Y 1,2	Autumn 1 and Spring 2		Autumn 2 and Summer 1		Spring 1 and Summer 2		
My Money	Year A - What are needs and wants		Year A - Coins and Note	2S	Year A - Keeping my money safe.		
Modules	Year B - Where does m	noney come from?	Year B - How can I keep	track of my money?	Year B - Why is it important to save?		
Times tables	Autumn 1 - x2	Autumn 1 – x2	Autumn 2 - x10	Autumn 2 – x5	Spring 1 - X2	Spring 1 – x10	
	Spring 2 – x10	Spring 2 – x3	Summer 1 – x2	Summer 1 – x5	Summer 2 – x10	Summer 2 – x3	
	Place Value		Multiplication		Fractions		
Key Skills	 I can count up to 50 forwards and backwards. I can start from any number. I can count up to 100, forwards and backwards. I can start from any number. I can count beyond 100, forwards and backwards. I can start from any number. I can count beyond 100, forwards and backwards. I can start from any number. I can write numbers to 20 in numerals. I can read and write numbers from 1 to 20 in numerals I can write numbers 1-20 in numerals and words I can count, read and write numbers to 100 in numerals. I can order numbers up to 50 and say one more and one less than. I can describe one more and one less. 	 I can count in steps of 2 and 5 from 0, and go backwards. I can count in steps of ten from any number, forward and backward I can count in steps of 3 from 0 I can estimate the number of objects up to 20. I can estimate numbers on an empty number line I can round numbers to the nearest 10 I can identify, represent and estimate numbers in different ways. I can compare and order numbers up to 100 I can compare and order numbers from 0 up to 100; use <, > and = signs 	 I can double 1, 2, 3, 4 and 5. I can half 10, 8, 6, 4 and 2. I can recognise patterns of numbers in the 10x table. I know doubles to double 10 I can solve one-step x and ÷ problems using objects and pictures. I can solve one-step x and ÷ problems using objects, pictures and arrays. 	 I know my times table facts for 2's, 5's, 10's I can recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers and reading scales. I can recall X facts for X2,5,10 and their inverse and use these to deduce other facts. I can double 10, 20, 30, 40, 50, 60, 70, 80, 90 and know the inverse. I know doubles of multiples of 5 and 10 up to double 50 and the inverse I know doubles of multiples of 5 and 10 <double 100="" and="" inverse<="" li="" the=""> I know doubles of multiples of 5 and 10 <double 100="" and="" inverse<="" li="" the=""> I can read and interpret ÷ = signs I can solve problems involving multiplication and division, using materials, arrays </double></double>	 I can recognise, find and name a half in shapes. I can recognise, find and name a half. I can recognise, find and name a quarter. 	 I can recognise and name the fractions 1/3 and ¼ of a shape, set of objects or quantity. I can recognise, find, name and write fractions 1/3 and 1/4 I can find simple fractions of a number and recognise the equivalence of 2/4 and ½. I can compare fractions of amounts. I can recognise, find, name and write fractions 1/3, ¼, 2/4 and ¾ of a length, shape, set of objects or quantity I can relate fractions and measures e.g. 40÷2=20, and 20 is half of 40 I can count in halves from 0 to 10. I can count in halves up to 10 from any number I can count in quarters up to 10 from any number 	

I can count one	I can compare and	and repeated
more or one less	order numbers	addition.
than a 2-digit	beyond 100	I can solve x and ÷
number.	I can use number	using the 2, 5 and
• I can say one more	facts to solve	10 times tables.
or one less than a	problems.	I can show that
number beyond	I can read and	multiplication of
100	write numbers up	two numbers can
• I can count in	to 50 in words and	be done in any
multiples of 2	numerals.	order
• I can count in	I can read and	(commutative) and
multiples of 2s (to	write numbers to	division cannot
50) and 10s (to	at least 100 in	• I can solve 1 step x
100) and recognise	numerals and in	and ÷ problems
patterns.	words	using materials,
I can name	I can read and	arrays, repeated
represent	write numbers	addition, mental
numbers using	beyond 100 in	methods, and
objects and	numerals and	multiplication and
pictures.	words	division facts,
I can represent	 I can recognise the 	including problems
numbers on a	place value of	in contexts.
number line and	each digit in a two-	• I can solve x and ÷
use equal to, more	digit number	problems, using
than, less than	I can partition	materials, arrays,
(fewer), most,	numbers into tens	repeated addition,
least	and units	mental methods,
 I can recognise 	I can partition	and multiplication
odd and even	numbers in	and division facts
numbers	different ways e.g.	and determine
 I can begin to 	23 as 20+3 or	remainders
understand the	10+13	
place value of tens	 I can identify odd 	
and ones.	and even numbers	
• I can use number	I can understand	
bonds and related	the importance of	
subtraction facts	0 as a place	
within 20	holder.	
