	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
		Numk	er sense			Additive Re	easoning	
	tables that you wand steps that h	want the children to elp children with me this to linear numbe	count in steps of the rehearse, decimal an ental calculation strater sequences in algebra and negative integers	d fraction steps egies such as 25, a.				
Term 1 Survival	Place Value Terms – positional, multiplicative, additive, base10 Place Value Grids & Digit cards Gettegno charts	Link to measurement- practical activities with mass capacity & vice versa Ordering and comparing, Greater than, less than, equals	Fractions – link to division and decimal place value, whole part relationships (animals) Problem solving throughout	Link to percentages /100 and make explicit links with f,d,p Pie charts, examples & bar modelling, Problem solving throughout	Mental Calculation – partitioning, doubling, halving, number pairs, multiples of 10 and adjusting, using known number facts, bridging through 10, counting on and counting back Time difference and durations Bar charts Perimeter and its formula Missing number problems link to	Written methods for addition and subtraction, whole numbers, subtraction to check and vice versa Bar charts, finding totals and differences	Written methods for addition and subtraction, including decimals, Measures of length, cm and mm, mass kg and g, capacity, I and ml, practical activities and problem solving (sand)	Assessment Week

		Multiplicat	ive Reasoning		Geo	metric Reasor	ning	
Term 2	Mental	Written methods	Written methods	Scaling up and	3D shape: using	2D shape:	2D shape:	
1611112	calculation	with reasoning	with reasoning for	scaling down.	plasticine to	compare and	drawing using	
Survival	strategies,	for	division and	Link to doubling	make sphere,	classify shapes	given	
Jui vivui	partitioning	multiplication	multiplication as	and fractions.	cube, cuboid,	according to	dimensions	
	(123/4)	and division as	the inverse.	Currency	pyramid,	properties. Focus	and angles,	
	doubling and	the inverse.	Use manipulatives	conversion and	exploring what	on different	focussing on	
	doubling,	Make arrays	for 4 digits by	metric to	doing to get	named	how to use a	
	halving and	using place value	single digit.	imperial	each new shape	quadrilaterals	protractor.	
	halving, x by 5	counters for 4	Checking using	conversion	and properties	and triangles	Exploring	
	and 10 and	digit	multiplication.	through problem	and then		missing angles	
	halving, / by 5	multiplication by	Word problems	solving.	visualising net		in shapes	
	and/ by 10 and	single digit and	that have	Link this to ratio.	of pyramid,		using formula,	
	doubling by 20	link to grid	remainders and		then cube.		e.g. a = 180 –	
	by x10 and	method and	the children need		Exploring which		(b + c)	
	double /20 by	then sort written	to decide what to		patterns make			
	/10 and	method. Link	do, e.g. 145		nets and which			
	halving, x by	this to division	children going on		don't.			
	15, x by 10,	using the array,	trip, mini buses		Repeat net			
	halve and add,	for example, 1	hold 9 children.		work for			
	using known	365 x 3 = 4 095,	How many mini		cuboids, prisms.			
	facts,	so 4 095 ÷ 365 =	buses needed?		Pyramid			
	Grouping	3 and link to 4			problem:			
	Bar model	095 ÷ 3 = 365.			tetrahedron,			
	problems, e.g.	Link to			how many			
	Sam had 23	measures: 1l			faces, edges,			
	cars, Tom had	245ml juice in a			vertices, square			
	5 times as	jug, how much in			based pyramid,			
	many. How	6 jugs?			how many f, e,			
	many more did				v, same for			

Tom have?	pentagonal		
Link in with	based pyramid,		
finding areas	look for the		
and solid	pattern, then		
volumes and	work out how		
exploring the	many f, e, v on		
formulae for	a 100 sided		
these –	based pyramid		
practically on	and then		
squared paper	generalisation		
and using	for n sided		
interlocking	based pyramid.		
cubes.	Similar one for		
Creating, e.g.	prisms		
time/distance			
line graphs			
where scale			
goes up in			
multiples the			
children need			
to practice			
Missing			
number			
problems			
linking to			
algebra			

		Numb	er Sense		<i>A</i>	Additive Reaso	oning	
Term 3 India	Place Value as in term 1 Also include algebra: finding pairs of numbers that satisfy an equation with two unknowns, e.g. a + b = 148 a - 36 = b	Negative numbers within the context of temperature, money and depth below sea level	Fractions, decimals and percentages: addition and subtraction, finding equivalences to do this, counting in fractional steps, improper fractions and mixed numbers – link to addition and counting, e.g. ½, 1, 1 ½, 2, 2 ½, how many halves? Multiplying and dividing fractions	ASSESSMENT WEEK	Mental calculation strategies as in Term 1, picking up on any that weren't covered, linking to time differences and durations, perimeter	Written calculation methods for addition and subtraction, linking to money multi- step problems		

		Multiplicati	ve Reasoning		Geometric	Reasoning	
Term 4 India	Mental Calculation as in term 2 Also include finding pairs of numbers that satisfy an equation with two unknowns, e.g. a x 12 = b, a x b = 48	Written methods for multiplication and division Long multiplication through grid method Statistics: line graphs, bar graphs and mean of a set of data	Scaling up and scaling down as in term 2	Interesting numbers: primes, squares linking to area, cubes linking to volume Factor and multiple investigations.	Circles: radius, diameter, circumference Drawing triangles and quadrilaterals to given dimensions and angles Finding missing angles linking to algebra	Full coordinate grid work Translation	

Term 5	SATs Revision	SATs Revision	SATs Revision	SATS WEEK	Exciting project that		
	Place value with	Algebra:	Geometric		involves all		
WWii	addition and	enumerate	Reasoning:		learnt over		
44 44 11	subtraction of	possibilities of	Properties of		the year, e.g.		
	positive and	combinations of	shapes including		planning a		
	negative	two variables,	symmetry		holiday,		
	numbers	e.g. ice cream,	Translation		designing a		
	Additive	football kits	Coordinates		bedroom,		
	reasoning	Multiplicative			theme park		
		reasoning					

Term 6	Exciting project	Exciting project	Exciting project	Exciting project	Exciting
1611110	that involves all	that involves all	that involves all	that involves all	project that
	learnt over the	learnt over the	learnt over the	learnt over the	involves all
WWii	year, e.g.	year, e.g.	year, e.g. planning	year, e.g.	learnt over
	planning a	planning a	a holiday,	planning a	the year, e.g.
	holiday,	holiday,	designing a	holiday,	planning a
	designing a	designing a	bedroom, theme	designing a	holiday,
	bedroom,	bedroom,	park	bedroom,	designing a
	theme park	theme park		theme park	bedroom,
					theme park