## Killigrew Maths Progression Map – Supplementary framework



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	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Check	Estimate a	Practise counting	Use materials and a	Use multiples of 2, 3,	Use a variety of	Identify the place	Use the whole
	quantities	number of	and ordering	range of	4, 5, 8, 10, 50 and 100.	representations,	value in large whole	number system,
	of a number	objects	(including solving	representations to		including measures.	numbers.	including saying,
	by counting	and check	simple concrete	practise counting,	Use larger numbers			reading and writing
	up to 5.	quantities	problems, until they	reading, writing and	to at least 1000,	Understand the order	Use number in	numbers accurately.
		by	are fluent).	comparing numbers	applying partitioning	and place value of	context, including	
		counting		to at least 100.	related to place value	numbers beyond	measurement.	
		up to 20.	Begin to recognise		using varied and	1000, including		
			place value in	Solve a variety of	increasingly complex	counting in tens and	Extend and apply	
			numbers beyond 20	related problems to	problems, building on	hundreds.	their understanding	
			by reading, writing,	develop fluency.	work in year 2.		of the number	
a			counting and			Maintains fluency in	system to the	
alu			comparing numbers	Count in multiples	Use a variety of	other multiples	decimal numbers	
N N			up to 100,	of three to support	representations,	through varied and	and fractions that	
ace			supported by	their later	including those	frequent practice.	they have met so	
Number and Place Value			objects and pictorial	understanding of a	related to measure.		far.	
anc			representations.	third.		Begin to extend		
er					Count in ones, tens	knowledge of the	Recognise and	
qu			Practise counting as	Explore larger	and hundreds, to	number system to	describe linear	
ΝΠ			reciting numbers	numbers to develop	become fluent in the	include the decimal	number sequences,	
_			and counting as	their recognition of	order and place value	numbers and	including those	
			enumerating	patterns within the	of numbers to 1000.	fractions that they	involving fractions	
			objects, and	number system and		have met so far.	and decimals, and	
			counting in twos,	how to represent			find the term-to-	
			fives and tens from	numbers in different		Connect estimation	term rule.	
			different multiples	ways		and rounding		
			to develop their	(including spatial		numbers to the use	Recognise and	
			recognition of	representations).		of measuring	describe linear	
			patterns in the			instruments.	number sequences,	
			number system,	Partition numbers in			including those	
			including varied and	different ways to		Understand that	involving fractions	
			frequent practice	support subtraction.		there have been	and decimals.	

			through increasingly complex questions. Recognise and create repeating patterns with objects and with shapes.	Apply their knowledge of numbers to reason with, discuss and solve problems that emphasise the value of each digit in two- digit numbers. Begin to understand zero as a placeholder.		different ways to write whole numbers (Roman numeral system) and that the important concepts of zero and place value were introduced over a period of time.	Find the term-to- term rule in words.	
	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Nursery	Reception	Memorise and	Extend their	Practise solving	Continue to practise	Practise using the	Practise addition and
	Nursery	Reception	Memorise and reason with number	Extend their understanding of	Practise solving varied addition and	Continue to practise both mental methods	Practise using the formal written	Practise addition and subtraction for larger
	Nursery	Reception	Memorise and reason with number bonds to 10 and 20	Extend their understanding of the language of	Practise solving varied addition and subtraction	Continue to practise both mental methods and columnar	Practise using the formal written methods of	Practise addition and subtraction for larger numbers, using the
и	Nursery	Reception	Memorise and reason with number	Extend their understanding of the language of addition and	Practise solving varied addition and	Continue to practise both mental methods and columnar addition and	Practise using the formal written methods of columnar addition	Practise addition and subtraction for larger numbers, using the formal written
action	Nursery	Reception	Memorise and reason with number bonds to 10 and 20 in several forms.	Extend their understanding of the language of addition and subtraction to	Practise solving varied addition and subtraction questions.	Continue to practise both mental methods and columnar addition and subtraction with	Practise using the formal written methods of columnar addition and subtraction with	Practise addition and subtraction for larger numbers, using the formal written methods of columnar
otraction	Nursery	Reception	Memorise and reason with number bonds to 10 and 20 in several forms. Realise the effect of	Extend their understanding of the language of addition and subtraction to include sum and	Practise solving varied addition and subtraction questions. Understand that for	Continue to practise both mental methods and columnar addition and subtraction with increasingly large	Practise using the formal written methods of columnar addition and subtraction with increasingly large	Practise addition and subtraction for larger numbers, using the formal written methods of columnar addition and