• I can group objects	• I can solve	
into 2,5,or 10 to	problems and	
aid counting	explain reasoning	
-	······································	

Activities	Count objects (pairs of soc	cks, tricycle wheels),	Make doubles using cube	S.	Link back to clock faces for half and guarter.			
and Context	pictures, cubes, on numbe	er lines, on counting	Half by sharing into two e	equal groups and by	Find fractions of real life shapes, pictorial shapes.			
	stick etc.		grouping into 2s and cour	nting how many.	Explore a range of orientations.			
	Missing number problems.		Make arrays using objects	s, pictures and cubes.	Look at shapes with lots of groups where multiple			
	Explore how TO, HTO and	ThHTO change when	Explore arrays in a range	of orientations.	are shaded to make a half or a quarter.			
	counting in different amou	unts.	Use the language of grou	ps of for multiplication	Explore equal and non-eq	ual groups and why this		
	Write down What changes	s and What stays the	and division.		is important.			
	same.		Represent division as 10 s	shared between 2 and	Find fractions of objects including real life objects and cubes.			
	Use Numicon, Place Value	tokens and Dienes to	how many groups of 2 go	into 10. Groups of is very				
	represent numbers.		important in KS2 rather th	han sharing.	Use bar models to link fac	ctions of shapes and		
	Explore what odd and ever	n numbers look like	Explore what changes and	d what stays the same.	fractions of numbers.			
	and what happens when y	ou add and subtract	Write explanations using	Mathematical vocabulary.	Explore how fractions are	written and how this		
	them.		Use hundred squares to i	dentify times tables	links to shapes.			
	Regrouping T and O to par	tition in different ways.	patterns.		Explore fractions written on a number line.			
	Part, Part, Whole diagrams	S.	Times tables teaching as o	outlined in times tables	Look at improper and mixed number fractions and			
	When revisiting – explore	why we use base 10.	document.		how they are the same using diagrams.			
	Try the Simpson challenge	e – They have 8	Use bar models and relation	e bar models and relationship triangles.		Compare fractions using diagrams and place on		
	fingers/thumbs so would c	count to base 8, how	Repeated addition and su	ibtraction on number	numberlines.			
	would this be different.		lines.		Daily counting stick pract	ise.		
Daily counting stick practise.		Use problems with measu	ires, money and time as					
			Daily counting stick pract	ico				
Kov	Number Count forwards	hackwards more less	Double Half Patterns Ar	rave Groups of Sharing	Half quarter numerator	denominator parts		
Ney	higher, lower, another, next, numerals, order.		multiple multiply divide	commutative	whole bisect improper i	mixed number fractions		
	biggest, smallest, bigger, smaller, repeating,		remainders product	commutative,	equivalent Unit fractions	mixed number mactions,		
FIOMETES	partition, odd, even, organising, conjecture.)		
	convince.							
	Digit, Most, Least, Multiple	es, Place Value,						
	Number Bonds, Represent	, Compare, Order,						
	Greater than, Less than, Ec	qual, Place Holder,						
	ascending order, Baker's d	lozen, Consecutive,						
	Descending, score, face va	llue, rounding, classify,						
	imagine, express, specialize	e, generalise						
	Addition and Subtraction		Measures		Shape and Statistics			
Key Skills	• I can read, write	I can understand	I can compare	• I can use m/cm;	I can name	I can recognise and		
	and solve	and use the words	length, height,	kg/g; °C; litres/ml	rectangles, circles	name common 2-D		
	statements	'sum' and	mass and capacity.	to the measure.	and triangles.	shapes in different		
	involving addition	'difference'	I can measure	I can estimate and	I can recognise and	orientations and		
	(+), subtraction (–)	 I can add and 	length, height,	measure	name rectangles,	sizes for example		
	and equals (=)	subtract numbers	mass, capacity and	length/height	squares, circles,	hexagons and		
1		Subtract numbers	,,		, , ,			
	signs.	using objects.	volume using non-	(m/cm); mass	triangles, cuboids,	pentagons.		
	 signs. I can read and 	I can recall and use	volume using non- standard measures.	(m/cm); mass (kg/g); capacity	triangles, cuboids, cubes, pyramids	pentagons.I can identify and		

statements using addition (+), subtraction (–) and equals (=) signs up	subtraction facts to 20 fluently, and use related facts up to 100	•	I can measure and begin to record length, height, weight and capacity	•	nearest appropriate unit. I can choose and use appropriate	•	I can recognise and name common 2-D shapes in different orientations and		properties of 2D and 3-D shapes, including the number of edges,
 to 20 I know the bonds of all numbers to 10 I begin to know 	 I can add and subtract two digits and ones. I can add and subtract a two- 	•	using standard units of measurement and equipment. I can recognise		standard units to estimate and measure length/height in any direction	•	sizes. I know my 'left' and 'right.' I can describe position, direction	•	vertices and faces I can identify line symmetry in a vertical line when exploring 2-D
 bonds of all numbers to 20 I can solve one- step problems by adding and 	 digit number and tens I can add and subtract two two- digit numbers 	•	different coins and notes I know the value of different coins and notes		(m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest	•	and movement, using the terms 'whole' and 'half' turns. I can describe	•	shapes. I can compare and sort common 2-D and 3-D shapes and everyday objects.
