

Year Group	Areas covered						Knowledge non-negotiables	Terminology	Educational Visits
Reception	Number	Number	Number	Number	Number	Number	ELG11 - Numbers		
	Introduction to Ten	Ten Town	Ten Town	Ten Town	Ten Town	Ten Town	Children count reliably with numbers	Counting	
	Town.	Count an	Records, using marks	Children count	Using quantities	Using quantities	from 1 to 20, place them in order and	number	
	Recognise numerals 1-	irregular	that they can	reliably with	and objects, they	and objects, they	say which number is one more or one	zero, one, two, three to	
	10.	arrangement	interpret and explain.	numbers from	add and subtract	add and subtract	less than a given number. Using	twenty and beyond	
	Recognise numerals of	of objects (up to	Children begin to	one to 20, place	two single-digit	two single-digit	quantities and objects, they add and	zero, ten, twenty one	
	personal significance.	10 and beyond).	identify own	them in order	numbers and	numbers and	subtract two single-digit numbers and	hundred	
	Count objects up	Estimate	mathematical	and say which	count on or back	count on or back	count on or back to find the answer.	none	
	5, then 10.	amounts of	problems based on	number is one	to find the	to find the	They solve problems, including	how many?	
	Select the correct	objects	own interests and	more or one less	answer. They	answer. They	doubling, halving and sharing.	count, count (up) to	
	numeral to represent	and check using	fascinations.	than a given	solve problems,	solve problems,		count on (from, to)	
	1-10.	counting.		number.	including	including	ELG12 – Shape, space and measures	count back (from, to)	
	Use language 'fewer'	Use vocabulary	Shape, space and		doubling, halving	doubling, halving	Children use everyday language to talk	count in ones, twos tens	
	and 'more' to	linked to adding	measure	Shape, space and	and sharing.	and sharing.	about size, weight, capacity, position,	more, less, many, few	
	compare, add and	and subtracting.	Children use everyday	measure		Real-life	distance, time and money to compare	odd, even	
	subtract.		language to talk	Children	Shape, space and	problem-solving.	quantities and objects and to solve	every other	
	Say 1 more than		about size, weight,	recognise,	measure		problems. They recognise, create and	how many times?	
	a given number.	Shape, space	capacity, position,	create and	Children explore	Shape, space and	describe patterns. They explore	pattern, pair	
		and measure	time, money and	describe	characteristics of	measure	characteristics of everyday objects and	guess how many, estimate	
	Shape, space and	Order two or	distance.	patterns with 2	everyday objects	Children explore	shapes and use mathematical language	nearly, close to, about the	
	measure	three items	Recognition of some	or 3 colours/	and shapes and	characteristics of	to describe them.	same as	
	Use names for 2D and	by length or	coins.	shapes/ objects/	use	everyday objects		just over, just under	
	3D shapes Select a	height, weight	Begin to	actions.	mathematical	and shapes and		too many, too few, enough,	
	named shape.	and capacity.	read o'clock	Children use mathematical	language to describe them.	use		not enough	
	Recreate patterns and build models.	Use language related to time	and half	vocabulary.	describe them.	mathematical language to			
	bulla models.	and money.		Sort 3D shapes.		describe them.		Comparing and ordering	
		Measure	past.	SOIT 3D Shapes.		Beebots.		numbers	
		short periods of				beenots.		the same number as, as	
		time in simple						many as	
		ways.						Of two objects/amounts:	
		ways.						greater, more, larger, bigger	
								less, fewer, smaller	
		1						Of three or more	
								objects/amounts:	
								greatest, most, biggest,	
								largest	
								least, fewest, smallest	
								one more, ten more	
								one less, ten less	
		1						compare	
								order	



				size
				first, second, third tenth
				last, last but one
				before, after
				next
				between
				above, below
				45575, 551511
				Adding and advanced a
				Adding and subtracting
				add, more, and
				make, sum, total
				altogether
				score
				double
				one more, two more, ten
				more
				how many more to make
				?
				how many more is than?
				take (away), leave
				how many are left/left
				over?
				how many have gone?
				one less, two less ten
				less
				how many fewer is
				than?
				difference between
		1		
		1		is the same as
				Solving problems
				Reasoning about numbers
				or shapes
				pattern
				puzzle
				answer
				right, wrong
		1		what could we try next?
				how did you work it out?
				count, sort
		1		group, set
		1		match
		I		



