Autumn 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Basic Skills / Daily Mental Maths	Using partitioning to add with increasingly larger numbers (move on to bigger numbers as needed) 432 + 123 = 400 + 100 30 + 20 2+ 3	Number inside a number to calculate – 360-95 = 360 – 60 – 30 – 5 Progress to larger numbers.	Count on a number line to subtract (move on to bigger numbers as needed). $300 - 99 =$ $99 + \frac{1}{1} = 100$ $100 + 200 = 300$ $So \dots 200 + 1 = 201$	Multiply by partitioning 132 x 5 = 100 x 5 30 x 5 and 2 x 5 Progress to larger numbers.	Using known multiplication facts and inverse division facts to solve calculations 7 x 5 = 35 70 x 5 = 350 Progress to larger numbers.	stigations and puzzles. Use tent as the children apply	Measurement (Time) Know (and convert) the number of seconds in a minute, and the number of days in each month, year and leap year.
Maths Unit	Number Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit.	Number Round any whole number to a required degree of accuracy.	Addition and Subtraction Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.	Multiplication Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication	Division Divide numbers up to 4 digits by a two-digit whole number using the formal written method of <b>long</b> division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context.	tions/Assessment Week taught this half term through inve source of application and assess their knowledge.	Multiplication and Division Use their knowledge of the order of operations to carry out calculations involving the four operations
Reasoning/ Problem Solving	Solve number and practical problems that involve all of the above.		Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.	Solve problems involving multiplication and division.         Solve problems involving multiplication and division.		Investiga Ils they have been o, this is a valuable t	Explore the order of operations using brackets; for example, $2 + 1 \ge 3 = 5$ and $(2 + 1) \ge 3 = 9$ .
X tables	TTRS Counting Sticks Children should be secure with all of their tables up to x12 by the end of Year 4. Identify those who are not and target them through TTRS heat maps and daily recall.	TTRS Counting Sticks	TTRS Counting Sticks	TTRS Counting Sticks	TTRS Counting Sticks	Allow children to apply ski NRICH investigations to	TTRS Counting Sticks

Mental Maths strategies should be kept on the boil throughout all units, remind children of them when you model concepts. Drip-feed teaching Time, use daily opportunities to teach/discuss it.									
Number and Place Value	Multiplication and Division	Addition and Subtraction	Fractions/Decimals	Geometry	Statistics	Measures			

Autumn 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
	Multiples and Factors	Multiplication	Division	Multiplication and Division	Addition		Compensate to subtract
ths					Use near doubles to add	suc	
/lat	Identify common multiples	Multiplying by 10, 100 and 1000.	Dividing by 10, 100 and	Multiplying and dividing by 10, 100 and		atic	35 - 18 = ?
l la	and factors.	Model with a place value board.	1000. Model with a place	1000. Model with a place value board.	123 + 125 = 125 + 125 - 2	136.	
ints	,, <b>,</b> , ,	I I I I I I I I I I I I I I I I I I I	value board	, , , , , , , , , , , , , , , , , , ,		est	Add two to 18 to make 20
Me			runne ootnitu		Progress to larger numbers	nv	(friendly number)
ily					r rogress to tanger handerst	H.	35 - 20 = 15
Da						ge	55 26 - 15
ls /						led NR	Then add 2 back on
kil						ow se	$15_{\pm}2-17$
ic S						ŭ ŭ	13+2-17
asi						es.	Progress to apply the above
I						the	skill to 3 and 4 digit numbers
	Coomotre	Fractions	Exactions	Maggungement	Statistics	pu Vic	Maggungement (Area and
	Geometry	Fractions	Fractions	Wieasurement	Stausues	api	Destination)
	Company and alocaify	Use common feators to signalify	Add and subtract fractions	Use mod write and convert between	Coloulate and interment the mean	en .	r er mieter)
	Compare and classify	Use common factors to simplify	Add and subtract fractions	Use, read, write and convert between	Calculate and interpret the mean	ldr	Coloritate the area of
	geometric shapes based on	fractions, use common multiples		standard units, converting measurements	as an average.	sat	
it	their properties and sizes and	to express fractions in the same	and mixed numbers, using	of length, mass, volume and time from a	<b>.</b>	stij Be o	parallelograms and triangles
Un	lind unknown angles in any	denomination.	the concept of equivalent	smaller unit of measure to a larger unit,	Interpret and construct pie charts	We live s th	
l su	triangles, quadrilaterals, and		fractions.	and vice versa, using decimal notation to	and line graphs and use these to	nt hii hta	
atl	regular polygons.	Compare and order fractions,		up to three decimal places	solve problems.	ner ner	
Μ		including fractions > 1.				SSI SSI	
	Recognise angles where they			Convert between miles and kilometres.		sse sse	
	meet at a point, are on a					/A err 1 a:	
	straight line, or are vertically					an and	
	opposite, and find missing					on on	
	angles.	Calue and have investigated to all and		Column and have investigated a coloral time	Salaa aashlama inaalaina allaf	ttig this cati	December it is nearly to
	dimensions and angles	Solve problems involving the above	÷.	and conversion of units of measure, using	the above in different contexts	ht plii	to use formulae for area of
	unnensions and angles.			and conversion of units of measure, using	the above in different contexts.	apj	to use formulae for area of
ing				decimal notation up to three decimal		n ta of	snapes
lng/ olvi				places where appropriate.		Jeel	Solve problems involving the
oni a S				Solve problems involving the calculation		/e ł sou	calculation of percentages [for
asolen				of percentages [for example, of measures		hav le s	example of measures and such
Ré				and such as 15% of 3601 and the use of		ey lab	$a_{\rm s}$ 15% of 3601 and the use of
Pr				nercentages for comparison		alt	percentages for comparison
				percentages for comparison.		a v	percentages for comparison.
						s is	
	TTRS	TTRS	TTRS	TTRS	TTRS	pply	TTRS
	Counting Sticks	Counting Sticks	Counting Sticks	Counting Sticks	Counting sticks	o af D0,	Counting Sticks
	Children should be secure	-	-		-	n tc tc	-
es	with all of their tables up to					Irei	
tab	x12 by the end of Year $\hat{4}$ .					nild	
XI	Identify those who are not					ct	
	and target them through					MO	
	TTRS heat maps and daily					All	
	recall.					,	