subtracting objects. I can add and subtract one-digit	 I can add three one-digit numbers I can show that addition of two 	•	I can say what happened: before and after, next, first, today,	•	appropriate unit I can compare and order lengths, mass,		position, direction and movement using the terms 'quarter' and	•	I can recognise and name 3-D shapes for example cylinder.
and two-digit numbers to 20, including 0.I can solve one-	numbers can be done in any order. I can show that addition of two		yesterday, tomorrow, morning, afternoon and evening.		volume/capacity and record the results using >, < and =	•	'three-quarter' turns. I begin to interpret simple pictograms	•	I can describe position, direction and movement, including
step + and - problems using objects and pictures.	numbers can be done in any order (commutative) and subtraction of one number from	•	time order using before and after, next, first, today, vesterday	•	symbols for pounds (£) and pence (p). I can add and subtract money of	•	is worth 1 unit. I can begin to interpret simple		straight line and rotation as a turn or as right angles for quarter, half
number problems.	 I can recognise and use the inverse 	•	tomorrow, morning, afternoon and evening. I can order the days	•	the same unit to solve problems. I can solve simple problems in a			•	and three-quarter turns I can use the terms clockwise and anti-
	 relationship between + and - I can recognise and use the 	•	of the week. I can use the days of the week, weeks, months and years.		practical context involving addition and subtraction of money of the same unit including				clockwise to describe position, direction and movement.
	relationship between addition and subtraction and solve missing	•	and sequence of the months I know the names of the seasons	•	giving change. I can find different combinations of coins that equal the			•	arrange combinations of mathematical objects in patterns
	number problems.	•	I can tell the time to the hour.		same amounts of money				and sequences.

		 I can use the inverse to check my answers. I can solve problems with + and - involving quantities and measures. I can solve problems with addition and subtraction using objects and pictures including those with more than one step. I can begin to solve + and - in columns without crossing boundaries 	 I can tell the time to the hour and half past the hour and half past the hour and draw the hands on a clock face to show these times. I can compare and solve practical problems for time using quicker, slower, earlier and later. I can measure and begin to record time (hours, minutes, seconds) 	 I can tell and write the time to quarter past the hour. I can tell and write the time to quarter to the hour and draw the hands on a clock face to show these times I can compare and sequence intervals of time I can tell and write the time to five minutes and draw the hands on a clock face to show these times I know the number of minutes in an hour and the number of hours in a day. 		 I can explore, describe and explain patterns. I can interpret and construct simple pictograms, tally charts and block diagrams. I can ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity I can ask and answer questions about totalling and comparing categorical data
Activities and Context	Practical addition and su Recording number sente Using bar model and rela Balance bars to explore v Number bonds with obje numicon, dienes, counte	btraction using objects. nces. Itionship triangles. what equals means. cts, pictures, cubes, rs and written.	Measure using their own Roman units of measure scales and different conta Use rulers, meter sticks, v and kg, measuring jugs in Explore how different size	representations. Look at like cubits. Use balance ainers. weighing scales in grams ml and l. es of container can hold	Explore shapes in differen Look at real life examples Explore nets and what sha Explore a range of sizes. Describe the properties of Sort shapes by what is the	t orientations. e.g. packaging. apes make up 3D shapes. f shapes. e same and what is
	 Word problems – same surface different deep. Mathematical vocabulary of word problems. Explore why difference means subtraction. Using number lines with different intervals, blank and self-drawn. Exploration of mental strategies from mental maths policy. Moving onto adding and subtracting measures, money, time and data on bar charts. Only introducing column at the end of year 2 – children should be fluent with number lines and mental strategies first. Daily counting stick practise. 		the same amount and wh Lots of work on reading s well as on measuring equ Using scales that count in tens. Using scales with number gaps. Adding and subtracting n Using charts to present d mass etc. Using money in role play. Explore change as the dif of money. Sorting coins and explorin	hat it looks like. cales as number lines as hipment. nones, twos, fives and rs written on and with honey and measures. ata collected on heights, ference between amounts ng their shapes.	different. Explore lines of symmetry using mirrors. Make patterns with symmetry. Give directions – link with bee bots and scratch. Link to clock face to explore turns. Making maps and giving directions. Moving shapes. Collect data. Add and subtract data. Explore symmetry and shape in repeating pattern Daily counting stick practise.	

