Mathematics Progression EYFS to Year 6

		EYFS	Year 1	Year 2	Year 3	Year 4		Year 5	Year 6
Place value:	•	reliably count up	 count to and 	 count in steps of 	 count from 0 in 	 count in multiples 	•	count forwards or	
counting		to 20 objects	across 100,	2, 3, and 5 from 0,	multiples of 4, 8,	of 6, 7, 9, 25 and		backwards in	
counting		moving each as	forwards and	and in tens from	50 and 100; find	1000		steps of powers of	
		they are counted	backwards,	any number,	10 or 100 more or	 count backwards 		10 for any given	
		and also take	beginning with 0	forward and	less than a given	through zero to		number up to 1	
		amounts up to 20	or 1, or from any	backward	number	include negative		000 000	
		from a greater set.	given number			numbers	•	count forwards	
	•	count up to 20	 Count numbers to 					and backwards	
		objects (including	100 in numerals;					with positive and	
		different sized	count in multiples					negative whole	
		objects), moving	of twos, fives and					numbers,	
		each as they are	tens					including through	
		counted						zero	
	•	match the set to							
		the numeral							
	•	count reliably							
		with numbers							
		from 1 to 20							
		Number ELG							
	•	count up to 20							
		pictures without							
		marking using a							
		strategy such as							
		starting at one							
		side, ensuring that							
		all pictures are							
		included and that							
		none have been							
		counted more							
		than once							
	•	understand that							
		'teen' numbers							
		are a group of 10							
		plus another							
		number							
	•	make a given							
		multiple of ten							
		using Numicon,							
		Tens Frames,							
		Number Rods or							
		Tens Towers					1		
	•	count in multiples					1		
		of 10 and identify							
		the number in the					1		
		set							

Place Value:	•	Subitise	 identify and 	 read and write 	 identify, represent 	 identify, represent 	 read, write, (order 	 read, write, (order
ronrocont		(recognise	represent	numbers to at	and estimate	and estimate	and compare)	and compare)
represent		quantities	numbers using	least 100 in	numbers using	numbers using	numbers to at	numbers up to 10
		without counting)	objects and	numerals and in	different	different	least 1 000 000	000 000 and
		up to 5.	pictorial	words	representations	representations	and determine the	determine the
		Number ELG	representations	 identify, represent 	 read and write 	 read Roman 	value of each digit	value of each digit
	٠	represent my	 read and write 	and estimate	numbers up to	numerals to 100 (Ito C)	 read Roman 	
		simple	numbers to 100 in	numbers using	1000 in numerals	and know	numerals to 1000 (M)	
		mathematical	numerals	different	and in words	that over time, the	and recognise	
		ideas and	 read and write 	representations,		numeral system	years written in	
		calculations using	numbers from 1	including the		changed to include the	Roman numerals	
		pictures symbols	to 20 in numerals	number line		concept of zero		
		and numerals and	and words			and place value		
		explain it.						
	•	represent simple						
		mathematical						
		ideas and						
		calculations using						
		objects and						
		pictures						
	•	confidently						
		the numeral that						
		is often before						
		hotwoon numerals						
		to 20						
	•	order a random						
	•	set of numerals						
		within the range 0						
		to 20						
	•	write the						
		numerals 0 to 20						
		for a given						
		purpose						
	٠	order a random						
		set of pictorial						
		number						
		representations						
		within the range 0						
		- 20						
	•	begin to read and						
		write ordinal						
		numbers (labelling						
		a picture or						
		results of a race)						
					1	1	1	