Mental Maths strategies should be kept on the boil throughout all units, remind children of them when you model concepts. Drip-feed teaching Time, use daily opportunities to teach/discuss it.									
Number and Place Value	Multiplication and Division	Addition and Subtraction	Fractions/Decimals	Geometry	Statistics	Measures			

Spring 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
	Multiplication & Division	Multiplication and Division	Fractions	Fractions	Fractions		Roman Numerals
Basic Skills / Daily Mental Maths	Identify prime numbers.	Recognise and use factor pairs and commutativity in mental calculations. One factor of 36 is 4, what is its pair?	Find fractions of amounts.	Find percentages of amounts.	Recognise and write decimal equivalents to <sup>1</sup> / <sub>4</sub> <sup>1</sup> / <sub>2</sub> and <sup>3</sup> / <sub>4</sub> . <i>Recall Known Facts:</i> 25/100 = 0.25 = <sup>1</sup> / <sub>4</sub> 50/100 = 0.5 = 2/4 75/100 = 0.75 = 3/4	s and puzzles. Use NRICH n apply their knowledge.	Read Roman Numerals to 1000 (M) and recognise years written in Roman Numerals.
	Geometry	Division	Fractions	Fractions	Fractions	ions	Measurement
Maths Unit	Describe positions on the full coordinate grid (all four quadrants) Draw and translate simple shapes on the coordinate plane, and reflect them in the axes	Divide numbers up to 4 digits by a two-digit number using the formal written method of <b>short</b> division where appropriate, interpreting remainders according to the context.	Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places.	Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, <sup>1</sup> / <sub>4</sub> x <sup>1</sup> / <sub>2</sub> = 1/8] Multiply one-digit numbers with up to two decimal places by whole numbers.	Divide proper fractions by whole numbers [for example, $1/3 \div 2 = 1/6$ ] Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8]. Use written division methods in cases where the answer has up to two decimal places.	stigations/Assessment Week taught this half term through investigati of application and assessment as the chil	Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm3) and cubic metres (m3), and extending to other units [for example, mm3 and km3]
	Solve problems involving	Solve problems involving the	Use written division methods in cases	where the answer has up to two decimal	Solve problems involving multiplication	been been	Solve problems
Reasoning/ Problem Solving	missing coordinates.	above.	places. Solve problems which require answer accuracy. Recall and use equivalences between percentages, including in different con	s to be rounded to specified degrees of simple fractions, decimals and ntexts.	and division.	I skills they have t is a valuable sou	involving volume. Recognise when it is possible to use formulae for volume of shapes
	TTRS Counting Sticks	TTRS Counting Sticks	TTRS Counting Sticks	TTRS Counting Sticks	TTRS Counting Sticks	ıpply	TTRS Counting sticks
X tables	Children should be secure with all of their tables up to x12 by the end of Year 4. Identify those who are not and target them through TTRS heat maps and daily recall.					Allow children to a investigations too	Counting SUCKS

