Autumn 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
	Counting	Counting	Partitioning	Adjust to subtract	Compensate to subtract	Number bonds to add	
Basic Skills / Daily Mental Maths	Count in multiples of 6. Review counting in 3s and discuss the relationship between 3 and 6, double 3 is 6. Explore using that knowledge to calculate, for example, if 1 know $4 \times 3 = 12$, 1 can double 12 to answer $4x6=24$. Use counting sticks, hundred squares and/or gattegno charts to model counting in multiples of 6s.	Count in multiples of 7. Use counting sticks, hundred squares and/or gattegno charts to model counting in multiples of 7s.	Partition numbers up to four digits in as many different ways as possible. 56 = 50 + 6, 25 + 25 + 6, 50 + 3 + 3 Progress to apply the above skill to 3 and 4 digit numbers.	Use number line to add on to subtract. Adding up to nearest tens. 87-25 = 2587 Progress to apply the above skill to 4 digit numbers.	35 – 18 = ? Add two to 18 to make 20 (friendly number) 35 - 20 = 15 Then add 2 back on 15+2=17 <i>Progress to apply the above skill to</i> <i>3 and 4 digit numbers.</i>	Use number bonds to add mentally. 13 + 7 = ? 3+7 = 10 so 10 + 10 = 20 23 + 7 = 3 + 7 = 10, so 10 + 20 = 30 Progress to apply the above skill to 3 digit number and 4 digit numbers.	h investigations and puzzles. Use NRICH at as the children apply their knowledge. 0, 3, 4 and 8.
Maths Unit	Place Value Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) Read and write numbers up to four digits.	Place Value Order and compare numbers beyond 1000. Find 1000 more or less than a given number.	Addition Add numbers with up to 4 digits using the formal written methods of columnar addition where appropriate.	Subtract numbers with up to 4 digits using the formal written methods of columnar subtraction where appropriate.	Subtraction Subtract numbers with up to 4 digits using the formal written methods of columnar subtraction where appropriate.	Geometry Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. Identify lines of symmetry in 2-D shapes presented in different orientations.	Investigations Week taught this half term throug of application and assessmen tables taught so far – 2, 5, 1
Reasoning/ Problem Solving	Identify, represent and estimate numbers using different representations Solve number and practical problems that involve all of the above and with increasingly large positive numbers.	Identify, represent and estimate numbers using different representations Solve number and practical problems that involve all of the above and with increasingly large positive numbers.	Estimate and use inverse operations to check answers to a calculation. Solve addition two-step problems in contexts, deciding which methods to use and why.	Estimate and use inverse operations to check answers to a calculation. Solve subtraction two-step problems in contexts, deciding which methods to use and why.	Estimate and use inverse operations to check answers to a calculation. Solve subtraction two-step problems in contexts, deciding which methods to use and why.	Complete a simple symmetric figure with respect to a specific line of symmetry	ly skills they have been nis is a valuable source a Review all times
X tables	5s and 10s (the relationship between them, doubles and end in 0 and/or 5) TTRS Counting Sticks End of year target: recall multiplication and division facts for x tables up to 12x12.	5s and 10s (discuss half of 100, half of 50) TTRS Daily Snappy Maths	2s and 4s (the relationships between them – the 4 times tables are double the 2s) TTRS Counting Sticks	2s and 4s (the relationships between them – the 2 times tables are half of the 4 times tables) TTRS Counting Sticks	4s and 8s (the relationships between them – the 8 times tables are double the 4s) TTRS Counting Sticks	4s and 8s (the relationships between them – the 4 times tables are half of the 8 times tables) TTRS Counting Sticks	Allow children to app investigations too, th

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
aily Is	Counting	X 10, 100 and 1000 mentally.	Dividing mentally:	Multiplication and Division	Dividing by 4.	and	Time
Iath	Count in multiples of 9.	Children need to understand that the	Use place value, known and	Continue to multiply and divide by	Encourage children to halve	ions and	Know (and convert) the
kills al N	Use counting sticks and	answer increases in multiplication. The Dienes and the 1-10-100-1000	derived facts to divide mentally,	10, 100 and 1000 mentally in preparation for converting	the number and halve again when dividing by 4 Model	tigat ion	number of seconds in a minute and the number of
ic Sl lent	hundred squares.	show visually what happens as the	dividing by 1.	measures later in the year.	this by cutting a 2D shape in	ivest	days in each month, year and
Bas N	1	digits move left.	0.2	ý	half, then halving it again to	gh in appi	leap year.