Place value: use	•	Have a deep	• given a number,	 recognise the 	 recognise the 	• find 1000 more or	 (read, write) order 	• (read, write),
		understanding of	identify one more	place value of	place value of	less than a given	and compare	order and
PV and compare		number to 10,	and one less	each digit in a	each digit in a	number	numbers to at	compare numbers
		including the		two-digit number	three-digit	 recognise the 	least 1 000 000	up to 10 000 000
		composition of		(tens, ones)	number	place value of	and determine the	and determine the
		each number		 compare and 	(hundreds, tens,	each digit in a	value of each digit	value of each digit
		Number ELG		order numbers	ones)	four-digit number		
	•	identify the		from 0 up to 100;	 compare and 	(thousands,		
		difference in		use <, > and =	order numbers up	hundreds, tens,		
		number between		signs	to 1000	and ones)		
		one set and		C C		• order and		
		another				compare numbers		
		compare two				beyond 1000		
		groups of				,		
		different sized						
		objects (where						
		there are more of						
		the smaller						
		object)						
		change two						
	-							
		into two equal						
		groups						
		compare two						
	•	quantities up to						
		10 in different						
		contexts						
		recognising when						
		one quantity is						
		greater than less						
		than or the same						
		as the other						
		auantity						
		NI LEG		• use place value	• solve number	• round any	• interpret negative	• round any whole
Place value:				and number facts	problems and	number to the	numbers in	number to a required
problems &				to solve problems	proclical problems	nearest 10, 100 or	context	degree of accuracy
rounding					involving these	1000	• round any	• use negative
					ideas	• solve number and	number up to 1	numbers in
						practical problems	000000 to the	context and
						that involve all of	nearest 10, 100	calculate intervals
						the above and	1000_10_000 and	across zero
						with increasingly	100.000	 solve number and
						large positive	• solve number	nractical problems
	1					numbers	problems and	that involve all of
	1					hambers	practical problems	the above
	1						that involve all of	
	1						the above	
	1							

Addition &	•	know that one	 add and subtract 	 perform mental 				
subtraction		less is the next	one-digit and twodigit	numbers using	numbers	numbers with up	whole numbers	calculations,
		number in the	numbers to	concrete objects,	mentally,	to 4 digits using	with more than 4	including with
calculations		counting	20, including zero	pictorial	including:	the formal written	digits, including	mixed operations
		sequence when		representations,	≻ a three-digit	methods of	using formal	and large
		counting		and mentally,	number and ones	columnar addition	written methods	numbers
		backwards in ones		including:	≻ a three-digit	and subtraction	(columnar	• use their
	•	find the number		≻ a two-digit	number and tens	where	addition and	knowledge of the
		that is one less		number and ones	≻ a three-digit	appropriate	subtraction)	order of
		within 1 – 20 by		≻ a two-digit	number and		 add and subtract 	operations to
		using objects,		number and tens	hundreds		numbers mentally	carry out
		number lines and		≻ two two-digit	 add and subtract 		with increasingly	calculations
		mental recall		numbers	numbers with up		large numbers	Involving the four
	•	rote count		adding three	to three digits,			operations
		backwards from		onedigit numbers	using formal			
		larger numbers			written methods			
		e.g. 50			of columnar			
	•	count back from			addition and			
		smaller numbers			subtraction			
		using mentai						
	•	subtract a single						
		algit number from						
		a number greater						
		than 10 using						
		practical						
	-	equipment						
	•	more is the post						
		number in the						
		counting						
		sequence when						
		counting forward						
		in ones						
	•	find the number						
		that is one more						
		within 1 – 20 by						
		using objects,						
		number lines and						
		mental recall						
	•	verbally count						
		beyond 20,						
		recognising the						
		pattern of the						
		counting system						
		NP ELG						
	•	count on a small						
		number from a						

small number			
using mental			
calculation			
 add two single 			
digit numbers			
totalling up to 10			
using practical			
equipment			
 understand the 			
concept of			
addition by			
practically			
combining sets of			
objects to find out			
how many using			
part-part-whole			
 retell an addition 			
story using first,			
then and now			
 draw pictures and 			
record number			
sentences to			
represent the			
story			
 automatically 			
recall number			
bonds up to 5 and			
some number			
bonds to 10,			
including double			
facts			
Number ELG			

Addition & subtraction: problems	•	solve simple problems using numbers to 20 (practically explore different ways using my own ideas)	 solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = 2 − 9 	 solve problems with addition and subtraction: > using concrete objects and pictorial representations, including those involving numbers, quantities and measures > applying their increasing knowledge of mental and written methods 	• solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction	• solve addition and subtraction twostep problems in contexts, deciding which operations and methods to use and why	 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 and a combination of these, including understanding the meaning of the equals sign 	• solve addition and subtraction multistep problems in contexts, deciding which operations and methods to use and why
Multiplication & division: recall, represent, use	•	independently find two sets of objects that have the same number independently make another set that is the same independently combine two sets of the same number and count to find the total understand that to double, the same number needs to be added to itself double the numbers 1 – 10+ explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally. NP ELG		 recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot 	• recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	 recall multiplication and division facts for multiplication tables up to 12 × 12 use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers recognise and use factor pairs and commutativity in mental calculations 	 identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers establish whether a number up to 100 is prime and recall prime numbers up to 19 recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) 	 identify common factors, common multiples and prime numbers use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy

