

	Progression of Knowledge, Skills and Vocabulary Year <u>3</u>							
	Number and place value	Addition and subtraction	Yea Multiplication and Division	Fractions	Measurement	Geometry: Shape	Statistics	
I know	Each digit in a number represents a different value and can identify them all to a thousand. To count in multiples we must increase by the same difference each time. There are ten hundreds in a thousand.	Problems require different methods of calculation and how column addition/subtraction is applied for larger numbers. Mental calculation strategies can help with additions and subtractions less than three digits. Inverse can be used to check problems and which calculation to select	My 3-, 4- and 8- times tables and their division facts. The gird method is used to multiply 2 digits by 1 digit problems and how to apply them. Division is the inverse of multiplication and that fact families are used to solve missing number problems.	A tenth follows a one and how they are created when a whole is divided into ten equal parts. A discrete set of objects can be expressed as unit fractions or non-unit fractions. Common denominators must be used to add/subtract fractions. Fractions can be equal even if they have different denominators & how doubling/halving denominators can be used. Fractions can be added and subtracted; the numerator is affected.	g /kg represent weight, cm, m, km represent distance/height and that ml,l represent capacity. Kilo means 1000. Cent means 100 and milli means 1000 and this can help solve problems of conversion. Perimeter is the total distance around the edge of a 2d shape. A pound has 100 pence and we can show this through decimals. AM means before midday and PM means past midday.	Right angles form the corner of a square at 90 degrees and that two right angles make a half-turn, three make three quarters of a turn and four a complete turn. Angles can be greater than or less than a right angle Vertical lines travel up and horizontal lines travel across. parallel lines do not touch and maintain an equal distance constantly. I know perpendicular lines meet at a right angle.	Charts are used to represent and compare different totals and amounts. A key must be read to understand a pictogram and that half an image would equate to half the amount.	

So I can	Count from 0 in	Add and subtract	Recall and use	Count up and down	Measure,	Draw 2-D shapes and	Interpret and
	multiples of 4, 8,	numbers mentally,	multiplication and	in tenths; recognise	compare, add and	make 3-D shapes	present data using
	50 and 100; find	including:	division facts for	that tenths arise	subtract: lengths	•	bar charts,
	10 or 100 more or	-a three-digit	the 3, 4 and 8	from dividing an	(m/cm/mm); mass	materials; recognise	pictograms and
	less than a given	number and ones a	multiplication	object into 10 equal	(kg/g);	3-D shapes in	tables
	number	three- digit number	tables	parts and in dividing one- digit numbers	volume/capacity (l/ml)	different orientations and	Solve one-step and
	Recognise the	and tens	Write and	or quantities by 10	(1/111)	describe them	two-step questions
	place value of		calculate		Measure the	describe them	[for example, 'How
	each digit in a	-a three-digit	mathematical	Recognise, find and	perimeter of	Recognise angles as	many more?' and
	three-digit	number and	statements for	write fractions of a	simple 2-D shapes	a property of shape	'How many fewer?']
	number	hundreds	multiplication and	discrete set of		or a description of a	using information
	(hundreds, tens,	Add and subtract	division using the	objects: unit	Add and subtract	turn	presented in scaled
	ones) =	numbers with up to	multiplication	fractions and non-	amounts of money	lala u tifu ui ala ta a a ala a	bar charts and
	Commerce and	three digits, using	tables that they	unit fractions with	to give change,	Identify right angles,	
	Compare and order numbers up	formal written	know, including	small denominators	using both £ and p		tables.
	to 1000	methods of	for two-digit	Recognise and use	in practical contexts	right angles make a half-turn, three	
	10 1000	columnar addition	numbers x one-	fractions as	COMEXIS	make three quarters	
	identify, represent	and subtraction	digit numbers,	numbers: unit	Tell and write the	of a turn and four a	
	and estimate	Follow to the	using mental and	fractions and non-	time from an	complete turn;	
	numbers using	Estimate the	progressing to	unit fractions with	analogue clock,	identify whether	
	different	answer to a	formal methods	small denominators	including using	angles are greater	
	representations	calculation and use	Solve problems,		Roman numerals	than or less than a	
	Read and write	inverse operations to check answers	including missing	Recognise and show,	from I to XII, and	right angle	
	numbers up to	to check answers	number problems,	using diagrams,	12-hour and 24-	ingite ungle	
	1000 in numerals	Solve problems,	involving	equivalent fractions	hour clocks	Identify horizontal	
	and in words	including missing	multiplication and	with small	Estimate and read	and vertical lines and	
		number problems,	division, including	denominators	time with	pairs of	
	Solve number	using number facts,	positive integer	Add and subtract	increasing	perpendicular and	
	problems and	place value, and	scaling problems	fractions with the	accuracy to the	parallel lines.	
	practical problems	more complex	and	same denominator	nearest minute;		
	involving these	addition and	correspondence	within one whole	record and		
	ideas.	subtraction.	problems		compare time in		
					compare time III		

		[for example, 5/7 + 1/7 = 6/7] Compare and order unit fractions, and fractions with the same denominator Solve problems that involve all of the above.	terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight Know the number of seconds in a minute 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].		
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Vocabulary I will	zero thousand	hundreds boundary	remainder	two thirds, three	more expensive,	right-angled triangle	chart grid
use	relationship one hundred more, one hundred less approximate, approximately round up, round down place holder, estimate, near double	equation column(ar) addition column(ar) subtraction inverse operation, exchange	equation inverse operation	thirds, one tenth, tenths denominator numerator	most expensive less expensive, least expensive amount, value, worth approximately distance apart, distance between distance to, distance from millimetre (mm), kilometre (km), mile century leap year calendar date am, pm, noon earliest, latest 12 hour clock, 24 hour clock Roman numerals I to XII perimeter	hemi-sphere, semi- circle pentagonal, hexagonal, octagonal polyhedron perpendicular parallel non-symmetrical regular irregular right angle acute angle obtuse angle angle,is a greater/smaller angle than	bar chart frequency table Carroll diagram Venn diagram axis axes interval data row column