			Example strategies to teach:		model quarters.	roug e of ge.	
	Measures (Area and	Multiplication	Use the inverse to divide	Division/Fractions	Fractions	m th ourc vled	Measures (time)
	Perimeter)	Multiply two-digit and three-digit	48 divided by 8 = ?	Find the effects of dividing a one or	Recognise and show using	f ter le sc knov	Read write and convert time
	Measure and calculate the	numbers by a one-digit number using	8 x 8 = 48, so 48 divided by 8 =	two digit number by 10 and 100,	diagrams, families of	k half luab leir l	between analogue and digital
	perimeter of a rectilinear figure	formal written layout.	8.	identifying the value in the digits as	common equivalent fractions.	Vee this a va ly th	12- and 24-hour clocks.
^I nit	(including squares) in			ones, tenths and hundredths.		ught is is app	The same for insertion time
IS L	centimetres and metres.		Partition to divide.	Children need to understand that the		g atio n tau o, thi dren	with Santa and time What time
lath	Find the area of rectilinear		48 divided by 3 = 16	answer decreases in division. The		estig bee s toc child	does he start work? How long
N	shapes by counting squares.		D	Dienes alongside the 1, 10, 100,		Linv Dave tion	does he sleep?
			Partition 48 into 30 and 18:	1000 show visually what happens as		ney] stiga nt as	
			30 divided by $3 = 10$	the digits move left.		lls tl nve: smei	
			18 divided by $3 = 6$			/ ski CH i ssess	
	-		So 10 + 6 = 16			Pply NRIG	
1	Inverses: Allow children the opportunity	and adding including using the	Apply these skills in different	Apply these skills in different	solve problems involving]se]	converting from hours to
uing em ng	to not only calculate perimeter	distributive law to multiply two digit			to calculate quantities, and	drer es. l	minutes; minutes to seconds;
ison obl	but to use the perimeter to	numbers by one digit, integer scaling			fractions to divide quantities,	chil uzzl	years to months; weeks to days.
Rea Pr S(calculate lengths of sides.	problems and harder correspondence			including non-unit fractions	p	
		connected to m objects			number.	A	
	TTRS	TTRS	TTRS		TTRS		TTRS
							Counting Sticks Focus: Revisit
	Counting Sticks Focus: 3s and	Counting Sticks Focus: 3s and 6s (the	Counting Sticks Focus: 7s (7 is a j	prime number so no obvious patterns	Counting Sticks Focus: 9s (multiple on the one of the one one of the one of the one of the one of the one of t	tiples of 9 -	7s from week 3 and 4.
	them $-$ the 6 times tables are	times tables are half of the 6 times	remember and will come up often	on the MTC, this is a memory game	time until it reaches zero and it	goes back	
	double the 3s)	tables)	– keep on practising!)		to 9. The tens column increases	by one	
oles					each time. You can easily tell w	whether a	
K tal	End of year target: recall multiplication and division				number is a multiple of 9 by add	ding the	
ĸ	facts for x tables up to $12x12$.				equal 9, then the number is a m	ultiple of 9.	