wultiplication 9		• calculate	• write and	 multiply two-digit 	• multiply numbers up	• multiply multi-digit
Multiplication &		mathematical	calculate	and three-digit	to 4 digits by 2 one- or	numbers up to 4 digits
division:		statements for	mathematical	numbers by a	two digit number	hu a two digit whole
calculation		statements ion		numbers by a		by a two-digit whole
calculation		multiplication and	statements for	one-algit number	using a formal written	number using the
		division within the	multiplication and	using formal	method, including long	formal written method
		multiplication	division using the	written layout	multiplication for	of long multiplication
		tables and write	multiplication		twodigit numbers	 divide numbers up to
		them using the	tables that they		 multiply and divide 	4 digits by a two-digit
		multiplication (×),	know, including		numbers mentally	whole number using
		division (÷) and	for two-digit		drawing upon known	the formal written
		equals (=) signs	numbers times		facts	method of long
			one-digit		 divide numbers up to 	division, and interpret
			numbers, using		4	remainders as whole
			mental and		digits by a one-digit	number remainders,
			progressing to		number using the	fractions, or by
			formal written		formal written method	rounding, as
			methods		of short division and	appropriate for the
					interpret remainders	context
					appropriately for the	• divide numbers up to
					context	4 digits by a two-digit
					multiply and divide	number using the
					whole numbers and	formal written method
					those involving	of short division where
					decimals by 10, 100	appropriate
					and 1000	interpreting
						romainders according
						to the context
						• porform montal
						with mixed operations
						and large numbers

Multiplication & division: solve problems	• solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher	• solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts	• solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects	• solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects	 solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates 	• solve problems involving addition, subtraction, multiplication and division
Multiplication & division: combined operations					• solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign	• use their knowledge of the order of operations to carry out calculations involving the four operations

Fractions:	 recognise, find 	 recognise, find, 	 count up and 	 count up and 	 identify, name 	
recognise &	and name a half	name and write	down in tenths;	down in	and write equivalent	
recognise of	as one of two	fractions 1/3,	recognise that	hundredths;	fractions of a	
write	equal parts of an	1/4, 2/4 and 3/4	tenths arise from	recognise that	given fraction,	
	object, shape or	of a length,	dividing an object	hundredths arise	represented	
	quantity	shape, set of	into 10 equal parts and	when dividing an	visually, including	
	 recognise, find 	objects or	in dividing one-digit	object by one	tenths and	
	and name a	quantity	numbers or	hundred and	hundredths	
	quarter as one of		quantities by 10	dividing tenths by ten.	 recognise mixed 	
	four equal parts		 recognise, find 		numbers and	
	of an object,		and write fractions of a		Improper	
	shape or quantity		discrete set of		fractions and	
			objects: unit		convert from one	
			fractions and non-unit		form to the other	
			fractions with		and write	
			small denominators		mathematical	
			 recognise and use 		statements > 1 as a	
			fractions as		mixed number [for	
			numbers: unit		example,2/5+4/5	
			fractions and non-unit		=6/5=11/5	
			small denominators			
			small denominators			
Fractions:		 Recognise the 	 recognise and 	 recognise and 	 compare and 	• use common
compore		equivalence of 2	show, using	show, using	order fractions	factors to simplify
compare		/4 and 1/2	diagrams,	diagrams, families	whose	fractions; use
			equivalent	of common	denominators are all	common multiples
			fractions with	equivalent	multiples of the same	to express
			small denominators	fractions	number	fractions in the
			 compare and 			same
			order unit			denomination
			fractions, and			 compare and
			fractions with the same			order fractions,
			denominators			including fractions
						>1

Fractions: calculations		• write simple fractions for example, 1/2 of 6 = 3	• add and subtract fractions with the same denominator within one whole [for example, 5/7 +1/7=6/7]	• add and subtract fractions with the same denominator	 add and subtract fractions with the same denominator and denominators that are multiples of the same number multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams 	 add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions multiply simple pairs of proper fractions, writing the answer in its simplest form [for example,1/4 ×1/2=1/8] divide proper fractions by whole numbers [for example 1/3 ÷ 2 =1/6]
Fractions: solve problems			• solve problems that involve all of the above	 solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number 		