Subtraction	Nursery	Reception	Memorise and reason with number bonds to 10 and 20 in several forms. Realise the effect of adding or	Extend their understanding of the language of addition and subtraction to	Practise solving varied addition and subtraction questions. Understand that for mental calculations	Continue to practise both mental methods and columnar addition and subtraction with increasingly large numbers to aid	Practise using the formal written methods of columnar addition and subtraction with increasingly large numbers to aid	Practise addition and subtraction for larger numbers, using the formal written methods of columnar
ind Subtraction	Nursery	Reception	Memorise and reason with number bonds to 10 and 20 in several forms. Realise the effect of	Extend their understanding of the language of addition and subtraction to include sum and	Practise solving varied addition and subtraction questions. Understand that for	Continue to practise both mental methods and columnar addition and subtraction with increasingly large	Practise using the formal written methods of columnar addition and subtraction with increasingly large	Practise addition and subtraction for larger numbers, using the formal written methods of columnar addition and
in and Subtraction	Nursery	Reception	Memorise and reason with number bonds to 10 and 20 in several forms. Realise the effect of adding or	Extend their understanding of the language of addition and subtraction to include sum and difference.	Practise solving varied addition and subtraction questions. Understand that for mental calculations with two-digit	Continue to practise both mental methods and columnar addition and subtraction with increasingly large numbers to aid	Practise using the formal written methods of columnar addition and subtraction with increasingly large numbers to aid	Practise addition and subtraction for larger numbers, using the formal written methods of columnar addition and subtraction.
ition and Subtraction	Nursery	Reception	Memorise and reason with number bonds to 10 and 20 in several forms. Realise the effect of adding or subtracting zero.	Extend their understanding of the language of addition and subtraction to include sum and difference. Practise addition	Practise solving varied addition and subtraction questions. Understand that for mental calculations with two-digit numbers, the	Continue to practise both mental methods and columnar addition and subtraction with increasingly large numbers to aid	Practise using the formal written methods of columnar addition and subtraction with increasingly large numbers to aid fluency.	Practise addition and subtraction for larger numbers, using the formal written methods of columnar addition and subtraction. Undertake mental
ddition and Subtraction	Nursery	Reception	Memorise and reason with number bonds to 10 and 20 in several forms. Realise the effect of adding or subtracting zero. Establish addition	Extend their understanding of the language of addition and subtraction to include sum and difference. Practise addition and subtraction to	Practise solving varied addition and subtraction questions. Understand that for mental calculations with two-digit numbers, the answers could exceed	Continue to practise both mental methods and columnar addition and subtraction with increasingly large numbers to aid	Practise using the formal written methods of columnar addition and subtraction with increasingly large numbers to aid fluency. Practise mental	Practise addition and subtraction for larger numbers, using the formal written methods of columnar addition and subtraction. Undertake mental calculations with
Addition and Subtraction	Nursery	Reception	Memorise and reason with number bonds to 10 and 20 in several forms. Realise the effect of adding or subtracting zero. Establish addition and subtraction as related operations.	Extend their understanding of the language of addition and subtraction to include sum and difference. Practise addition and subtraction to 20 to become	Practise solving varied addition and subtraction questions. Understand that for mental calculations with two-digit numbers, the answers could exceed 100. Use their	Continue to practise both mental methods and columnar addition and subtraction with increasingly large numbers to aid	Practise using the formal written methods of columnar addition and subtraction with increasingly large numbers to aid fluency. Practise mental calculations with	Practise addition and subtraction for larger numbers, using the formal written methods of columnar addition and subtraction. Undertake mental calculations with increasingly large
Addition and Subtraction	Nursery	Reception	Memorise and reason with number bonds to 10 and 20 in several forms. Realise the effect of adding or subtracting zero. Establish addition and subtraction as	Extend their understanding of the language of addition and subtraction to include sum and difference. Practise addition and subtraction to 20 to become increasingly fluent in deriving facts.	Practise solving varied addition and subtraction questions. Understand that for mental calculations with two-digit numbers, the answers could exceed 100. Use their understanding of	Continue to practise both mental methods and columnar addition and subtraction with increasingly large numbers to aid	Practise using the formal written methods of columnar addition and subtraction with increasingly large numbers to aid fluency. Practise mental calculations with increasingly large	Practise addition and subtraction for larger numbers, using the formal written methods of columnar addition and subtraction. Undertake mental calculations with increasingly large numbers and