	yy				You can always multiply a num	ber by 10	
					then adjust by subtracting, for e	xample, if	
					a child is stuck with $3 \times 9 = ?$, the multiply 3 by 10, then subtract		
					27).	5 winch 15	

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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
Basic Skills / Daily Mental Maths	Use knowledge of near doubles to add mentally. 25 + 26 = 51 (26 can be partitioned into 25+1, so 25+25 = 50, 50+1=51) 150+152=302 (152 can be partitioned to 150 + 2, double 150 is 300, 300 + 2 = 302). Progress to 4 digit numbers.	Adjust to subtract mentally (-9 and -11 to start with). 37-9=28 (Adjust 9 by adding one to it to make 10, 37-10 = 27, then adjust the answer by adding 1, 27+1= 28) Apply the same with -11, but encourage children to partition 11 into 10 + 1, take 10 away first, then take 1 away. Progress to apply the above skill to 3 digit numbers.	Multiplication and Division Continue to multiply and divide by 10, 100 and 1000 mentally.	Counting Count in multiples of 25 and 1000. Make links using shapes to 25 = ¼ of 100 and 250 is ¼ of 1000. Use counting sticks and hundred squares.	Number/Fractions Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. Use counting sticks, Dienes, 2d shapes	nvestigations and puzzles. Use NRICH is the children apply their knowledge.	Decimals Recognise and write decimal equivalents of any number of tenths or hundredths.
Maths Unit	Add numbers with up to 4 digits using the formal written methods of columnar addition where appropriate.	Subtract numbers with up to 4 digits using the formal written methods of columnar subtraction where appropriate.	Measures (Volume/capacity/mass/ length) Convert between different units of measure [for example, kilometre to metre; hour to minute]	Rounding Round any number to the nearest 10, 100 or 1000.	Fractions (Decimals) Round decimals with one decimal place to the nearest whole number.	tigations/Assessment Week taught this half term through ii f application and assessment <i>i</i>	Measures (Money) / Fractions Solve simple measure and money problems involving fractions and decimals to two decimal places.
Reasoning/ Problem Solving	Estimate and use inverse operations to check answers to a calculation. Solve addition two-step problems in contexts, deciding which methods to use and why.	Estimate and use inverse operations to check answers to a calculation. Solve subtraction two-step problems in contexts, deciding which methods to use and why.	Estimate, calculate and compare different measures.	Solve number and practical problems involving rounding.	Estimate, compare and calculate different measures, including money in pounds and pence. <i>Convert between pounds and</i> <i>pence.</i>	Invest pply skills they have been t this is a valuable source or	Estimate, compare and calculate different measures, including money in pounds and pence. <i>Convert between pounds</i> <i>and pence.</i>
X tables	TTRS Counting Sticks Focus: Revisit 9s from Autumn 2 week 5 and 6. End of year target: recall multiplication and division facts for x tables up to 12x12.	TTRS Counting Sticks Focus: 11s (to find 8x11, children could multiply by 10 then add 8)	TTRS Counting Sticks Focus: 6s and 12s (the relationships between them – the 12 times tables are double of the 6 times tables)	TTRS Counting Sticks Focus: 6s and 12s (the relationships between them – the 6 times tables are half of the 12 times tables)	TTRS Counting Sticks Focus: 6s and 12s (the relationships between them – the 6 times tables are half of the 12 times tables)	Allow children to ar investigations too,	TTRS Counting Sticks: 12s (all multiples are even, the 0,2,4,6,8,0 pattern repeats through all the 12x tables $(0, 12, 24, 36,48, 60)$

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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
Basic Skills / Daily Mental Maths	Decimals Recognise and write decimal equivalents to 1/4 1/2 and 3/4. Recall Known Facts: 25/100 = 0.25 = 1/4 50/100 = 0.5 = 2/4 75/100 = 0.75 = 3/4	Known Facts – Halving Half of 1000 = 500 Half of 500 = 250 Half of 300 = 150 Half of 100 = 50 Half of 50 = 25	Partition to multiply mentally. 13 x 4 = Partition 13 into 10 and 3. Multiply 10 x 4 = 40 Multiply 3 by 4 = 12 So 40 + 12 = 52	Number Count backwards through zero to include negative numbers.	tent Week In taught this half term through stigations too, this is a valuable shildren apply their knowledge.