Decimals:			 recognise and 	 read and write 	 identify the value
recognise, write,			write decimal	decimal numbers	of each digit in
			equivalents of any	as fractions [for	numbers given to
compare			number of tenths	example, $0.71 =$	three decimal
			or hundreaths	/1/100]	places
			 recognise and write desired 	 recognise and use 	
				rolato thom to	
			1/A $1/2$ $3/A$	tenths	
			• round decimals	hundredths and	
			with one decimal	decimal	
			place to the	equivalents	
			nearest whole	 round decimals 	
			number	with two decimal	
			 compare numbers 	places to the	
			with the same number	nearest whole	
			of decimal places up to	number and to	
			two decimal places	one decimal place	
				• read, write, order	
				and compare	
				numbers with up	
				to three decimal	
				place	
Fractions,			• solve simple	 recognise the percent 	• associate a
Fractions,			• solve simple measure and	 recognise the percent symbol (%) and 	associate a fraction with
Fractions, decimals and			• solve simple measure and money problems	 recognise the percent symbol (%) and understand 	associate a fraction with division and
Fractions, decimals and percentages			• solve simple measure and money problems involving fractions	recognise the percent symbol (%) and understand that per cent	associate a fraction with division and calculate decimal
Fractions, decimals and percentages			• solve simple measure and money problems involving fractions and decimals to	recognise the percent symbol (%) and understand that per cent relates to 'number	associate a fraction with division and calculate decimal fraction anu
Fractions, decimals and percentages			solve simple measure and money problems involving fractions and decimals to two decimal	 recognise the percent symbol (%) and understand that per cent relates to 'number of parts per bundred' and 	associate a fraction with division and calculate decimal fraction equivalents [for oxample 0.375]
Fractions, decimals and percentages			• solve simple measure and money problems involving fractions and decimals to two decimal places	recognise the percent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentares	associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple
Fractions, decimals and percentages			• solve simple measure and money problems involving fractions and decimals to two decimal places	 recognise the percent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with 	associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for
Fractions, decimals and percentages			• solve simple measure and money problems involving fractions and decimals to two decimal places	• recognise the percent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100.	associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3
Fractions, decimals and percentages			• solve simple measure and money problems involving fractions and decimals to two decimal places	• recognise the percent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal	associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3 8]
Fractions, decimals and percentages			• solve simple measure and money problems involving fractions and decimals to two decimal places	recognise the percent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal • solve problems	 associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3 8] recall and use
Fractions, decimals and percentages			• solve simple measure and money problems involving fractions and decimals to two decimal places	recognise the percent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal solve problems which require	 associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3 8] recall and use equivalences
Fractions, decimals and percentages			• solve simple measure and money problems involving fractions and decimals to two decimal places	 recognise the percent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal solve problems which require knowing 	 associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3 recall and use equivalences between simple
Fractions, decimals and percentages			• solve simple measure and money problems involving fractions and decimals to two decimal places	recognise the percent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal solve problems which require knowing percentage and	 associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3 8] recall and use equivalences between simple fractions,
Fractions, decimals and percentages			• solve simple measure and money problems involving fractions and decimals to two decimal places	recognise the percent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal solve problems which require knowing percentage and decimal	 associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3 recall and use equivalences between simple fractions, decimals and
Fractions, decimals and percentages			• solve simple measure and money problems involving fractions and decimals to two decimal places	recognise the percent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal solve problems which require knowing percentage and decimal equivalents of (a a (a a (a a (a a))))	 associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3 recall and use equivalences between simple fractions, decimals and percentages,
Fractions, decimals and percentages			• solve simple measure and money problems involving fractions and decimals to two decimal places	recognise the percent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5,2/5 4/5 and the second	 associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3 recall and use equivalences between simple fractions, decimals and percentages, including in different actions
Fractions, decimals and percentages			• solve simple measure and money problems involving fractions and decimals to two decimal places	recognise the percent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5,2/5 ,4/5 and those fractions with a	 associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3 8] recall and use equivalences between simple fractions, decimals and percentages, including in different contexts
Fractions, decimals and percentages			• solve simple measure and money problems involving fractions and decimals to two decimal places	recognise the percent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5,2/5 ,4/5 and those fractions with a denominator of a	 associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3 8] recall and use equivalences between simple fractions, decimals and percentages, including in different contexts
Fractions, decimals and percentages			• solve simple measure and money problems involving fractions and decimals to two decimal places	recognise the percent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5,2/5 ,4/5 and those fractions with a denominator of a multiple of 10 or 25	 associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3 recall and use equivalences between simple fractions, decimals and percentages, including in different contexts