Addition and Subtraction	Nursery	Reception	Memorise and reason with number bonds to 10 and 20 in several forms. Realise the effect of adding or subtracting zero. Establish addition and subtraction as related operations.	Extend their understanding of the language of addition and subtraction to include sum and difference. Practise addition and subtraction to 20 to become increasingly fluent in	Practise solving varied addition and subtraction questions. Understand that for mental calculations with two-digit numbers, the answers could exceed 100. Use their	Continue to practise both mental methods and columnar addition and subtraction with increasingly large numbers to aid	Practise using the formal written methods of columnar addition and subtraction with increasingly large numbers to aid fluency. Practise mental calculations with increasingly large	Practise addition and subtraction for larger numbers, using the formal written methods of columnar addition and subtraction. Undertake mental calculations with increasingly large numbers and calculations that are

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			counting forwards and backwards. Discuss and solve problems in familiar practical contexts, including using quantities. Solve problems including the terms: put together, add, altogether, total, take away, distance between, difference between, more than and less than. Develop the concept of addition and subtraction and use these operations flexibly.	check subtraction and adding numbers in a different order. Establish commutativity and associativity of addition. Record addition and subtraction in columns to support place value. Prepare for formal written methods with larger numbers.	practise using columnar addition and subtraction with increasingly large numbers up to three digits to become fluent.			Round answers to a specified degree of accuracy. Explore the order of operations using brackets.
	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Multiplication and Division	Explore grouping by grouping objects by colour and size.	Solve practical problems that involve combining groups of 2, 5 or 10, or sharing into equal groups.	Through grouping and sharing small quantities, begin to understand key calculations: multiplication and division; doubling numbers and quantities; and finding simple fractions of objects, numbers and quantities.	Use a variety of language to describe multiplication and division. Practise to become fluent in the 2, 5 and 10 multiplication tables and connect them to each other.	Practise their mental recall of multiplication tables when they are calculating mathematical statements. Through doubling, connect the 2, 4 and 8 multiplication tables.	Continue to practise recalling and using multiplication tables and related division facts to aid fluency. Practise mental methods and extend this to three-digit numbers to derive facts.	Practise and extend the use of the formal written methods of short multiplication and short division. Apply all the multiplication tables and related division facts frequently, commit them to memory and use	Practise addition, subtraction, multiplication and division for larger numbers, using the formal written methods of columnar addition and subtraction, short and long multiplication, and short and long division.

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		Connect the 10	Develop efficient	Become fluent in the	them confidently to	Undertake mental
	Make connections	multiplication table	mental methods, for	formal written	make larger	calculations with
	between arrays,	to place value, and	example, using	method of short	calculations.	increasingly large
	number patterns,	the 5 multiplication	commutativity and	multiplication and		numbers and
	and counting in	table to the	associativity.	short division with	Use and understand	calculations that are
	twos, fives and tens.	divisions on a clock		exact answers.	the terms factor,	more complex.
		face.	Develop reliable		multiple and prime,	
			written methods for	Write statements	square and cube	Continue to use all
		Begin to use other	multiplication and	about the equality of	numbers.	the multiplication
		multiplication tables	division, starting with	expressions.		tables to calculate
		and recall	calculations of two-		Interpret non-	mathematical
		multiplication facts,	digit numbers by one-	Combine their	integer answers to	statements in order
		including using	digit numbers and	knowledge of	division by	to maintain their
		related division facts	progressing to the	number facts and	expressing results in	fluency.
		to perform written	formal written	rules of arithmetic to	different ways	
		and mental	methods of short	solve mental and	according to the	Round answers to a
		calculations.	multiplication and	written calculations.	context, including	specified degree of
			division.		with remainders, as	accuracy.
		Work with a range		Solve two-step	fractions, as	
		of materials and	Solve simple	problems in contexts,	decimals or by	Explore the order of
		contexts in which	problems in contexts,	choosing the	rounding.	operations using
		multiplication and	deciding which of the	appropriate		brackets.
		division relate to	four operations to	operation.	Use multiplication	
		grouping.	use and why.		and division as	Understand that
					inverses to support	common factors can
		Share discrete and	Solve problems		the introduction of	be related to finding
		continuous	involving measuring		ratio in year 6.	equivalent fractions.
		quantities.	and scaling contexts,			
			and correspondence		Understand the	
		Formulate arrays	problems in which m		terms factor,	
		and understand	objects are		multiple, prime,	
		repeated addition.	connected to n		square, cube	
			objects.		numbers, and use	
		Begin to relate			them to construct	
		calculations to			equivalence	
		fractions and			statements.	
		measures.				

