Y 3,4	Autumn 1 and Spring 2		Autumn 2 and Summer 1		Spring 1 and Summer 2		
My Money	Year A - How can I keep my money safe?		Year A - How do I plan a simple budget?		Year A - Raising money for Charity.		
modules	Year B - How can I pay for things?		Year B - How can I use	a bank account?	Year B - What are the li	Year B - What are the links between jobs and	
					money?		
Times Tables	x3	Autumn 1 – x6	x4	Autumn 2 – x9	x8	Spring 1 – x7	
		Spring 2 – x11		Summer 1 – x12		Summer 2 – x7	
	Place Value		Multiplication		Fractions		
Key Skills	I can count from 0	I can count in	I can learn facts for	I know	I can place fraction	I can recognise and	
	in multiples of 50	multiples of 25	3 times tables and	multiplication and	on a number line.	show, using	
	and 100.	and 1000.	inverse.	division facts for 6	I can compare and	diagrams, families	
	I can count from 0	I can count in	I can learn	and 9 times tables.	order unit	of common	
	in multiples of 4	multiples of 6, 9	multiplication facts	• I know the 7 and 11	fractions, and	equivalent	
	and 8; find 10 or	I can count in	up to 12x3.	times tables	fractions with the	fractions, ½, ¼, 1/3	
	100 more or less	multiples of 7	I can derive facts	I can recall	same	 I can count up in bundrodths 	
	number	I can find 1000 more or loss than	for X4, X8 by	division facts for all	Lean count up and	nunareatris.	
	I can use multiples	a given number	 L can recall and use 	multiplication	down in tenths:	• I can count up and down in	
	of 2, 3, 4, 5, 8, 10,	 I can recognise the 	multiplication and	tables up to 12 x12	recognise that	hundredths:	
	50 and 100	place value of	division facts for x	 I can multiply by 0 	tenths arise from	recognise that	
	• I can compare and	each digit in a	3, 4 and 8.	and 1.	dividing an object	hundredths arise	
	order numbers up	four-digit number	I know facts for	• I can divide by 1.	into 10 equal parts	when dividing by	
	to 1000, using >, <	(thousands,	2,3,4,5,8,10 times	• I can use place	• I can recognise that	one hundred and	
	and =	hundreds, tens,	tables up to x12	value to multiply	tenths arise from	dividing tenths by	
	I can compare and	and ones).	I can solve	and divide mentally	dividing one-digit	ten.	
	order numbers	 I can identify, 	mathematical	I can solve	numbers or	I can connect	
	beyond 1000,	represent and	statements for	problems involving	quantities by 10.	hundredths to	
	using >, < and =	estimate numbers	multiplication and	multiplying and	• I can recognise, find	tenths.	
	I can add and	using different	division using	adding, including	and write fractions	 I can recognise and write desired 	
	subtract 10 or 100	representations.	known tables.	using the	of objects.	write decimal	
	I can recognise the	 I can read, write and order 	I can write and calculate	distributive law to	• I call recognise and	number of tenths	
	 I can recognise the place value of 	numbers to 10,000	statements for	numbers by one	numbers	or hundredths.	
	each digit in a	 I can order and 	multiplication and	digit	 I can add and 	I can calculate	
	three-digit number	compare numbers	division using	 I can recognise and 	subtract fractions	quantities using	
	(hundreds, tens,	beyond 1000 and	tables that I know,	use factor pairs and	with the same	simple fractions.	
	ones)	negative numbers	including 2-digit	commutativity in	denominator.	I can solve	
	I can round	using >, < and =	numbers x 1-digit	mental calculations	I can recognise	problems involving	
	numbers to	 I can round any 	numbers.	I can multiply two-	equivalent fractions	increasingly harder	
	nearest 10 or 100	number to the	I can solve missing	digit and three-digit	with small	fractions to	
	 I can identify, 	nearest 10, 100 or	number problems	numbers by a one-	denominators	calculate	
	represent and	1000	for x and ÷	digit number using	I can compare and	quantities, and	
					order unit		

estimate numbers	•	I can read Roman	•	I can begin to use		formal written	fractions, and		fractions to divide
in different ways		numerals to 100 (I		formal written		lavout	fractions with the		quantities.