Ratio and proportion					 solve problems 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/use of percentages for comparison solve problems involving similar shapes where the scale factor is known or can be found solve problems involving unequal sharing and grouping using knowledge of fractions and multiples
Algebra Note – although formal algebraic notation is not introduced until Y6, algebraic thinking starts much earlier as exemplified by the 'missing number' objectives from Y1/2/3	 solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = 12 − 9 	• recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems	solve problems, including missing number problems		 use simple formulae generate and describe linear number sequences express missing number problems algebraically find pairs of numbers that satisfy an equation with two unknowns enumerate possibilities of combinations of two variables

Using measures	•	make direct	 compare, describe 	 choose and use 	• measure,	 Convert between 	 convert between 	 solve problems
		comparisons and	and solve	appropriate	compare, add and	different units of	different units of	involving the
		compare and	practical problems	standard units to	subtract: lengths	measure [for	metric measure	calculation and
		order the weight	for:	estimate and	(m/cm/mm); mass	example,	 understand and 	conversion of units of
		of 3+ items from	lengths and	measure length/height	(kg/g);	kilometre to	use approximate	measure, using decimal
		heaviest to	heights	in any direction	volume/capacity	metre; hour to	equivalences	notation up to 3
		lightest / lightest	➤ mass/weight	(m/cm); mass (kg/g);	(I/ml)	minute]	between metric	d.p. where appropriate
		to heaviest	➤ capacity and	temperature (°C);		 estimate, 	units and common	 use, read, write
	•	understand that if	volume	capacity (litres/ml)		compare and	imperial units such as	and convert between
		the balance scale	≻ time	to the nearest		calculate different	inches, pounds and	standard units,
		is level, the	 measure and 	appropriate unit,		measures	pints	converting
		objects being	begin to record	using rulers,			 use all four 	measurements of
		compared are	the following:	scales, thermometers			operations to	length, mass, volume
		equal in weight	lengths and	and measuring			solve problems	and time from a
	•	use mathematical	heights	vessels			involving measure	smaller unit of
		language	➤ mass/weight	 compare and 			[for example,	measure to a larger
		associated with	capacity and	order lengths,			length, mass,	unit, and
		weight (heavier,	volume	mass,			volume, money]	vice versa, using
		lighter etc.)	≻ time (hours,	volume/capacity			using decimal	decimal notation
	•	use non-standard	minutes, seconds)	and record the			notation, including	to up to 3 d.p.
		units (which are		results using >, <			scaling	• convert between
		uniform, e.g.		allu –				kilomotros
		unifix) to measure						KIIOITIELIES
		the weight of						
	•	make direct						
		comparisons and						
		order the length						
		of 3+ items from						
		longest / tallest to						
		shortest to						
		narrowest to						
		widest etc.						
	•	use mathematical						
		language						
		associated with						
		length (taller,						
		shorter etc.)						
	•	use non-standard						
		units (which are						
		uniform, e.g.						
		unifix) to measure						
		the length of						
		objects						

Money	 recognise and 	 recognise and use 	 add and subtract 	• estimate,	 use all four 	
money	know the value of	symbols for	amounts of	compare and	operations to	
	different	pounds (£) and	money to give	calculate different	solve problems	
	denominations of coins	pence (p);	change, using	measures,	involving measure	
	and notes	combine amounts	both £ and p in	including money	[for example,	
		to make a	practical contexts	in pounds and	money]	
		particular value		pence		
		 find different 				
		combinations of				
		coins that equal				
		the same				
		amounts of				
		money				
		 solve simple 				
		problems in a				
		practical context				
		involving addition				
		and subtraction of				
		money of the				
		same unit,				
		including giving				
		change				