				Use commutativity and inverse relations to develop multiplicative reasoning.			Use and explain the equals sign to indicate equivalence, including in missing number problems.	
	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			Understand half and	Use fractions as	Connect tenths to	Connect hundredths	Understand that	Practise, use and
			quarter as 'fractions	'fractions of'	place value, decimal	to tenths and place	percentages,	understand the
			of' discrete and	discrete and	measures and to	value and decimal	decimals and	addition and
			continuous	continuous	division by 10.	measure.	fractions are	subtraction of
			quantities by solving	quantities by solving			different ways of	fractions with
			problems using	problems using	Begin to understand	Extend the use of the	expressing	different
			shapes, objects and	shapes, objects and	unit and non-unit	number line to	proportions.	denominators by
			quantities.	quantities.	fractions as numbers	connect fractions,		identifying equivalent
Sa					on the number line,	numbers and	Extend the	fractions with the
ag			Connect halves and	Connect unit	and deduce relations	measures.	knowledge of	same denominator.
ent			quarters to the	fractions to equal	between them, such		fractions to	
erco			equal sharing and	sharing and	as size and	Understand the	thousandths and	Progress to varied
H Pe			grouping of sets of	grouping, to	equivalence.	relation between	connect to decimals	and increasingly
and			objects and to	numbers and to	E	non-unit fractions	and measures.	complex problems.
sla			measures.	measures, finding	Explore beyond the	and multiplication	Commont or windows	lles surdists of
ina			De se grise and	fractions of lengths,	[0, 1] interval,	and division of	Connect equivalent fractions > 1 that	Use a variety of
bec			Recognise and combine halves and	quantities, set of	including relating this	quantities, with		images to support
s, D			quarters as parts of	objects or shapes.	to measure.	particular emphasis on tenths and	simplify to integers with division and	their understanding of multiplication with
Fractions, Decimals and Percentages			a whole.	3	Understand the	hundredths	other fractions > 1 to	fractions.
acti			a whole.	Explore $\frac{3}{4}$ as an	relation between unit	nunuleutis	division with	ii actions.
Fra				example of a non-	fractions as operators	Make connections	remainders, using	Use their
				unit fraction.	(fractions of), and	between fractions of	the number line.	understanding of the
					division by integers.	a length, of a shape	the number line.	relationship between
				Count in fractions	anision by integers.	and as a	Explore improper	unit fractions and
				up to 10, starting	Continue to recognise	representation of	and mixed fractions.	division to work
				from any number	fractions in the	one whole or set of		backwards by
				and using the $\frac{1}{2}$ and	context of parts of a	quantities.	Connect	multiplying a quantity
				$\frac{2}{4}$ equivalence on the	whole, numbers,	1	multiplication by a	that represents a unit
				number line.	measurements, a		fraction to using	, ,
<u> </u>				1	I	1		

shape, and unit	Use factors and	fractions as	fraction to find the
fractions as a division	multiples to	operators (fractions	whole quantity.
of a quantity.	recognise equivalent	of), and to division.	
	fractions and simplify		Practise calculations
Practise adding and	where appropriate.	Scale by simple	with simple fractions
subtracting fractions		fractions, including	and decimal fraction
with the same	Continue to practise	fractions > 1.	equivalents to aid
denominator through	adding and		fluency, including
a variety of	subtracting fractions	Practise adding and	listing equivalent
increasingly complex	with the same	subtracting	fractions to identify
problems to improve	denominator, to	fractions to become	fractions with
fluency.	become fluent	fluent through a	common
	through a variety of	variety of	denominators.
	increasingly complex	increasingly	
	problems beyond	complex problems.	Explore and make
	one whole.		conjectures about
		Extend an	converting a simple
	Understand the	understanding of	fraction to a decimal
	number system and	adding and	fraction.
	decimal place value	subtracting	
	to tenths and then	fractions to	
	hundredths.	calculations that	Learn about rounding
		exceed 1 as a mixed	the decimal to three
	Relates decimal	number.	decimal places, or
	notation to division		other appropriate
	of whole number by	Continue to practise	approximations
	10 and later 100.	counting forwards	depending on the
		and backwards in	context.