	1	T	1		
					same, different
					list
					Problems involving 'real life'
					or money
					compare
					double
					half, halve
					pair
					count out, share out
					left, left over
					money
					coin
					penny, pence, pound
					price
					cost
					buy
					sell
					spend, spent
					pay change
					dear, costs more
					cheap, costs less, cheaper
					costs the same as
					how much? how many?
					total
					Measures (general)
					measure
					size
					compare
					guess, estimate
					enough, not enough
					too much, too little
					too many, too few
					nearly class to about the
					nearly, close to, about the
					same as
					just over, just under
					Length
					length, width, height, depth
					long, short, tall
1					high, low
			ĺ		riigri, iow



		wide, narrow
		deep, shallow
		thick, thin
		longer, shorter, taller,
		higher and so on
		longest, shortest, tallest,
		highest and so on
		far, near, close
		iai, ricai, ciosc
		Mari
		Mass
		weigh, weighs, balances
		heavy/light, heavier/lighter,
		heaviest/lightest
		balance, weight, scales
		, , ,
		Capacity
		full
		half full
		empty
		holds
		container
		Time
		time
		days of the week: Monday,
		Tuesday
		day, week
		birthday, holiday
		morning, afternoon,
		evening, night
		bedtime, dinnertime,
		playtime
		today, yesterday, tomorrow
		before, after
		next, last
		now, soon, early, late
		quick, quicker, quickest,
		quickly
		slow, slower, slowest,
		slowly
		old, older, oldest



				new, newer, newest
				takes longer, takes less time
				hour, o'clock
				clock, watch, hands
				,,
				Exploring patterns, shape
				and space
				shape, pattern
				flat
				curved, straight
				round
				hollow, solid
				corner
				face, side, edge, end
				sort
				make, build, draw
				3D shapes
				cube
				pyramid
				sphere
				cone
				2D shapes
				circle
				triangle
				square
				rectangle
				star
				Patterns and symmetry
				size
				bigger, larger, smaller
				symmetrical
				pattern
				repeating pattern match
				matti
				Desition dispetion and
				Position, direction and
				movement
•	L			· · · · · · · · · · · · · · · · · · ·



				position	
				over, under	
				above, below	
				top, bottom, side	
				on, in	
				outside, inside	
				around	
				around	
				in front, behind	
				front, back	
				before, after	
				beside, next to	
				opposite	
				apart	
				between	
				middle, edge	
				corner	
				direction	
				left, right	
				up, down	
				tp, down	
				forwards, backwards,	
				sideways	
				across	
				close, far, near	
				along	
				through	
				to, from, towards, away	
				from	
				movement	
				slide	
				roll	
				turn	
				stretch, bend	
				St. Sterry Berra	
				la atmostica a	
				Instructions	
				listen	
				join in	
				say	
				think	
				imagine	
				remember	
				Temember	



		start from
		start with
		start at, look at
		point to
		show me, put, place
		fit
		arrange
		rearrange
		change, change over
		split
		separate, carry on, continue
		repeat
		what comes next? find
		choose
		collect, use
		make
		build
		tell me
		describe
		pick out
		talk about
		explain
		show me road
		show me, read
		write
		trace
		сору
		complete
		finish, end
		fill in
		shade
		colour
		4:-1
		tick, cross
		draw
		draw a line between
		join (up)
		ringcost
		count
		work out