Time	•	understand and	 sequence events 	 compare and 	 tell and write the 	 read, write and 	 solve problems 	 use, read, write
Time		correctly use	in chronological	sequence intervals	time from an analogue	convert time	involving	and convert
		language – before,	order using	of time	clock, including using	between analogue	converting	between standard
		after. vesterdav.	language [for	 tell and write the 	Roman numerals	and digital 12-	between units of	units, converting
		today, tomorrow	example, before	time to five	from I to XII, and 12-	and 24-hour	time	measurements of
	•	sequence four or	and after, next, first,	minutes, including	hour and 24-hour	clocks		time from a
		, more familiar	today, yesterday,	quarter past/to	clocks	 solve problems 		smaller unit of
		events and	tomorrow, morning,	the hour and draw	 estimate and read 	involving		measure to a
		describe the	afternoon and evening]	the hands on a	time with increasing	converting from		larger unit, and
		sequence	 recognise and use 	clock face to show	accuracy to the nearest	hours to minutes;		vice versa
	•	say the names of	language relating	these times	minute; record and	minutes to		Note – In the
		, the days of the	to dates, including	 know the number 	compare time in terms	seconds; years to		WR maths schemes,
		week in order	days of the week,	of minutes in an	of seconds, minutes	months; weeks to days		time conversions
			weeks, months and	hour and the	and hours; use			are covered in
			years	number of hours	vocabulary such as			Y5; the Y6 block
			 tell the time to the 	in a day	o'clock, a.m./p.m.,			concentrates on
			hour and half past the		morning, afternoon,			metric units.
			hour and draw		noon and midnight			
			the hands on a		 know the number of 			
			clock face to show		seconds in a minute			
			these time		and the number of			
					days in each month,			
					year and leap year			
					 compare durations of 			
					events [for example			
					to calculate the time			
					taken by particular			
					events or tasks]			

Perimeter area	٠	use the terms		measure the	measure and	 measure and 	 recognise that
		'nearly full' and		perimeter of	calculate the	calculate the	shapes with the
volume		'nearly empty' to		simple 2-D shapes	perimeter of a	perimeter of	same areas can
		describe volume			rectilinear figure	composite	have different
	•	order a set of			(including	rectilinear shapes	perimeters and
		identical			squares) in	in centimetres and	vice versa
		containers from			centimetres and	metres	 recognise when it
		least full to most			metres	 calculate and 	is possible to use
		full			 find the area of 	compare the area	formulae for area
	•	compare the			rectilinear shapes	of rectangles	and volume of
		volumes of two of			by counting	(including squares)	shapes
		the same			squares	and including	 calculate the area
		containers that				using standard	of parallelograms
		hold different				units, square	and triangles
		amounts and use				centimetres (cm2)	 calculate, estimate
		the terms more or				and square metres	and compare
		less				(m2) and estimate	volume of cubes
						the area of	and cuboids using
						irregular shapes	standard units,
						 estimate volume 	including cubic
						[for example, using	centimetres (cm3)
						blocks to build	and cubic metres
						cuboids] and	(m3), and
						capacity [for	extending to other
						example, using	units
						water]	

2-D shapes	•	begin learning to	 recognise and 	 identify and describe 	 draw 2-D shapes 	 compare and 	 distinguish 	 draw 2-D shapes
		recognise and	name common 2-	the		classify geometric	between regular	using given
		name 2-D shapes,	D shapes [for	properties of 2-D		shapes, including	and irregular	dimensions and
		including irregular	example,	shapes, including		quadrilaterals and	polygons based	angles
		shapes, and	rectangles	the number of sides		triangles, based	on reasoning	 compare and
		quadrilaterals	(including	and line symmetry in a		on their properties	about equal sides	classify geometric
		such as rhombus,	squares), circles	vertical line		and sizes	and angles.	shapes based on
		kite and	and triangles]	 identify 2-D shapes 		 identify lines of 	 use the properties 	their properties
		parallelogram		on the surface of 3-D		symmetry in 2-D	of rectangles to	and sizes
	٠	describe 2-D		shapes,[for example, a		shapes presented	deduce related	 illustrate and
		shapes using		circle on a cylinder and		in different	facts and find	name parts of
		mathematical		a triangle on a		orientations	missing lengths	circles, including
		language		pyramid]			and angle	radius, diameter
	•	explain similarities		 compare and sort 				and circumference
		and differences		common 2-D shapes				and know that the
		between shapes		and				diameter is twice
	•	create pictures		everyday objects				the radius
		using a range of 2-						
		D shapes and						
		explain choices						
	•	identify how						
		shapes can be						
		placed together to						
		create other						
		shapes						
	٠	recognise,						
		describe, copy,						
		continue, make						
		and correct shape						
		patterns						
	٠	make more						
		detailed pictures						
		that include one						
		reflective line of						
		symmetry						