 I can read and 		to C) and know the		methods to solve 2-	•	I can begin to	same denominators	•	I can add and
write numbers up		numeral system		digit numbers x 1-		divide two-digit	using <.> =		subtract fractions
to 1000 in		changed to include		digit numbers.		and three-digit			with the same
numerals.		zero.				numbers by a one-			denominator.
I can read and	•	l can count				digit number using			within one.
write numbers up		backwards				formal written		•	I can add and
to 1000 in		through zero to				lavout			subtract fractions
numerals and in		include negative			•	, I can divide a one-			with the same
words		numbers				or two-digit			denominator
 I can read and 	•	l can count				number by 10 and		•	I can round
write numbers		forwards through				100, identifying the			decimals with one
beyond 1000.		zero from a				value of the digits			decimal place to
 I can partition 3 		negative number				in the answer as			the nearest whole
digit numbers into	•	I can begin to				ones, tenths and			number.
hundreds, tens		solve problems				hundredths		•	I can recognise and
and ones.		with negative							write decimal
 I can partition 		numbers in							equivalents to ¼, ½,
numbers in		context e.g.							3⁄4
different ways eg		temperature						•	I can compare
342 becomes 300									decimal numbers
+20 +22									up to 2d.p.
I can use								•	I can solve simple
partitioning to									measure and
solve problems									money problems
I can read Roman									involving fractions
numerals up to 12									and decimals to
									one decimal place.
								٠	I can solve simple
									measure and
									money problems
									involving fractions
									and decimals to
									two decimal places.
								•	I can solve simple
									measure and
									money problems
									involving fractions
									and decimals to
									two decimal places,
									with mixed number
									ot decimal places

Activities	Use manipulatives and ob	ojects to make and	Regular lessons on times tables	s facts.	Find tenths of shapes, qu	antities and numbers.
and Context	compare numbers.		Use relationship triangles, bar i	models and arrays	Explore what happens when you want more than	
	Explore a range of repres	entations.	to explore multiplication facts.		one tenth.	
	Describe what the value of	of a digit is.	Explore patterns from the time	s tables.	Use diagrams to find out what happens when you	
	Review mental strategies	and develop them for	Count objects and pictures.		add and subtract fraction	S.
	use with bigger numbers.		Explore fact families and write	rules for them.	When counting fractions	use diagrams as well.
	Daily counting on countin	ng sticks and with	Explore breaking apart and ma	nipulating arrays.	Explore improper and mix	ked number equivalents.
	objects and images to sup	pport.	Link arrays to the grid method	and to expanded	Explore fractions with lot	s of parts that make up
	Investigating partitioning	numbers in a variety of	column multiplication.		the half. Link to equivaler	nt fractions.
	ways and exploring the ru	ules for this.	Link expanded column multiplie	cation to short form.	Investigate the relationsh	ip between the
	Lots of time spent partition	oning practically with	Explore the rules when multiply	ying by ten looking	numerator and denomina	ator when finding
	dienes and counters.		at place value changes. Link thi	s to decimals tenths	equivalent fractions.	
	Compare numbers in the	context of money and	and hundredths.		Draw their own diagrams	to represent fractions.
	measures.		Daily counting stick practise.		Link fractions to multiplic	ation and division and
	Use part, part, whole rep	resentations and bar			language of groups of.	
	models.				Link to division by ten and	d one hundred.
	Daily counting stick pract	ise.			Use ten frames and hund	red squares to explore
					decimals.	
					Explore word problems w	ith money and measures
					context.	
					Daily counting stick pract	ise.