								answer	
								check	
								General	
								General	
								same number/s	
								different number/s	
								missing number/s	
								number facts	
								number line, number track	
								number square	
								number cards	
								counters, cubes, blocks,	
								rods	
								die. dice	
								dominoes	
								pegs, peg board	
								same way, different way	
								best way, another way	
								in order, in a different order	
								not	
								all, every, each	
								all, every, each	
Year 1	Maths White Rose	Maths White Rose	Maths White Rose	Maths White Rose	Maths White	Maths White Rose	Number and Place Value	Number and Place Value	
	Planning	Planning	Planning	Planning	Rose Planning	Planning	 Count to and across 100, 	Ten more/less, digit,	
	Number: Place	Geometry: Shape,	Addition and	Measurement:	Number:	Number: Place	forward & backwards,	numeral, figure(s),	
	Value (within10)	Number: Place Value	Subtraction	Length and Height	Multiplication	Value (within 100)	beginning with 0 or 1 from	compare, (in) order/a	
	Number: Addition	(within 20),	(within 20)	Measurement:	and Division	Measurement:	any number.	different order, size, value,	
	and Subtraction	Consolidation	Number Place	Weight and Volume	(Reinforce	Time	 Count in multiples of 2,5, 	between, halfway between,	
	(within 10)	Time	Value (within	Consolidation	multiples of 2,5,	Consolidation	and 10	above, below, tens, ones	
	Time		50)(Multiples of	Time	and 10 to be		 Count, read and write 	Addition and Subtraction	
			2, 5, and 10		included)		numbers to 100 in numerals.	Number bonds, number	
			included)		Number		Say what is one more or one	line, add, more, plus, make,	
			Time		Fractions		less than any number.	sum, total, altogether,	
					Geometry:		,	inverse, double, near	
					Position and		Calculations	double, equals, is the same	
					Direction		Represent and use number	as (including equals sign),	
					Time		bonds and related	difference between,	
							subtraction facts within 20.	subtract, take away, minus	
							Subtraction facts within 20.	· · · · · · · · · · · · · · · · · · ·	



				•	Add and subtract 1-digit and	How many more to make	
					2-digit numbers to 20,	? How many more is	
					including zero.	than ?, How much more	
				•	Read, write and interpret	is ?, How many fewer is	
					mathematical statements	than ?, How much less is	
					involving addition (+),	?	
					subtraction (-) and equals (=)	Multiplication and Division	
					signs.	Once, twice, three, five	
					Solve one-step problems	times, multiple of times	
					involving multiplication and	A decided to the second	
					division, by using concrete	Multiply, multiply by,	
					objects, pictorial	repeated addition, array,	
					representations and arrays.	row, column, double, halve,	
					,	share, share equally, group	
				Fractions		in pairs, threes, etc., equal	
					Recognise, find, and name a	groups of, divide, divided	
					half, quarter of an object,	by, left over	
					shape or quantity.	Measure	
					shape of quantity.	Time, days of the week,	
				Measurem	ent	seasons, day, week, month,	
					Compare, describe and solve	year, weekend, birthday,	
					practical problems for	holiday, morning,	
					lengths and heights;	afternoon, evening, night,	
					mass/weight; capacity and	midnight, bedtime,	
					volume; and time.	dinnertime, playtime,	
					,	today, yesterday, tomorrow	
					Measure and begin to	Before, after, next, last,	
					record lengths and heights;	now, soon, early, late,	
					mass/weight; capacity and	quick, quicker, quickest,	
					volume; and time.	quickly, fast, faster, fastest,	
					Recognise and know the	slow, slower, slowest,	
					value of different	slowly, old, older, oldest,	
					denominations of coins and	new, newer, newest	
					notes.		
					Tell the time to the hour and	Takes longer, takes less	
					half past and draw the	time, hour, o'clock, half	
					hands on a clock face to	past, clock, watch, hands,	
					show time.	how long ago?, How long	
				•	Tell the time to half past the	will it be to ?, How long	
					hour.	will it take to ?, How	
					Sequence events in	often?, always, never,	
					chronological order using	often, sometimes, usually,	
					language.	once, twice, first, second,	
	·	-	•	•		•	



		third, etc., estimate, close
	Geometry (position and direction)	to, about the same as, just
	Describe position, directions	over, just under, too many,
	and movement, including	too few, not enough,
	half, quarter and three-	enough
	quarter turns.	
		Length, width, height,
	Geometry (properties of shape)	depth, long, longer, longest,
	Recognise and name 2D	short, shorter shortest, tall,
	shapes (rectangle, including	taller, tallest, high, higher,
	squares, circles, and	highest, Low, wide, narrow,
	triangles).	deep, shallow, thick, thin,
	Recognise and name 3D	far, near, close, metre, ruler,
	shapes (cuboids, including	metre stick
	cubes, pyramids and	How much?, How many?,
	spheres).	money, coin, penny, pence,
	Sprieres).	pound, price, cost, buy, sell,
		spend, spent, pay, change,
		dear(er), costs more, costs
		less, cheaper, costs the
		same as, total
		Geometry (position and
		direction)
		Before, after, beside, next
		to, opposite, apart,
		between, middle, edge,
		centre, corner, direction,
		journey, left, right, up,
		down, forwards, backwards,
		sideways, across, close, far,
		near, along, through, to,
		from, towards, away from,
		movement, slide, roll, turn,
		whole turn, half turn,
		stretch, bend
		Screen, seria
		Geometry (properties of
		shape)
		Corner (point, pointed),
		face, side, edge, make,
		build, draw
		Suna, araw
		Fractions



