	TERM 1A Number: Place value		TERM 1B		TERM 2A		TERM 2B		TERM 3A		TERM 3B	
			Number: Multipli	cation and division	Stat	istics	Number: Fractions, de	cimals and percentages	Measu	rement	Geometry: Pro	perties of shape
	Number: Additio Key knowledge	n and subtraction Key skills	Key knowledge	Key skills	Key knowledge	Key skills	Key knowledge	Key skills	Key knowledge	Key skills	Key knowledge	Key skills
	To know ten ones are	To be able to count	To know multiplication	To be able to recall and	To know information	To be able to interpret	To know when a whole	To be able to count up	To know	To be able to measure,	To know an angle is	To be able to draw 2D
	called one ten.	from 0 in multiples of 4,	is the inverse of	use multiplication and	can be recorded in a	and present data using	is divided into equal	and down in tenths;	1 cm = 10 mm	compare, add and	formed whenever two	shapes and make 3D
		8, 50 and 100; find 10	division.	division facts for the 3,	tally chart or table and presented it in a graph.	bar charts, pictograms	parts each part is a	recognise that tenths	1 m = 100 cm 1 litre = 1000 millilitres	subtract: lengths	lines meet at a point. The angle is measured	shapes using modelling
	To know ten tens are called one hundred.	or 100 more or less than a given number.	To know multiplication	4 and 8 multiplication tables.	presented it in a graph.	and tables.	fraction of the whole.	arise from dividing an object into 10 equal	1 kilogram = 1000	(m/cm/mm); mass (kg/g); volume/capacity	by the amount of turn	materials; recognise 3D shapes in different
	called one nundred.	than a given number.	is both commutative	tables.	To know presenting	To be able to solve one-	To know ten tenths is	parts and in dividing	grames.	(I/ml).	that one line must	orientations and
	To know ten hundreds	To be able to recognise	and associative. Division is not.	To be able to write and	data in a graph makes the data easier to	step and two-step	equivalent to one	one-digit numbers or	To know the distance		travel about this point to arrive at the position	describe them.
	are called one	the place value of each	DIVISION IS NOT.	calculate mathematical	interpret.	questions [for example	whole.	quantities by 10.	around the edge of a	To be able to measure	of the other line.	
	thousand.	digit in a 3-digit number (100s, 10s, 1s).	To know the	statements for multiplication and		'How many more?' and 'How many fewer?']	To know a fraction can	To be able to recognise,	shape is its perimeter.	the perimeter of simple 2D shapes.		To be able to recognise angles as a property of
	To know the value of	(1003, 103, 13).	commutative law states that the order of the	division using the	To know a bar chart uses vertical or	using information	be expressed as one	find and write fractions	To know a day is the	2D strapes.	To know angles are measured in degrees:	shape or a description
	digits becomes ten	To be able to compare	numbers does not	multiplication tables	horizontal bars of equal	presented in scaled bar	number written above	of a discrete set of	amount of time it takes	To be able to add and	measured in degrees.	of a turn.
	times bigger as digits	and order numbers up	affect the result. a x b =	that I know, including	width to show	charts and pictograms	another e.g. ½.	objects: unit fractions	the Earth to spin once	subtract amounts of	To know there are	
	move to the left.	to 1,000.	bxa.	for two-digit numbers times one-digit	frequency of a distribution.	and tables.	To know the bottom	and non-unit fractions with small	on its axis.	money to give change, using both £ and p in	several types of angles, classified by their size.	To be able to identify right angles, recognise
	To know the value of	To be able to identify,	To know multiplication	numbers, using mental	distribution.		part of the fraction is	denominators.	To know this period is	practical contexts.	classified by their size.	that 2 right angles make
	digits becomes ten	represent and estimate	can be seen as repeated	and progressing to	To know a pictogram is		the denominator. This		divided into 24 hours	P	To know a whole turn	a half-turn, 3 make
	times smaller as digits	numbers using different	addition. 3 x 4 = 4 + 4 + 4 = 3 + 3 + 3 + 3.	formal written	a chart on which pictures show the		represents the total	To be able to recognise	which can be broken down into smaller units:	To be able to tell and	(full turn or complete	three-quarters of a turn
	move to the right.	representations.	4-3131313.	methods.	frequency of a		number of equal parts.	and use fractions as	minutes and seconds.	write the time from an	turn) is equal to 360°.	and 4 a complete turn;
	To know the value of a	To be able to read and	To know division can be	To be able to solve	distribution. A		To know the numerator	numbers: unit fractions and non-unit fractions	These are the units	analogue clock, including using Roman	To know a right angle is	identify whether angles are greater than or less
	digit relies on its place	write numbers up to	thought of as repeated	problems, including	pictogram includes a title and a key,		is the top part of the	with small	used in telling the time.	numerals from I to XII,	a quarter of a full turn and equal to 90°.	than a right angle.
	in the number.	1,000 in numerals and	subtraction. The number of times 5 can	missing number	explaining what the		fraction; this represents	denominators.	time.	and 12-hour and 24-	and equal to 50.	
	T 1 100 1	in words.	be taken away from 40	problems, involving	pictures mean.		the number of parts		To know there are 60	hour clocks.	To know lines that meet	To be able to identify
	To know 100 can be divided into two, four,	To be able to solve	is 8.	multiplication and division, including			being considered.	To be able to recognise and show, using	minutes in one hour.	To be able to estimate	at a right angle are described as	horizontal and vertical lines and pairs of
	five and ten equal parts	number problems and	To be see the leaves of	positive integer scaling			To know a unit fraction	diagrams, equivalent	To know there are 60	and read time with	perpendicular.	perpendicular and
10	and these units are	practical problems	To know the language of division: dividend ÷	problems and			has a numerator of one.	fractions with small	seconds in one minute.	increasing accuracy to		parallel lines.