Кеу	Number, Count, forwards	s, backwards, more, less,	Double, Half, Patterns, Arrays, Groups of, Sharing,		Half, quarter, numerator,	denominator, parts,
Vocabulary	nigner, lower, another, next, numerals, order,		multiple, multiply, divide, com	mutative,	whole, bisect, improper, i	mixed number fractions,
previous	biggest, smallest, bigger,	smaller, repeating,	remainders, product. Distributi	ve, factors,	equivalent. Unit fractions	,
	partition, odd, even, orga	inising, conjecture,	quotient,		tenths, hundredths, decir	nals, decimal places,
	convince.					
	Digit, Most, Least, Multip	les, Place Value,				
	Number Bonds, Represen	it, Compare, Order,				
	Greater than, Less than, E	Equal, Place Holder,				
	ascending order, Baker's	dozen, Consecutive,				
	Descending, score, face v	alue, rounding, classify,				
	imagine, express, speciali	ize, generalise				
	Negative, integer,					
	Addition and Subtraction	on	IVIeasures		Snape and Statistics	
Key Skills	• I can add or	I can add and	• I can measure and •	I can convert	I can measure the	I can identify acute
	subtract two 2-	subtract 4 digits	compare: lengths	between different	perimeter of simple	and obtuse angles
	digit numbers	and hundred and 4	(m/cm/mm); mass	units of measure.	2-D shapes	I can compare and
	where answers	digits and	(Kg/g);	I can estimate,	• I can recognise and	order angles up to
	may exceed 100.	thousands,	volume/capacity	compare and	name prisms.	two right angles by
	I can add and	mentally.	(I/mI)	calculate different	I can recognise 3-D	size
	subtract 3 digits	I can add and	I can add and	measures, including	shapes in different	I know names of
	and one, 3 digits	subtract numbers	subtract: lengths	money in pounds	orientations and	common
	and tens and 3	with up to 4 digits	(m/cm/mm); mass	and pence	describe them.	quadrilaterals.

digits and	crossing the	(kg/g);	I can use decimal	I can identify	I know and name
hundreds	thousands	volume/capacity	notation to record	vertical and	common triangles.
mentally.	barriers.	(l/ml)	money.	horizontal lines of	 I can identify all
I can add and	 I can add and 	• I can add and	• I can read	symmetry in	lines of symmetry
subtract 4 digits	subtract numbers	subtract amounts	unlabelled divisions	common 2-D	in common 2-D
and ones. 4 digits	with up to 4 digits.	of money to give	I can measure and	shapes.	shapes.
and tens and	 I can estimate and 	change, using both	calculate the	• I can identify right	I can identify lines
numbers with		f and p in practical	nerimeter of a	angles	of symmetry in 2-D
different numbers	operations to	contexts using	rectangle in cm and	 I can recognise 	shapes presented
of digits mentally.	check my answers	appropriate	m	angles as a	in different
 I can add and 	 L can solve 	amounts	 I can find the area 	nroperty of shape	orientations
subtract numbers	addition and	 I can tell and write 	• I can find the area	or a description of	
with up to three	subtraction two-	the time from an	shapes by counting	a turn	• r can complete a
digits	step problems in	analogue clock	snapes by counting	a turn.	figure using the line
• I can add and	contoxts deciding	including using	squares		of symmetry
• I call auu allu	which operations	Roman numerals	I can read, write	that two right	of symmetry.
with up to three	and mothods to	from I to XII and	and convert time	angles make a half	I can compare and
digits with	use and why	12-bour clock	and digital 12 and	turn three make	classify geometric
answers exceeding	• I can ostimate and	 I can tell and write 		three quarters of a	shapes, including
000		the time from an	24-Hour Clocks.	turn and four a	triangles based on
	use inverse	analogue clock	 I can solve nroblems involving 	complete turn	thair properties
 I call use column mothod for + and 	check answers to a	using 24-bour	problems involving	complete turn.	and sizes
- with 2 digit	calculation with	clocks	converting from	• I call identify	
- with 2-uight			nours to minutes;	whether angles are	• I can use
tons	appropriate	 I can estimate and road time with 	minutes to	greater than or less	coordinates to
lens.		increasing accuracy	seconds; years to	than a right angle.	describe position
I can estimate the	 I can solve addition and 	to the pearest	months; weeks to	I can identify	on a 2D grid.
