cube numbers, and	same denominator and multiples of	and cubed ()	obtuse and			
	Recognise and use		2	the same number	(copied from Multiplication and	reflex angles			
	thousandths and relate		the notation for squared () and	Recognise mixed numbers and	Division)	identify:			
	them to tenths,		cubed (³)	improper fractions and convert from	Telling The Time	o angles at a point			
	hundredths and decimal		Problem Solving	one form to the other and write	Solve problems involving	and one whole			
	equivalents (copied from		Solve problems involving	mathematical statements > 1 as a	converting between units of	turn (total 360°)			
	Fractions)		multiplication and division	mixed number (e.g. $^{2}/_{5} + ^{4}/_{5} = ^{6}/_{5} =$	time	o angles at a point			
	Rounding		including using their knowledge of		Converting	on a straight line			
	Round any number up to 1		factors and multiples, squares and	1 1/,)	Convert between different units	and ½ a turn			
	000 000 to the nearest 10,		cubes	3	of metric measure (e.g.	(total 180°)			
	100, 1000, 10 000 and 100		 Solve problems involving addition, 	Multiplication & Division Of Fractions	kilometre and metre;	o other multiples			
	000		subtraction, multiplication and	Multiply proper fractions and mixed	centimetre and metre;				
	Round decimals with two		division and a combination of	numbers by whole numbers,	centimetre and millimetre; gram	of 90°			
	decimal places to the		these, including understanding the	supported by materials and	and kilogram; litre and millilitre)				
	nearest whole number and		meaning of the equals sign	diagrams	Solve problems involving				
	to one decimal place		Solve problems involving	Problem Solving	converting between units of				
	(copied from Fractions)		multiplication and division,	Solve problems involving numbers	time				
	Problem Solving		including scaling by simple	up to three decimal places	Understand and use				
	Solve number problems		fractions and problems involving	Solve problems which require	equivalences between metric				
	and practical problems that		simple rates	knowing percentage and decimal	units and common imperial				
	involve all of the above		·	equivalents of ¹ / ₂ , ¹ / ₄ , ¹ / ₅ , ² / ₅ , ⁴ / ₅ and	units such as inches, pounds and				
	involve an of the above			those with a denominator of a	pints				
				multiple of 10 or 25					
	1		I .		<u>I</u>	I	I	1	1



	NUMBER & PLACE VALUE	ADDITION & SUBTRACTION	MULTIPLICATION & DIVISION	FRACTIONS	MEASUREMENT	PROPTERTIES OF SHAPE	POSITION & DIRECTION	STATISTICS	RATIO & PROPORTION	ALGEBRA
Υ6	Counting Use negative numbers in context, and calculate intervals across zero Comparing 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) Reading & Writing Numbers Read, write, order and compare numbers up to 10 000000 and determine the value of each digit (appears also in Understanding Place Value) Understanding Place Value Read, write, order and compare numbers up to 10 000000 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 Round any whole number to a required degree of accuracy Solve problems which require answers to be rounded to specified degrees of accuracy (copied from Fractions) Problem Solving Solve number and practical problems that involve all of the above	Mental Calculation Perform mental calculations, including with mixed operations and large numbers Use their knowledge of the order of operations to carry out calculations involving the four operations Written Methods Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs (appears also in Mental Calculation) Inverse Operations, Estimating & Checking Answers Use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy. Problem Solving Solve addition and subtraction multistep problems in contexts, deciding which operations and methods to use and why Solve problems involving addition, subtraction, multiplication and division	Mental Calculation 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. ³/s) Written Calculation 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 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 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 Properties of Numbers: Multiples, Factors, Square & Cube Numbers Identify common factors, common multiples and prime numbers Use common factors to simplify fractions; use common multiples to express fractions in the same denomination Calculate, estimate and compare volume of cubes and cuboids using standard units, including cm & m , and extending to other units such as mm and km Order of Operations Use their knowledge of the order of operations. Estimating & Checking Answers Solve problems involving addition, subtraction, multiplication and division Solve problems involving similar shapes where the scale factor is known or can be found	Comparing Fractions Comparing Decimals Identify the value of each digit in numbers given to three decimal places Rounding Including Decimals Solve problems which require answers to be rounded to specified degrees of accuracy Equivalence (Including Fractions, Decimals & Percentages) Use common factors to simplify fractions; use common multiples to express fractions in the same denomination Associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fractions, decimals and percentages, including in different contexts. Addition & Subtraction Of Fractions Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions Multiplication & Division Of Fractions Multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. 1/4 × 1/2 = 1/8) Multiply one-digit numbers with up to two decimal places by whole numbers Divide proper fractions by whole numbers Multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places Multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places Multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places Multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places Multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places 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	Comparing & Estimating Calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm) and cubic metres (m), and extending to other units such as mm and km. Measuring & Calculating Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate Recognise that shapes with the same areas can have different perimeters and vice versa Measuring & Counting Money Calculate the area of parallelograms and triangles Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm), and extending to other units [e.g. mm and km]. Recognise when it is possible to use formulae for area and volume of shapes Converting Use, read, write and convert between standard units, convert ing 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 Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate Convert between miles and kilometres	Identifying Shapes & Their Properties Recognise, describe and build simple 3-D shapes, including making nets Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius Drawing & Construction 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) Comparing & Classifying 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 where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles	Position, Direction & Movement Describe positions on the full coordinate grid (all four quadrants) Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.	Interpreting, Constructing & Presenting Data • interpret and construct pie charts and line graphs and use these to solve problems Solving Problems • Calculate and interpret the mean as an average	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.	Equations Express missing number problems algebraically Find pairs of numbers that satisfy number sentences involving two unknowns Enumerate all possibilities of combinations of two variables Formulae Use simple formulae Recognise when it is possible to use formulae for area and volume of shapes (copied from Measurement) Sequences Generate and describe linear number sequences