3-D shapes	•	begin learning to recognise and name 3-D shapes, including different types of pyramid and prisms describe 3-D shapes using mathematical language count faces and vertices explain similarities and differences between shapes	• recognise and name common 3- D shapes [for example, cuboids (including cubes), pyramids and spheres]	 recognise and name common 3- D shapes [for example, cuboids (including cubes), pyramids and spheres] compare and sort common 3-D shapes and everyday objects 	• make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them		• identify 3-D shapes, including cubes and other cuboids, from 2-D representations	• recognise, describe and build simple 3-D shapes, including making nets
Angles and lines					 recognise angles as a property of shape or a description of a turn identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right and vertical lines and pairs of perpendicular and parallel lines 	 identify acute and obtuse angles and compare and order angles up to two right angles by size identify lines of symmetry in 2-D shapes presented in different orientations complete a simple symmetric figure with respect to a specific line of symmetry 	 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 (total 360°) > angles at a point on a straight line and 1 2 a turn (total 180°) > other multiples of 90° 	 find unknown angles in any triangles, quadrilaterals, and regular polygons recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles

Position and	 describe position, 	 order and arrange 		 describe positions 	 identify, describe 	 describe positions
direction	direction and	combinations of		on a 2-D grid as	and represent the	on the full
unection	movement,	mathematical objects		coordinates in the	position of a	coordinate grid
	including whole,	in patterns and		first quadrant	shape following a	(all four
	half, quarter and	sequences		 describe 	reflection or	quadrants)
	three-quarter	 use mathematical 		movements	translation, using	 draw and
	turns	vocabulary to		between positions	the appropriate	translate simple
		describe position,		as translations of	language, and	shapes on the
		direction and		a given unit to the	know that the	coordinate plane,
		movement, including		left/right and	shape has not	and reflect them
		movement in a		up/down	changed	in the axe
		straight line and		 plot specified 		
		distinguisning		points and draw		
		between rotation		sides to complete		
		ds d turn dnu in		a given polygon		
		angles for				
		augres for quarter half and				
		three-quarter				
		turns (clockwise				
		and anti-clockwise)				
Present and		 interpret and 	 interpret and 	 interpret and 	 complete, read 	 interpret and
Present and		 interpret and construct simple 	 interpret and present data 	 interpret and present discrete 	 complete, read and interpret 	 interpret and construct pie
Present and interpret data		 interpret and construct simple pictograms, tally 	 interpret and present data using bar charts, 	 interpret and present discrete and continuous data 	 complete, read and interpret information in 	 interpret and construct pie charts and line
Present and interpret data		 interpret and construct simple pictograms, tally charts, block 	 interpret and present data using bar charts, pictograms and 	 interpret and present discrete and continuous data using appropriate 	 complete, read and interpret information in tables, including 	 interpret and construct pie charts and line graphs and use
Present and interpret data		 interpret and construct simple pictograms, tally charts, block diagrams and 	 interpret and present data using bar charts, pictograms and tables 	 interpret and present discrete and continuous data using appropriate graphical methods, 	 complete, read and interpret information in tables, including timetables 	 interpret and construct pie charts and line graphs and use these to solve
Present and interpret data		 interpret and construct simple pictograms, tally charts, block diagrams and simple tables 	 interpret and present data using bar charts, pictograms and tables 	 interpret and present discrete and continuous data using appropriate graphical methods, including bar 	 complete, read and interpret information in tables, including timetables 	 interpret and construct pie charts and line graphs and use these to solve problems
Present and interpret data		 interpret and construct simple pictograms, tally charts, block diagrams and simple tables 	 interpret and present data using bar charts, pictograms and tables 	 interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time 	 complete, read and interpret information in tables, including timetables 	 interpret and construct pie charts and line graphs and use these to solve problems
Present and interpret data		 interpret and construct simple pictograms, tally charts, block diagrams and simple tables 	 interpret and present data using bar charts, pictograms and tables 	 interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs 	 complete, read and interpret information in tables, including timetables 	 interpret and construct pie charts and line graphs and use these to solve problems
Present and interpret data		interpret and construct simple pictograms, tally charts, block diagrams and simple tables	 interpret and present data using bar charts, pictograms and tables 	 interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs 	complete, read and interpret information in tables, including timetables	interpret and construct pie charts and line graphs and use these to solve problems
Present and interpret data Solve statistical		 interpret and construct simple pictograms, tally charts, block diagrams and simple tables ask and answer 	 interpret and present data using bar charts, pictograms and tables solve one-step 	 interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs solve comparison, 	 complete, read and interpret information in tables, including timetables solve comparison, 	 interpret and construct pie charts and line graphs and use these to solve problems calculate and
Present and interpret data Solve statistical problems		 interpret and construct simple pictograms, tally charts, block diagrams and simple tables ask and answer simple questions 	 interpret and present data using bar charts, pictograms and tables solve one-step and two-step 	 interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs solve comparison, sum and difference 	complete, read and interpret information in tables, including timetables solve comparison, sum and	 interpret and construct pie charts and line graphs and use these to solve problems calculate and interpret the