answer to a		to the hearest	days using	norizontal and	• I can read, write
	subtraction two-	vocabulary of	appropriate	vertical lines.	and use pairs of co-
• I can estimate the	step problems in		amounts	I can identify pairs	ordinates (2,5)
answer to a	contexts, deciding	ani/pin		of perpendicular	I can plot specified
calculation and	which operations	I can record and compare time in		and parallel lines.	points and draw
use inverse		compare time in		I know and use the	sides to complete a
operations to	use and why.	minutes and hourse		terms North,	given polygon.
		ninutes and nours;		South, 'East' and	I can describe
 I can solve 		use vocabulary		'West.'	positions on a 2-D
propiems,		such as 0 Clock,		I know and use the	grid as coordinates
including missing		afternoon noon		terms 'North,'	in the first
number problems,		and midnight		'North-East,' 'East,'	quadrant
using number				'South-East,'	I can describe
tacts, place value,		 I know the number 		'South,' 'South-	movements
and more complex		or seconds in a		West,' 'West' and	between positions
addition and		minute.		'North-West.'	as translations of a
subtraction.					given unit to the

		 I know the number of days in each month, year and leap year I can compare durations of events. I can read unlabeled divisions in measures. 	 I can move between compass directions in half and quarter turns I can interpret and present data using bar charts, pictograms and tables I can solve one-step questions using information presented in scaled bar charts and tables. I can solve two-step questions [for example, 'How many more?' and 'How many more?' and 'How many more?' and pictograms and pictograms and pictograms and tables ar charts and pictograms and tables are charts and tables. I can solve two-step questions [for example, 'How many more?' and 'How many more?' and pictograms and pictograms and tables are charts and pictograms and tables and other graphs. 	
Activities	Lots of time spent on practically regrouping using	Lots of practical measuring with equipment	tables.	
Activities and Context	Lots of time spent on practically regrouping using place value counters and dienes before moving to the abstract. Use a context of money and measures for numbers given. Use relationship triangles and bar models. Use balance bars. Lots of word problem practise as context once written methods are secure. Daily counting stick practise.	Lots of practical measuring with equipment. Word problems with a measures context using all four operations. Explore the rules for converting measures and link to multiplication. Use watches. Explore the rules for the 24hr clock. Link to science with comparing durations and data with recording results. Explore a range of scales all with unlabeled divisions. Investigate perimeter and area. Solve problems in context. Link area to arrays. Do not teach the formula for area yet.	Sort, make and draw shapes. Solve perimeter word problems. Investigate the angles of shapes. Link to clock faces and turns. Compare lines of symmetry to other properties – is there a relationship. Sort different triangles and quadrilaterals. Draw grids and describe the lines used. Use bee bots and maps to give directions. Present data from time and measures into charts and graphs. Use 4 operations to solve problems with a data context. Link data to science work. Daily counting stick practise.	

		Use number lines to solve problems with time. Explore why not to use column. Link back to knowledge of base 10. Daily counting stick practise.				