Maths Unit	Fractions (Decimals) Compare numbers with the same number of decimal places up to two decimal places.	Geometry (angles) Identify acute and obtuse angles. Compare and order angles up to two right angles by size.	Multiplication Revisit Multiplying two-digit and three-digit numbers by a one-digit number using formal written layout. Move on to multiplying together three numbers, including multiplying by 0 and 1.	Statistics Interpret and present discrete and continuous data using appropriate graphical methods (bar charts).	Investigations/Assessm to apply skills they have bee nd puzzles. Use NRICH invec- cation and assessment as the c
Reasoning/ Problem Solving	Solve simple measure and money problems involving fractions and decimals to two decimal places.	Apply skills above in different contexts.	Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.	Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.	Allow childrer investigations a source of appli
X tables	TTRS Counting Sticks End of year target: recall multiplication and division facts for x tables up to 12x12.	TTRS Counting Sticks	TTRS Counting Sticks	TTRS Counting Sticks	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 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Basic Skills / Daily Mental Maths	Prepare for MTC – use individual heat map grids to target the children in class. Times tables starters all this half term.	Prepare for MTC – use individual heat map grids to target the children in class. Times tables starters all this half term.	Prepare for MTC – use individual heat map grids to target the children in class. Times tables starters all this half term.	Prepare for MTC – use individual heat map grids to target the children in class. Times tables starters all this half term.	stigations and puzzles. ssment as the children	Prepare for MTC – use individual heat map grids to target the children in class. Times tables starters all this half term.
Maths Unit	Decimals Round decimals with one decimal place to the nearest whole number. Compare numbers with the same number of decimal places up to two decimal places.	Number (Roman numerals) Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.	Fractions Add and subtract fractions with the same denominator.	Statistics Interpret and present discrete and continuous data using appropriate graphical methods, revisit bar charts and introduce time graphs.	ns/Assessment Week taught this half term through inve ble source of application and asse their knowledge.	Geometry Describe positions on a 2-D grid as coordinates in the first quadrant. Describe movements between positions as translations of a given unit to the left/right and up/down
Reasoning/ Problem Solving Opportunities	Solve simple measure and money problems involving fractions and decimals to two decimal places.	Apply knowledge of Roman numerals in other contexts such as telling the time	Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.	Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.	Investigatio ply skills they have been 1 gations too, this is a valual apply t	Plot specified points and draw sides to complete a given polygon.
X tables	Prepare for MTC – use individual heat map grids to target the children in class. Times tables starters all this half term.	Prepare for MTC – use individual heat map grids to target the children in class. Times tables starters all this half term.	Prepare for MTC – use individual heat map grids to target the children in class. Times tables starters all this half term.	Prepare for MTC – use individual heat map grids to target the children in class. Times tables starters all this half term.	Allow children to al Use NRICH investi	Prepare for MTC – use individual heat map grids to target the children in class. Times tables starters all this half term.

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

Summer 2	Week 1 MTC testing	Week 2 MTC testing	Week 3 MTC testing	Week 4	Week 5	Week 6	Week 7
Basic Skills / Daily Mental Maths	Prepare for MTC – use individual heat map grids to target the children in class. Times tables starters all this half term.	Prepare for MTC – use individual heat map grids to target the children in class. Times tables starters all this half term.	Prepare for MTC – use individual heat map grids to target the children in class. Times tables starters all this half term.	Multiplication and DivisionRecognise and use factor pairs and commutativity in mental calculations.One factor of 36 is 4, what is its pair?	Multiplication and Division Doubling and having numbers up to 4 digits.	Week cen taught this half les. Use NRICH e of application and cir knowledge.	ed to revisit.
Maths Unit	w of the four culations.	letry Review	ber Review.	ions Review	nd Measures and Review	nvestigations/Assessment 1 to apply skills they have l gh investigations and puzz too, this is a valuable sourc ent as the children apply the	nits that the children ne
Reasoning/ Problem Solving Opportunities	Revie cal	Geom	NunN	Fract	Statistics a	I Allow children term throu investigations assessme	Veek – Revise u
X tables	Prepare for MTC – use individual heat map grids to target the children in class. Times tables starters all this half term.	Prepare for MTC – use individual heat map grids to target the children in class. Times tables starters all this half term.	Prepare for MTC – use individual heat map grids to target the children in class. Times tables starters all this half term.	TTRS Counting Sticks	TTRS Counting Sticks	TTRS Counting Sticks	2 Day V

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