	Practise counting	simple fractions.	
	using simple fractions		Multiply and divide
	and decimal	Develop an	numbers with up to
	fractions, both	understanding of	two decimal places by
	forwards and	fractions as	one-digit and two-
	backwards.	numbers, measures	digit whole numbers.
		and operators by	
	Learn decimal	finding fractions of	Multiply decimals by
	notation and the	numbers and	whole numbers,
	language associated	quantities.	starting with the
			(

	<ul> <li>with it, including in the context of measurements.</li> <li>Make comparisons and order decimal amounts and quantities that are expressed to the same number of decimal places.</li> <li>Represent numbers with one or two decimal places in several ways, such as on number lines.</li> </ul>	Extend counting strategies from year 4, using decimals and fractions including bridging zero. Say, read and write decimal fractions and related tenths, hundredths and thousandths accurately. Check the reasonableness of their answers to problems. Mentally add and subtract tenths, and one-digit whole numbers and tenths. Practise adding and subtracting decimals, including a mix of whole numbers and decimals, decimals with different numbers of decimal places, and complements of 1. Solve puzzles involving decimals.	simplest cases, and in practical contexts, such as measures and money. Introduce the division of decimal numbers by one-digit whole number, initially, in practical contexts involving measures and money. Recognise division calculations as the inverse of multiplication. Develop the skills of rounding and estimating as a means of predicting and checking the order of magnitude of their answers to decimal calculations. Round answers to a specified degree of accuracy and checking the reasonableness of their answers.
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							Make connections	
							between	
							percentages,	
							fractions and	
							decimals.	
	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Make	Estimate,	Move from using	Use standard units	Measure using the	Understand place	Use their knowledge	Connect conversion
	comparisons	measure,	and comparing	of measurement	appropriate tools and	value and decimal	of place value and	to a graphical
	between	weigh,	different types of	with increasing	units, progressing to	notation to record	multiplication and	representation as
	objects	compare,	quantities and	accuracy, using their	using a wider range	metric measures,	division to convert	preparation for
	relating to	order	measures using non-	knowledge of the	of measures,	including money.	between standard	understanding
	size, length,	objects,	standard units to	number system.	including comparing		units.	linear/proportional
	weight and	and talk	using manageable		and using mixed units	Use multiplication to		graphs.
	capacity.	about	common standard	Use the appropriate	and simple	convert from larger	Calculate the	
		properties,	units.	language and record	equivalents of mixed	to smaller units.	perimeter of	Understand
		position		using standard	units.		rectangles and	approximate
		and time.	Begin to use	abbreviations.	Compare measures	Express perimeter	related composite	conversions and
			measuring tools		including simple	algebraically.	shapes, including	explain if an answer is
			such as a ruler,	Compare	scaling by integers,	Relate area to arrays	using the relations	sensible.
зt			weighing scales and	Measures, includes	connected to	and multiplication.	of perimeter or area	Use the number line
nei			containers.	simple multiples.	multiplication.		to find unknown	to add and subtract
rer							lengths.	positive and negative
nse			Use the language of	Tell the time on	Become fluent in			integers for measures
Measurement			time, including	analogue clocks and	recognising the value		Express missing	such as temperature.
5			telling the time	record it.	of coins, by adding		measures	
			throughout the day,		and subtracting		algebraically.	Relate the area of
			first using o'clock	Count and recognise	amounts, including			rectangles to
			and then half past.	coins.	mixed units, and		Calculate the area	parallelograms and
					giving change using		from scale drawings	triangles and
				Read and say	manageable		using given	calculate their areas.
				amounts of money	amounts.		measurements.	
				confidently and use				Understand and use
				the symbols £ and p	Record £ and p		Use all four	the formulae for
				accurately,	separately.		operations in	calculating area (in
				recording pounds			problems involving	words or symbols).
				and pence	Use both analogue		time and money,	
				separately.	and digital 12-hour		including	Introduce compound
							conversions.	units for speed, such
								8

					clocks and record their times.	Sil		as miles per hour, and apply their knowledge in science or other subjects as appropriate.