			I	Whole, equal parts, four	
				equal parts, one half, two	
				halves, a quarter, two	
				quarters	
				Problem Solving	
				Change, change over, split,	
				separate, carry on,	
				continue, repeat, what	
				comes next?, find, choose,	
				collect, use, make, build	
				Tell me, describe, pick out,	
				talk about, explain, show	
				me, read, write, record,	
				trace, copy, complete,	
				finish, end, fill in, shade,	
				colour, tick, cross, draw,	
				draw a line between, join	
				(up), ring, arrow	
				(up), mig, arrow	
				Cost, count, work out,	
				answer, check same	
				number(s)/different	
				number(s)/missing	
				number(s)	
				Number facts, number line,	
				number track, number	
				square, number cards,	
				abacus, counters, cubes,	
				blocks, rods, die, dice,	
				dominoes, pegs, peg board	
				Same way, different way,	
				best way, another way, in	
				order, in a different order,	
				not all, every, each	



Year 2 Place value -Place value -identify 1 Place value -Place value -read Place value -Place value -Number and Place Value Number and Place Value counting to and more/1 less from any recognise the and write numbers identify 1 identify the place Count in steps of 2, 3 and 5. across 100, given number, using place value of in words and more/1 less value of each digit Read and write numbers to forwards and objects and pictorial each digit in a 2numerals. Problem from any given in a 2-digit at least 100 in numerals and recombine, more/less backwards from rep. read and write digit number. solve using number number, read number. in words. any given numbers 1-20 in Estimating facts and place and write Estimating Addition and Subtraction Compare and order number. Count words and numbers. numbers. value. numbers 1-20 numbers. See Year 1 numbers from 0 up to 100; read and write Multiplication and in words and Shape -recognise and Compare and Compare and using < > = signs numbers in name 3D shapes order numbers Division -x2 x5 x10 numbers. order numbers Recognise the place value of Position and numerals and in (cuboids, pyramids using >. < = x3 tables using using > . < = See Year 1 each digit in a 2 digit steps of 2. 5. 10 and spheres) Direction symbols. knowledge to apply symbols number. and 3. Addition and Addition and to find division facts. whole turn, half Position and Measure Use place value and number Multiplication and **Direction** -order Subtraction -apply Subtraction -apply Statistics, Shape, turn, quarter facts to solve problems. Division -odd and mental and written inverse number Fractions -write and threeobiects in kilometres, grams. even numbers methods Addition operations to find simple fractions ½ of quarter turns. patterns and Calculations Addition and can be missing numbers. 6 = 3. Fractions seauences. Recall and use addition and Subtraction -solve communicative and Multiplication and Measurement recognise Shape -compare subtraction facts to solve problems using subtraction cannot **Division**. -solving and sort 2D and compare, measure, equivalent problems. concrete objects Fractions -to one-step record and solve fractions 2/4 = 3D shapes and Add and subtract mentally and pictorial recognise quarter of problems by using problems involving everyday objects direction) and using objects, including representations. an object, shape or concrete objects. capacity and Shape -2D Money -solving two, 2 digit numbers. Recall and use quantity. arravs and volume, time. shape -shapes problems Recognise and use the facts to 20 to Statistics -interpret pictorial Shape -2D shapes on the surface including giving inverse relationship relate to 100. simple pictograms, representations. no. of sides/lines of of a 3D shape. change. angle between addition and Fractions -to tally charts, block Fractions symmetry. 3D shape Money subtraction and use this to recognise half of -no. of edges, diagrams and tables. recognise, find recognise £ check calculations and an object, shape Time -telling the time and name 1/4. vertices and faces. (pound) and p missing number problems. or quantity, to hour, half past, 1/3,2/4 and 3/4 of a Statistics -construct (pence) shape) Recall and use multiplication Money - recognise guarter past and length, shape, set simple pictograms, combining and division facts for the 2, and know coin quarter to. of objects or tally charts, block amounts. Find 5, 10x tables, including different coin and note values. Measurement quantity. diagrams and tables. recognising odd and even Shape -recognise compare, measure, Measurement combinations. numbers. and name 2D record and solve estimate, Time -compare Solve problems involving shapes problems involving measure length and sequel multiplication and division. intervals of Fractions (rectangles, capacity and volume, using materials, arrays, circles triangles) time time. repeated addition, mental Measurement third, equivalence, methods, and multiplication compare, equivalent and division facts, including measure, record problems in context. and solve Data /Statistics Show that multiplication of problems involving -length