Mathematics	used in graphing and	involving these ideas.	divisor = quotient.	correspondence				denominators.	To know the 12-hour	the nearest minute;	To know a straight angle is half a full turn	
Ва	measure contexts.	To be able to add and		problems in which n objects are connected			To know to add fractions with the same	To be able to add and	clock is a time system in	record and compare time in terms of	and equal to 180°.	
he	To know addition is	subtract numbers	To know the language	to m objects.			denominator, add the	subtract fractions with	which the hours in a	seconds, minutes and		
/at	commutative;	mentally, including: a	of multiplication: • Factor x factor =				numerators together.	the same denominator	day are broken down into two groups of 12	hours; use vocabulary	To know parallel lines	
Y3 N	subtraction is not.	three-digit number and	product.					within one whole [for	hours.	such as o'clock, am/pm,	are always the same distance apart and they	
>	To know the language	1s; a three-digit number and 10s; a					To know that to subtract fractions with	example, 5/7 + 1/7 = 6/7.		morning, afternoon, noon and midnight.	will never meet.	
	of addition: addend	three-digit number and	Multiplicand				the same denominator,	0/7.	To know the 24-hour clock is a time system in	moon and midnight.		
	plus addend is	100s.	(group size) x multiplier				subtract the	To be able to compare	which the 24 hours of	To be able to compare		
	equivalent to		(number of				numerators.	and order unit	the day are not	durations of events (for		
	sum/total.	To be able to add and subtract numbers with	groups) = product.				To know comparing	fractions, and fractions with the same	expressed as am and pm but are numbered	example, to calculate the time taken by		
	To know the whole can	up to 3 digits, using					fractions with the same	denominators.	straight through from 0	particular events or		
	be found by adding the	formal written methods					denominator can be		-23.	tasks).		
	parts.	of columnar addition					achieved by ordering	To be able to solve	To know Roman			
	To know when the	and subtraction.					the numerators.	problems that involve all of the above.	numerals can be used			
	whole and one of the	To be able to estimate					To know ordering unit	all of the above.	on a 12 hour clock I= 1;			
	parts is known, the	the answer to a					fractions can be		V=5, X = 10.			
	other part can be	calculation and use					achieved by arranging					
	worked out.	inverse operations to check answers.					them from the largest denominator to the					
	To know the language	CHECK dilswers.					smallest denominator.					
	of subtraction: minuend	To be able to solve										
	subtract subtrahend is	problems, including										
	equivalent to	missing number										
	difference.	problems, using number facts, place										
	To know if 3 ones and 4	value, and more										
	ones is 7 ones, then 3	complex addition and										
	tens plus 4 tens is 7	subtraction.										
	tens; 3 hundreds and 4 hundreds is 7 hundreds											
	etc.											
	To know we exchange											
	when subtracting using a vertical algorithm;											
	a vertical algorithm;											

one ten can be										
exchanged for ten ones;										
one hundred can be										
exchanged for ten tens;										
one thousand can be										
exchanged for ten										
hundreds.										
To know we regroup										
when adding using a										
vertical algorithm;										
fourteen ones can be										
regrouped as one ten										
and four ones.										
To know when using a										
vertical algorithm for										
addition and										
subtraction we start										
with the lowest value										
digit on the right.										
Key vocabulary (tier 2) Key vocabulary (tie	r 3) Key vocabulary (tier 2)	Key vocabulary (tier 3)	Key vocabulary (tier 2)	Key vocabulary (tier 3)	Key vocabulary (tier 2)	Key vocabulary (tier 3)	Key vocabulary (tier 2)	Key vocabulary (tier 3)	Key vocabulary (tier 2)	Key vocabulary (tier 3
add	array	, , , , , , , , , , , , , , , , , , , ,	axes	, , , , , , , , , , , , , , , , , , , ,	denominator	, , , , , , , , , , , , , , , , , , , ,	24-hour clock	, , , , , , , , , , , , , , , , , , , ,	acute	, , , , , , , , , , , , , , , , , , , ,
addend	commutative		bar chart		eights		amount		angle	
addition	divide by		data		equal		analogue		apex	
altogether	fact family		frequency		equivalent		capacity		curved	
					fifths					
column	factor		horizontal axis		fraction		change		degrees	
column subtraction	multiple		interpret				coin		edge	
commutative	multiply by		intervals		halves		combinations		flat face	
difference	prime number		pictogram		non-unit fraction		convert		half turn	
digit	product		scale		numerator		gram		horizontal	
estimate	regrouping		symbol		quarters		heavier		obtuse	
exchange	times tables		table		sixths		kilogram		parallel	
greater			tally		tenths		lighter		perpendicular	
hundreds			vertical axis		thirds		litre		point	
inverse operation					unit fraction		mass		polygon	
less							millilitre		properties	
less than							pence		quarter turn	
minuend							penny		right angle	
minus							perimeter		surface	
more than							pounds		three dimensional	
multiples							roman numerals		three-quarter turn	
negative numbers							value		two-dimensional	
number facts							volume		vertex	
ones							. Ordinic		vertical	
order									vertices	
partition									VELLICES	
place										
plus										
represent										
subtract										
subtrahend										
sum										
take away										
tens										
thousands										
total										
value										
zero										
			1		I	1	I	1	1	1