	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Geometry - Properties of shapes			Handle common 2-D and 3-D shapes, naming these and related everyday objects fluently. Recognise shapes in different orientations and sizes, and know that rectangles, triangles, cuboids and pyramids are not always similar to each other.	Handle and name a wider variety of common 2-D and 3- D shapes including the following: quadrilaterals and polygons, and cuboids, prisms and cones. Identify the properties of each shape. Identify, compare and sort shapes based on their properties, using vocabulary precisely. Read and write names for shapes that are appropriate for their word	Explore symmetrical and non-symmetrical polygons and polyhedral shapes. Describe the properties of 2-D and 3-D shapes using accurate language, including lengths of lines and acute and obtuse for angles greater or lesser than a right angle. Connect decimals and rounding to drawing and measuring straight lines in centimetres, in a variety of contexts.	Continue to classify shapes using geometrical properties, extending to classifying different triangles and quadrilaterals. Compare and order angles in preparation for using a protractor and compare lengths and angles to decide if a polygon is regular or irregular. Draw symmetric patterns using a variety of media to become familiar with different orientations of lines of symmetry. Recognise line symmetry in a variety	Become accurate in drawing lines with a ruler to the nearest millimetre, and measuring with a protractor. Use conventional markings for parallel lines and right angles. Use the term diagonal and make conjectures about the angles formed by diagonals and sides, and other properties of quadrilaterals, for example using dynamic geometry ICT tools.	Draw shapes and nets accurately, using measuring tools and conventional markings and labels for lines and angles. Describe the properties of shapes and explain how unknown angles and lengths are from known measurements. Begin to express relationships algebraically i.e. d = 2 × r; a = 180 - (b + c).

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				reading and		of diagrams,	Use angle sum facts	
				spelling.		including where the line of symmetry	and other properties to make deductions	
				Draw lines and		does not dissect the	about missing	
				shapes using a		original shape.	angles and relate	
				straight edge.		onginarshaper	these to missing	
				0 0 -			number problems.	
	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Understand	Start to use	Use the language of	Work with patterns	Review and revise	Draw a pair of axes in	Recognise and use	Draw and label a pair
	position	the	position, direction	of shapes, including	positional language	one quadrant, with	reflection and	of axes in all four
	through	language of	and motion: left and	those in different	and patterns.	equal scales and	translation in a	quadrants with equal
	words	position,	right, top, middle	orientations.		integer labels.	variety of diagrams,	scaling.
	using the	direction	and bottom, on top				including continuing	
-	words in	and	of, in front of, above,	Use the concept and		Read, write and use	to use a 2-D grid and	Draw and label
tio	front and	motion: on	between, around,	language of angles		pairs of coordinates	coordinates in the	rectangles,
ed	behind.	top of,	near, close and far,	to describe 'turn' by		(2, 5) including using	first quadrant.	parallelograms and
ib		middle, inside and	up and down,	applying rotations,		coordinate-plotting ICT tools.	Reflection should be	rhombuses, specified by coordinates in the
pue		outside.	forwards and backwards, inside	including in practical contexts.		ICT LOOIS.	in lines that are	four quadrants.
u c		outside.	and outside.	contexts.			parallel to the axes.	Tour quadrants.
itio			una outside.					Predict missing
sod			Make whole, half,					coordinates using the
			guarter and three-					properties of shapes.
etry			quarter turns in					
Geometry – position and direction			both directions.					Begin to express
e e								algebraically for
			Connect turning					example, translating
			clockwise with					vertex (a, b) to (a-2,
			movement on a					b+3); (a, b) and (a+d,
			clock face.					b+d) being opposite
								vertices of a square of
	Numerowy	Decention	Verre	Veera	Veera	Veer 4	Veer 5	side d. Year 6
	Nursery	Reception	Year 1	Year 2 Record, interpret,	Year 3 Understand and use	Year 4 Understand and use a	Year 5 Connect their work	Connect their work
S				collate, organise	simple scales in	greater range of	on coordinates and	on angles, fractions
isti				and compare	pictograms and bar	scales in their	scales to their	and percentages to
Statistics				information.	charts with increasing	representations.	interpretation of	the interpretation of
5					accuracy.	-r	time graphs.	pie charts.

			Continue to interpret data presented in many contexts.	Begin to relate the graphical representation of data to recording change over time.	Begin to decide which representations of data are most appropriate and why.	Encounter and draw graphs relating two variables, arising from their own enquiry and in other subjects. Connect conversion from kilometres to miles in measurement to its graphical representation. Know when it is appropriate to find the mean of a data		
						set.		
			Year 6					
Ratio and proportion	<ul> <li>Recognise proportionality in contexts when the relations between quantities are in the same ratio.         <ul> <li>Link percentages or 360° to calculating angles of pie charts.</li> <li>Consolidate an understanding of ratio when comparing quantities, size and scale drawings by solving a variety of problems. Us e the notation a:b to record their work.</li> <li>Solve problems involving unequal quantities.</li> </ul> </li> </ul>							
			Year 6					
Algeb ra			les and unknowns in mathematical situations t nce, equivalent expressions (for example, a + b what two numbers can ac	o = b + a), generalisations				