two numbe4rs can be done in any order (commutative)

Numbers to one hundred, hundreds, partition,

Multiplication and Division

Quarter past/to, metres, kilograms, millimetres, litres, temperature, degrees

Geometry (position and

Rotation, clockwise, anticlockwise, straight line. ninety degree turn, right

Geometry (properties of

Size, bigger, larger, smaller, symmetrical, line of symmetry, fold, match, mirror line, reflection, pattern, repeating pattern

Three quarters, one third, a

Count, tally, sort, vote, graph, block graph, pictogram, represent,



and height, mass	and division of one number	group, set, list, table, label,
and weight	by another cannot.	title, most popular, most
		common, least popular,
Time -sequencing	Fractions	least common
events vocab	Recognise, find, name and	
morning,	write 1/3, ¼, 2/4, and ¾ of a	Problem Solving
afternoon,	length, shape, set of objects	Predict, describe the
evening, today,	or quantity.	pattern, describe the rule,
yesterday,	Write simple fractions EG ½	find, find all, find different,
tomorrow, before	of 6 = 3	investigate
and after.		
	Measurement	
	Compare and order lengths,	
	mass, volume/capacity and	
	record the results using ><	
	and =.	
	Chose and use standard	
	units to estimate and	
	measure length/height,	
	mass, temperature, and	
	capacity.	
	Recognise and use the	
	symbols for £ and p and	
	combine amounts to make	
	particular value and give	
	change.	
	Tell and write the time to	
	five minutes, including	
	quarter to/past and draw	
	the hands on a clock face to	
	show these times.	
	Compare and sequence	
	intervals of time.	
	intervals of time.	
	Geometry properties of shape	
	Compare and sort common	
	2D shapes and everyday	
	objects.	
	Compare and sort common	
	3D shapes and everyday	
	objects.	
	objects.	



						1				
							Geometr	y – Position and Direction		
							•	Order and arrange		
								combinations of		
								mathematical objects in		
								patterns and sequences.		
							•	Use mathematical		
								vocabulary to describe		
								position, direction and		
								movement (including		
								movement in a straight line		
								and distinguishing between		
								rotation as a turn and in		
								terms of right angles for		
								quarter, half and three-		
								quarter turns (clockwise and		
								anti-clockwise).		
								anti-ciockwise).		
							Statistics			
							•	Interpret and construct		
								simple pictograms, tally		
								charts, block diagrams,		
								simple tables.		
								Ask and answer simple		
							_	questions by counting the		
								number of objects in each		
								category and sorting the		
								categories by quantity.		
Year 3	Number and	Addition and	Multiplication and	Measurement –	Fractions	Geometry –	Number	and Place Value	Number and Place Value	
icai 3	place value	subtraction	division.	length and	Tractions	Properties of		Count in multiplies of 4, 8,	Numbers to one thousand	
	prace value	SUBLIGUIUII	uivisioii.		Measurement –	Shapes	•	Count in multiplies of 4, 8, 50 and 100.	Addition and Subtraction	
	Addition and	Multiplication and	Maasuramant	perimeter	Time	Silapes			Column addition and	
	subtraction	division.	Measurement –	Fractions	mile	Measurement –	•	Compare and order	subtraction	
	Subtraction	uivisioii.	Money	FIACTIONS	Drahlam salvin -	Mass and		numbers from 0 up to 1000	Subtraction	
	Droblem selvir -	Droblem solving sol	Statistics	Droblom colving	Problem solving		•	Use place value and number	Multiplication and Division	
	Problem solving	Problem solving and	Droblom!::	Problem solving and	and reasoning.	Capacity		facts to solve problems.		
	and reasoning.	reasoning.	Problem solving	reasoning.	Time and Tables	Dualdana aabiin -	1		Product, multiples of four,	
	Time as Tables	Times Tables	and reasoning.	T: T	Times Tables	Problem solving	Calculation		eight, fifty and one	
	Times Tables	Times Tables	Times Tables	Times Tables		and reasoning.	•	Add and subtract numbers	hundred, scale up	
			Times Tables			T T.		mentally including HTU +U,	*4	
						Times Tables		HTU+T, HTU+H.	Measure	
							•	Add and subtract numbers	Leap year, twelve-	
								up to 3 digits, using formal	hour/twenty-four-hour	
								written methods.	clock, Roman numerals I to	
									XIII	