Mental Maths strategies should be kept on the boil throughout all units, remind children of them when you model concepts. Drip-feed teaching Time, use daily opportunities to teach/discuss it.									
Number and Place Value	Multiplication and Division	Addition and Subtraction	Fractions/Decimals	Geometry	Statistics	Measures			

Spring 2	Week 1	Week 2	Week 3	Week 4	Week 5		
	Known Facts – Halving	Partition to divide	Partition to multiply	Square Numbers	Cube Numbers		
Basic Skills / Daily Mental Maths	Half of $1000 = 500$ Half of $500 = 250$ Half of $300 = 150$ Half of $100 = 50$ Half of $50 = 25$ Apply this pattern to larger numbers.	<b>126 divided by 6 =</b> 120 divided by 6 then 6 divided by 6	123 x 5 = 100 x 5 20 x 5 3 x 5 Progress to larger numbers.	Recognise and use square numbers numbers, and the notation for squared (2).	Recognise and use cube numbers, and the notation for cubed (3).		
	Statistics	Geometry	Number	Four operations			
Maths Unit	Use simple formulae Generate and describe linear number sequences. Express missing number problems algebraically Find pairs of numbers that satisfy an equation with two unknowns Enumerate possibilities of combinations of	Recognise, describe and build simple 3-D shapes, including making nets <b>Geometry</b> Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius	Use negative numbers in context, and calculate intervals across zero.	<ul> <li>Use their knowledge of the order of operations to carry out calculations involve the four operations.</li> <li>Perform mental calculations, including with mixed operations and large number Solve problems involving addition, subtraction, multiplication and division</li> <li>Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.</li> <li>Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples</li> </ul>			
Reasoning/ Problem Solving	two variables Solve problems involving all of the above.	Draw shapes and nets accurately, using measuring tools and conventional markings and labels for lines and angles.	Solve problems involving interpreting graphs involving negative numbers.	Solve problems involving similar shapes where the scale factor is known or can be found Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison. Explore the order of operations using brackets; for example, 2 + 1 x 3 = 5 and (2 1) x 3 = 9.			
X tables	TTRS Counting Sticks Children should be secure with all of their tables up to x12 by the end of Year 4. Identify those who are not and target them through TTRS heat maps and daily recall.	TTRS Counting Sticks	TTRS Counting Sticks	TTRS Counting Sticks	TTRS Counting Sticks		

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Number and Place Value	Multiplication and Division	Addition and Subtraction	Fractions/Decimals	Geometry	Statistics	Measures			

Summer 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
easoning/ Maths Basic Skills / Problem Unit Daily Mental Solving Maths portunitie s	Revision gaps from	n and booste n previous S and daily A	SATs Week	tions/Assessment Week they have been taught this half term through b NRICH investigations too, this is a valuable sment as the children apply their knowledge.		
X tables R	TTRS Counting Sticks Children should be secure with all of their tables up to x12 by the end of Year 4. Identify those who are not and target them through TTRS heat maps and daily recall.	TTRS Counting Sticks	TTRS Counting Sticks	TTRS Counting Sticks	Investiga Allow children to apply skills investigations and puzzles. Us source of application and asse	TTRS Counting Sticks

Mental Maths strategies should be kept on the boil throughout all units, remind children of them when you model concepts. Drip-feed teaching Time, use daily opportunities to teach/discuss it.									
Number and Place Value	Multiplication and Division	Addition and Subtraction	Fractions/Decimals	Geometry	Statistics	Measures			

Summer 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6			
Basic Skills / Daily Mental Maths	Allow the children to apply what they have learnt so far in a variety of different ways and contexts:								
Maths Unit	<ul> <li>NRICH investigations and puzzles.</li> <li>Address gaps in learning.</li> <li>Year 6 Enterprise Project.</li> <li>Maths Transition activities.</li> <li>Daily Times Tables</li> </ul>								
Reasoning/ Problem Solving Opportunities	Daily Times Tables								
Investigation Opportunities									
X tables	TTRS Daily Snappy Maths End of year target: recall multiplication and division facts for x tables up to 12x12.	TTRS Daily Snappy Maths	TTRS Daily Snappy Maths	TTRS Daily Snappy Maths	TTRS Daily Snappy Maths	TTRS Daily S.M.			

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Number and Place Value	Multiplication and Division	Addition and Subtraction	Fractions/Decimals	Geometry	Statistics	Measures			