Кеу	group, sort, add, subtract, difference, sum.	Lots of exploration of counting in tens and how many ten ps in one pound and how many pounds in ten pound. Making arrays with coins. Explore calendars and what changes and what stays the same. Fill out diaries and class calendars. Compare different classes time tables. Build their own class time table. Explore patterns on a clock. Have watches to wear. Use stopwatches. Link to science and time activities – present using graphs and answer questions. Fill in missing parts of calendars and time tables. Using number lines to add money and time. Partitioning into pounds and pennies, hours and minutes. Daily counting stick practise.	circle, square, triangle, cube, cuboid, sphere,			
Vocabulary from EYFS	Addition, Subtraction, Equal, Bar Model, Total, Altogether, Commutative, Inverse, Regrouping, equation.	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,	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.			
Maths Super	Conjecture: Yr 1 - Predict the next few in a sequen	ce. Begin to work out the 10 th in a sequence. Describe	what is changing in a sequence. Begin to use age			
powers	appropriate mathematical vocabulary.					
	Yr 2 - Identify patterns in number sequences and p	redict what will come next. Describe what is changing	and what is staying the same in sequences. Use age			
	appropriate mathematical vocabulary. Begin to explain why. Begin to identify and explain rules when calculating from given examples.					
	Convince: Yr 1 - Begin to use mathematical termin	ology independently. With support, use equipment to	aid their explanation.			
	Yr 2 - With the support of a scaffold, write explana	tions that use mathematical terminology. Select equip	ment that supports their explanations.			
	Organise: Yr 1 - Independently set their own criter counting easier. With support, record in a systema	ia for sorting. Identify when items do not fit their crite tic way.	ria. Begin to understand why grouping can make			

	Yr 2 - Use venn diagrams which overlap to identify when objects, shapes or numbers belong in multiple groups. Identify mathematical criteria for sorting with increasing independence. Use grouping to make calculations easier. Begin to understand what systematic means and use tables and grids to record.
	Classify: Yr 1 - Describe what is the same about items in a group and what is different from other groups. With support, give explanations for their criteria when sorting.
	Yr 2 - Begin to explain why some items belong or do not belong in a group. Explain their own choices for sorting using some mathematical vocabulary. Explain why some items belong in multiple groups.
	Describe what is the same and what is different when looking at groups of numbers e.g odd and even, multiples of 3.
	Imagine: Yr 1 - Select concrete objects and pictorial images to support learning. Use given bar models, relationship triangles and part-part-whole diagrams. Yr 2 - Explain why they have selected concrete of pictorial resources to support learning. Use jottings to support calculations. Independently select resources to support with problem solving and to explain their learning to others. Draw bar models, relationship triangles and part-part-whole diagrams to support with problem solving.
	Express: Yr 1 - Talk about maths problems with an adult and with their peers. Use different resources and representations. Yr 2 - Present a problem and its solution to adults and their peers. Ask mathematical questions.
	Specialise: Yr 1 - Begin to prove/disprove given rules by testing examples with support. Yr 2 - Begin to prove/disprove given rules by testing examples.
	Generalise: Yr 1 - Begin to explain rules using sometimes, always, never questions. Yr 2 - With some support, identify rules for times tables, shape names, finding fractions, adding and subtracting odd numbers. Use a scaffold, to record rules.
Possible books to	One is a snail and ten is a crab by April Pulley Sayre, 100 hungry monkeys by Masayuki Sebe, 100 days of cool by Stuart J Murphy, Alien Even and Alien Odd by Kathleen L Stone, The greatest gymnast of all by Stuart J Murphy, Senefer by Beatrice Lumpkin, Everyone can learn Math by Alice Aspinall.
support teaching. From EYFS	A place for zero by Angeline Sparagna Lopresti, How many legs by Kes Grey, Footprints in the snow by Michael Dahl, Monarch Migration – counting by 10s by Megan Atwood, All the little one and a half by Mary Murphy, Penguin Place Value by Kathleen L Stone, None the number by Oliver Jeffers, Zero by Kathryn Otoshi, The shopping basket by John Burningham, Uno's garden by Graeme Base, Mathews sunshine bakery by Kathleen L Stone, Twice my Size by Adrian Mitchell, The doorbell rang – Pat Hutchins, Grandma's quilts by Kathleen L Stone, Have you seen my Monster? By Steve Light, Square Bear by M.W.Penn, Tangram cat by Maranke Rinck, The Monster Diaries by Luciano Saracino, The Great Pet Sale, Equal Schmequal by Virginia Kroll, The best food in the Forest by Mi-ae Lee.
	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.