 Estimate the answer to a calculation and use the inverse operations to check. Recall and use multiplication and division facts for the 3x, 4x and 8x tables. Count up and down in tenths. Recognise tenths are from dividing objects and quantities in to 10 equal parts and dividing by 10. Compare and order simple fractions. Recognise and show, using diagrams, equivalent fractions with small denominators. Find and write fractions of a set of objects Add and subtract fractions less than 1. Geometry (position and direction) Greater/less than ninety degrees, orientation (same orientation, different orientation) Geometry (properties of shape) Horizontal, perpendicular and parallel lines Fractions Numerator, denominator, unit fraction, non-unit fraction, compare and order, tenths Data Statistics Chart, bar chart, frequency table, Carroll diagram, Venn diagram, axis, axe Problem Solving
Measurement Measure, compare, add and subtract using standard units: length, mass, volume/capacity. Measure the perimeter of a simple 2D shape. Read and write the time from an analogue clock including roman numbers and 12/24 hour clocks Estimate and read time to the nearest minute. Geometry properties of shape



							 Identify horizontal, vertical, perpendicular and parallel lines. Identify whether angles are greater/less than right an angle. Interpret and present data suing bar charts, pictograms and tables. 		
Year 3/4	Place Value Addition and Subtraction	Multiplication and Division	Multiplication and Division Money	Statistics Fractions and Decimals Length, Perimeter and Area	Fractions and Decimals Time	Properties of Shape Position and Direction Mass and Capacity	See Year 3 Objectives Year 4 Objectives Number and Place Value Count backwards through zero to include negative numbers. Recognise the place value of each digit in a 4 digit number. Round any number to the nearest 10, 100, 1000 Calculations Recall multiplication and division facts up to 12 x 12 Use place value, known and derived facts to multiply and divide mentally. Recognise and use factor pairs and commutativity un mental calculations. Multiply using short written method. Fractions, Decimals, Percentages Recognise and use hundredths. Recognise and write decimal equivalents Round decimals with one decimal place to the nearest whole number	Year 4 Number and Place Value Tenths, hundredths, decimal (places), round (to nearest), thousand more/less than, negative integers, count through zero, Roman numerals I to C Addition and Subtraction See Year 3 Multiplication and Division Multiplication facts (up to 12x12), division facts, inverse, derive Measure Convert Geometry (position and direction) Co-ordinate, translate, quadrant, X-axis, Y-axis, perimeter, area Geometry (properties of shape) Quadrilaterals, triangles, right, acute and obtuse angles Fractions and Decimals Equivalent decimals and fractions	



							Compare numbers up to two decimal places. Measurement Convert between different units of measure including money. Find the area of a rectilinear shapes by counting squares. Solve problems converting units of time.	Data/ Statistics Continuous data, line graph Problem Solving	
							Compare and classify geometric shapes including quadrilateral and triangles. Complete a simple symmetric figure with respect to a specific line of symmetry. Describe positions on a 2D grid as coordinates in the first quadrant. Describe translations using a given up/down and left/right. Interpret and present discrete and continuous data on appropriate graphical methods.		
Year 4/5	Place Value, Addition and Subtraction , Multiplication and division . Times tables practice	Length, perimeter and area Problem solving Times Table Practice	Fractions, Decimals Problem solving Times Tables practice	Percentages Problem solving Times tables practice	Money, Time, position and direction, covering units Times tables practice	Statistics, Properties of shapes and volume. Times tables practice	See Year 4 and Year 5 Objectives	See Year 4 and Year 5 Vocab list	