Present and interpret data Solve statistical problems		 interpret and construct simple pictograms, tally charts, block diagrams and simple tables ask and answer simple questions by counting the number of objects 	 interpret and present data using bar charts, pictograms and tables solve one-step and two-step questions [for oxample (How) 	 interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs solve comparison, sum and difference problems using 	complete, read and interpret information in tables, including timetables solve comparison, sum and difference problems using	 interpret and construct pie charts and line graphs and use these to solve problems calculate and interpret the mean as an proprese
Present and interpret data Solve statistical problems		 interpret and construct simple pictograms, tally charts, block diagrams and simple tables ask and answer simple questions by counting the number of objects in pack patpagent 	 interpret and present data using bar charts, pictograms and tables solve one-step and two-step questions [for example, 'How many mero?' and 	 interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs solve comparison, sum and difference problems using information 	complete, read and interpret information in tables, including timetables solve comparison, sum and difference problems using information	 interpret and construct pie charts and line graphs and use these to solve problems calculate and interpret the mean as an average
Present and interpret data Solve statistical problems		 interpret and construct simple pictograms, tally charts, block diagrams and simple tables ask and answer simple questions by counting the number of objects in each category and sorting the 	 interpret and present data using bar charts, pictograms and tables solve one-step and two-step questions [for example, 'How many more?' and 'How many 	 interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs solve comparison, sum and difference problems using information presented in bar 	complete, read and interpret information in tables, including timetables solve comparison, sum and difference problems using information presented in a line	 interpret and construct pie charts and line graphs and use these to solve problems calculate and interpret the mean as an average
Present and interpret data Solve statistical problems		 interpret and construct simple pictograms, tally charts, block diagrams and simple tables ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity 	 interpret and present data using bar charts, pictograms and tables solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using 	 interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs solve comparison, sum and difference problems using information presented in bar charts 	complete, read and interpret information in tables, including timetables solve comparison, sum and difference problems using information presented in a line graph	 interpret and construct pie charts and line graphs and use these to solve problems calculate and interpret the mean as an average
Present and interpret data Solve statistical problems		 interpret and construct simple pictograms, tally charts, block diagrams and simple tables ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity ask and answer 	 interpret and present data using bar charts, pictograms and tables solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information 	 interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs solve comparison, sum and difference problems using information presented in bar charts, pictograms tables 	 complete, read and interpret information in tables, including timetables solve comparison, sum and difference problems using information presented in a line graph 	 interpret and construct pie charts and line graphs and use these to solve problems calculate and interpret the mean as an average
Present and interpret data Solve statistical problems		 interpret and construct simple pictograms, tally charts, block diagrams and simple tables ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity ask and answer questions about 	 interpret and present data using bar charts, pictograms and tables solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in 	 interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs 	 complete, read and interpret information in tables, including timetables solve comparison, sum and difference problems using information presented in a line graph 	 interpret and construct pie charts and line graphs and use these to solve problems calculate and interpret the mean as an average
Present and interpret data Solve statistical problems		 interpret and construct simple pictograms, tally charts, block diagrams and simple tables ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity ask and answer questions about totalling and 	 interpret and present data using bar charts, pictograms and tables solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts 	 interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs 	 complete, read and interpret information in tables, including timetables solve comparison, sum and difference problems using information presented in a line graph 	 interpret and construct pie charts and line graphs and use these to solve problems calculate and interpret the mean as an average
Present and interpret data Solve statistical problems		 interpret and construct simple pictograms, tally charts, block diagrams and simple tables ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity ask and answer questions about totalling and comparing 	 interpret and present data using bar charts, pictograms and tables solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms 	 interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs 	 complete, read and interpret information in tables, including timetables solve comparison, sum and difference problems using information presented in a line graph 	 interpret and construct pie charts and line graphs and use these to solve problems calculate and interpret the mean as an average
Present and interpret data Solve statistical problems		 interpret and construct simple pictograms, tally charts, block diagrams and simple tables ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity ask and answer questions about totalling and comparing categorical data 	 interpret and present data using bar charts, pictograms and tables solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables 	 interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs 	 complete, read and interpret information in tables, including timetables solve comparison, sum and difference problems using information presented in a line graph 	 interpret and construct pie charts and line graphs and use these to solve problems calculate and interpret the mean as an average