Key Vocabulary previous	group, sort, add, subtract, difference, sum. Addition, Subtraction, Equal, Bar Model, Total, Altogether, Commutative, Inverse, Regrouping, equation.	length, longer, shorter, height, taller, shorter, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday, Pennies, Pence, minute, First, second, third, fourth, fifth, last, lots, a few, some, same, different, weight, hours, January, February, March, April, May, June, July, August, September, October, November, December, capacity, ordinal number. mass, volume, coins, notes, pounds, pennies, before, after, next, first, today, yesterday, years, months, days, weeks, tomorrow, morning, afternoon, evening, hour, half past, quicker, slower, earlier, later, centimeters, meters, litres, mililitres, grams, kilograms, minutes, seconds, quarter past, degrees Celsius, Analogue, am, pm, o'clock, noon, midnight, leap year, divisions, convert, perimeter, area, digital,	circle, square, triangle, cube, cuboid, sphere, diagonal, corners, edges, cylinder, cone, pyramid, left, right, face, hexagon, line of symmetry, octagon, symmetrical, tally, rectangle. 2D, 3D, orientation, pentagon, vertices, vertex, faces, position, direction, movement, quarter, three quarter, clockwise, pictogram, tally, pattern, sequence, heptagon, oblong, tetragon, trigon, anti- clockwise, block diagrams. perimeter, vertical, horizontal, perpendicular, parallel, North, South, East, West, compass, bar chart, scales, acute, obtuse, quadrilaterals, scalene, equilateral, isosceles, rhombus, trapezium, kite, parallelogram, lozenge, co-ordinates, quadrant, translations, line graphs, discrete, continuous. axis of symmetry, angle, base, carroll diagrams, dimensions, dodecagon, exterior, hendecagon, irregular, oblique, adjacent, congruent,			
Maths Superpowers	Conjecture: Yr 3 - Work out the 10 th in a sequence. examples to find rules. Yr 4 - Work out the hundredth in a sequence. Use a explain why with examples. Identify some rules wh	Describe multiple changes. Explain why. Identify rules accurate Mathematical vocabulary to describe what is en calculating using their own examples.	s when calculating. Begin to generate their own changing and what is staying the same. Begin to			
	 Convince: Yr 3 - Use the correct/accurate mathematical terminology to persuade others that their conjecture is correct. Begin to use examples to support their ideas. Yr 4 - Begin to use diagrams to persuade others that their conjecture is correct. Use examples and accurate mathematical terminology. Begin to connect Mathematical concepts together to support their explanations. 					
	Organising: Yr 3 - Use venn diagrams and begin to systematic means. Yr 4 - Sort objects, shapes, numbers and calculation sorting. Begin to create their own tables and grids	use carrol diagrams to sort objects, shapes and numbers using multiple criteria. Set their own criteria and be to record information systematically.	ers with multiple criteria. Understand what gin to explain their choices. Use diagrams to support			
	Classifying: Yr 3 - Explain why some items belong or do not belong in a group using mathematical vocabulary. Begin to explain why multiple criteria were used. Yr 4 - Explain their choices for multiple criteria. Describe what is the same and different in sets of calculations e.g. they all give the same answers; they all have answers that are multiples of 8. Classify different types of triangle and quadrilateral.					

	Imagine: Yr 3 - Organise their jottings to support problem solving. Begin to draw diagrams for support. Draw bar models, relationship triangles and part-part- whole diagrams to support with more complex problem solving.
	Yr 4 - Draw their own images to support their problem solving. Begin to use diagrams to explain patterns and rules.
	Express: Yr 3 - Present a problem and a solution to a range of audiences and begin to explain their thinking.
	Yr 4 - Present a problem and a solution to a range of audiences explaining their thinking. Challenge others mistakes in an appropriate way.
	Specialise: Yr 3 - Prove/disprove given rules by testing examples. With scaffolding, test in a systematic way.
	Yr 4 - Prove/disprove given rules by testing examples. Test in a systematic way.
	Generalise: Yr 3 - Identify rules for given examples and being to identify rules for their own examples. Record their rules.
	Yr 4 - Identify rules for their own examples and record them. Begin to link back to their examples to prove their rules.
Possible books to support teaching.	One hundred hungry ants by Elinor J Pinczes, How many Jelly beans by Andrea Menotti, A remainder of one by Elinor J Pinczes, Just a second by Steven Jenkins, How big is a Million by Anna Milbourne, Mr Base Ten invents Mathematics by Bethanie H Tucker, Sir Cumference and all the Kings Tens by Cindy Neuschwander, Sir Cumference and the round abouts battle by Cindy Neuschwander, The Great Graph contest by Loreen Leedy, Lemonade for Sale by Stuart J. Murphy, Math at the Art Museum by Group Majoongmul, How big was a dinosaur by Anne Milbourne, How high is the sky by Anne Milbourne, How deep is the Ocean by Anne Milbourne.
	Fractions in disguise by Edwin Einhorn, The Rabbit Problem by Emily Garrett, One Grain of Rice by Demi, Tables Fables by J.Wilson.