Year 5	Addition and	Multiplication and	Place value	Multiplication and	Addition and	Multiplication and	Number and Place Value	Number and Place Value	
	subtraction	division; fractions	understanding of	division	subtraction	division and	 Interpret negative numbers 	Powers of 10	
	focus on	focus on	place value in larger		focuses on adding	fractions	in context, count forwards		
	establishing a	multiplication	whole numbers and	written methods for	and subtracting		and backwards with positive	Addition and Subtraction	
	robust	and division, and	in decimals; this is	multiplication and	numbers in the	focus on factors	and negative whole	Efficient written method	
	understanding of	extend children's	used to enable	division;	context of money		numbers, including through		
	place value and	understanding of	children to round	2D shapes; angles;	and contextual	calculations with	zero.	Multiplication and Division	
	using this in the	fractions.	any number to the	measures	problems.	fractions; and on	 Read Roman numerals to 	Factor pairs, composite	
	development of	Angles	nearest required		Fractions;	further	1000 including years.	numbers, prime number,	
	addition and	focuses on the	power of ten.	polygons and	multiplication	developing	,	prime factors, square	
	subtraction	concept of angles as	Multiplication and	angles, particularly	focuses on	written methods	Calculations	number, cubed number,	
	calculation	degrees of 'turn', and	division	in relation to	multiplying and	of multiplication	 Recognise square and cube 	formal written method	
	strategies.	on comparison,	calculation	quadrilaterals;	converting	and division.	numbers and notation (cm2		
	Decimals;	identification and	strategies for	metric/imperial	fractions; and on		and cm3)	Measure	
	multiplication and	measurement of	multiplication and	units	short and long	Area and	 Use rounding to check 	Volume, imperial units,	
	division	angles.	division, and on	Fractions	multiplication of	perimeter;	answers to calculations.	metric units	
	multiplying and	Whole numbers,	identifying patterns	revising proper	whole numbers.	volume	 Identify multiples and 		
	dividing to get	decimals and	and rules.	fractions and	Place value and	calculating areas,	factors.	Geometry (position and	
	decimal numbers,	fractions	2D shapes;	equivalent fractions	decimals	perimeters and	Know and use the	direction)	
	and then on mental	comparing and	measures	equivalent nactions	focuses on place	volumes,	vocabulary of prime	Reflex angle, dimensions	
	strategies in	ordering whole	exploring the	Addition and	value in decimals,		numbers, prime factors and		
	multiplication and	numbers and	properties of	subtraction	including	Fractions,	composite numbers.	Geometry (properties of	
	division.	decimals, and on	triangles, naming	to larger / more	multiplying and	decimals and	Multiply and divide whole	shape)	
	Time; length	equivalence in	and identifying the	problem solving	dividing by 10 and		numbers and those involving	Regular and irregular	
	calculating time	relation to proper	different types; and	p. 62.6 56.116	100.		decimals by 10, 100, and	polygons	
	intervals and on	fractions and	then on SI units of		Coordinate	fractions and	1000.		
	measuring lengths	decimals.	measure, reading		geometry; 2D and	decimals, and	 Multiply numbers up to 4 	Fractions	
	in cm and mm		scales and		3D shapes	solving problems	digit by 1-digit or 2-digit	Proper fractions, improper	
	including		conversion		focuses on	by finding	number4 using a formal	fractions, mixed numbers,	
	perimeters.		problems.		plotting, reflecting	percentages of	written method, including	percentage, half, quarter,	
			Addition and		and translating	amounts	long multiplication for 2-	fifth, two fifths, four fifths,	
			subtraction		shapes on	Revision	digit numbers.	ratio, proportion	
			focuses on column		coordinate grids;	: line graphs;	algit Hambers.		
			addition of decimal		and on extending	calculating time	Fraction, Decimals, Percentages	Problem Solving	
			numbers, and on		understanding of	intervals; finding	Recognise mixed numbers		
			mental subtraction		properties of 2D	cubes of	and improper fractions and		
			of decimal		and 3D shapes.	numbers; using	covert.		
			numbers.			factors to	 Compare and order fractions 		
						multiply; and	whose denominators are		
						solving scaling	multiples of the same		
						problems	number.		
						problems	number.		



	involving fractions and measures. • Add and subtract fractions with denominators that are multiples of the same number. • Multiply proper fractions and mixed numbers by whole numbers. • Read and write decimals as fractions. • Round decimals with two decimal places to the nearest whole number and one decimal place. • Read, write, order and compare numbers with up to 3 decimal places. • Recognise the percent symbol (%) and understand	
	that percent relates to 'number parts per hundred'	
	Measurement Understand and use approximate equivalences between metric units and common imperial units. Measure and calculate the perimeter of composite rectilinear shapes in cm and m. Calculate and compare the area of rectangles and including using standard units (cm2 and cm3) to estimate the area of irregular shapes.	
	Geometry • Use the properties of rectangles to deduce related facts and find missing length and angles.	



		Distinguish between regular
		and irregular polygons based
		on reasoning about equal
		sides and angles.
		Identify 3D shapes, including
		cubes and other cuboids,
		from 2D representations.
		Know angles are measured
		in degrees, estimate and
		compare acute, obtuse and
		reflex angles.
		Draw given angles and
		measure them in degrees.
		Identify angles at a point
		and one whole turn, at a
		point on a straight line and a
		half turn.
	•	Identify, describe and
		represent the position of a
		shape following a reflection
		or translation, using the
		appropriate language.
	•	Complete, read and
		interpret information in the
		tables, including times
		tables.



Year 6	Place value,	Fractions simplifying,	Number-	Number- algebra,	Geometry –	Post SATS	Numbers and Place Value	Number and Place Value	$\overline{}$
Teal 0	negative	equivalent, compare	decimals,	ratio, geometry and	Properties of	Project work	Use negative numbers in	Numbers to ten million	
	numbers, 4	and order, 4	percentages,	statistics	shape	Troject work	context, and calculate	Numbers to terriminon	
	operations, word	operations	measurement	Statistics	Geometry-		intervals across zero.	Addition and Subtraction	
	problems	орстанонз	incasarcinent		Position and		littervals across zero.	Order of operations	
	problems				direction		Calculations	Order of operations	
					unection			Multiplication and Division	
							Divide numbers using the	Common factors and	
							formal written method of	common multiples	
							long division, and interpret	Common multiples	
							remainders as appropriate. • Use order of operations to	Measure	
							·	Weasure	
							carry out calculations	Geometry (position and	
							involving the four	direction)	
							operations.	Four quadrants (for co-	
							Use common factors to Simplify for this is a second	ordinates)	
							simplify fractions.	or uniates)	
							Multiply simple pairs of	Geometry (properties of	
							proper fractions.	shape)	
							Fractions, Decimals, Percentages	Vertically opposite (angles),	
							Use common factors to	circumference, radius,	
							simplify fractions.	diameter	
							Compare and order		
							fractions.	Fractions, decimals and	
							Add and subtract fractions	percentages	
							with different	Degree of accuracy, simplify	
							denominators and mixed		
							numbers.	Algebra	
							Multiply simple pairs of	Linear number sequence,	
							proper fractions.	substitute, variables,	
							Calculate decimal fractions	symbol, known values	
							equivalents for simple		
							fractions.	Data/Statistics	
							Multiply a number with up	Mean, pie chart, construct	
							to two decimal places by		
							whole numbers.	Problem Solving	
							Use written division		
1							methods where the answer		
							has up to two decimal		
							places.		



Solve problems involving
the calculations of
percentages.
Recall and use simple
equivalences between
fractions, decimals and
percentages.
Ratio and proportion
Solve problems using ratio
using multiplication and
division.
Solve problems involving
similar shapes where the
scale factor is known.
Solve problems involving
proportion, using
knowledge of fractions and
multiples.
Algebra
Use a simple formulae
Generate and describe
linear number sequences.
Express missing number
problems algebraically.
Measurement
Convert units of measure
between smaller and larger
units and convert miles and
kilometres.
Geometry
Calculate the area of
parallelograms and
triangles.
Calculate, estimate and
compare volumes of cubes
and cuboids.
Illustrate and name parts of
circles.
circies.



	Finds missing angles in triangles, quadrilaterals and regular polygons and recognise vertically opposite and missing angles. Draw positions on the full coordinate grid, draw and translate simple shapes on the coordinate plane and reflect them in the axes.	
	Statistics Interpret and construct pie charts and line graphs. Calculate and interpret the mean as an average.	