Autumn 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Basic Skills / Daily Mental Maths	Counting Count from 0 in multiples 50 and 100. Review counting in 5s and 10s. Discuss how multiples of 5, 10, 50 and 100 end in 0 or 5. Use counting sticks, hundred square and/or gattegno charts.	Partitioning Partition numbers up to 1000 in as many different ways as possible. 56 = 50 + 6, 25 + 25 + 6, 50 + 3 + 3 Progress to apply the above skill to 3 digit numbers.	Adding mentally Use number bonds to add mentally. $13+7=? 3+7=10 \text{ so } 10+10=20$ $23+7=3+7=10, \text{ so } 10+20=30$ Progress to apply the above skill to 3 digit numbers.	Subtracting mentally Use number line to add on to subtract. Adding up to nearest tens. 87-25 = 2587 Progress to apply the above skill to 3 digit numbers. Subtraction 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.		Counting Count from 0 in multiples of 4. Review counting in multiples of 2 and discuss the links – double 2 is 4. All multiples of 2 and 4 are even. Use counting sticks and hundred squares.	n investigations and puzzles. Use ssment as the children apply their
Maths Unit	Place Value Place value of numbers up to three digits. Read and write numbers up to 1000 in numerals and words.	Place Value Compare and order numbers to 1000. Find 10 or 100 more or less than a given number.	Add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds	Subtraction Subtract numbers mentally, including: a digit number and tens, a three-digit num		Identify right angles and recognise angles as a property of shape. Draw 2D shapes (use of dotted paper recommended).	Investigations Week have been taught this half term through investigations and puzzles. valuable source of application and assessment as the children apply knowledge.
Reasoning/ Problem Solving	Identify, represent and estimate numbers using different representations.	Solve number problems and practical problems involving these ideas.	Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. Estimate answer to a calculation and use the inverse operations to check answers.	Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. Estimate answer to a calculation and use the inverse operations to check answers.		Describe the properties of 2-D shapes using accurate language. Identify angles greater or lesser than a right angle.	Allow children to apply skills they have be
X tables	TTRS (x2,5,10 then 3,4,8) Counting sticks End of year target: recall multiplication and division facts for the 2, 5, 10, 3, 4 and 8 times tables.	TTRS (x2,5,10 then 3,4,8) Counting sticks	TTRS (x2,5,10 then 3,4,8) Counting sticks	TTRS (x2,5,10 then 3,4,8) Counting sticks	TTRS (x2,5,10 then 3,4,8) Counting sticks	TTRS (x2,5,10 then 3,4,8) Counting sticks	Allow childre NRICH invest

Number and Place Value Multiplication and Division	Addition and Subtraction	Fractions/Decimals	Geometry	Statistics	Measures
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Autumn 2	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).	X 10 mentally. 1000 100 10 1 1 1 1 1	Children need to understand that the answer decreases in division. The Dienes and the 1, 10, 100, 1000 show visually what happens as the digits move right.	Use the inverse to divide. 48 divided by 8 = ? 8 x 8 = 48, so 48 divided by 8 = 8.	Time Read the time (digital) – 12 hour and 24 hour clock (opportunity to use mental addition/subtraction taught in Autumn 1)	Investigations/Assessment Week Allow children to apply skills they have been taught this half term through investigations and puzzles. Use NRICH investigations too, this is a valuable source of application and assessment as the children apply their knowledge.	Identify horizontal and vertical lines and pairs of perpendicular and parallel lines. Flash various 2D shapes to the children and they answer on whiteboards or verbally.
Maths Unit	Measures (Perimeter) Measure the perimeter of simple 2D shapes.	Multiplication Write and calculate mathematical statements for multiplication using the multiplication tables that they know (3, 4 and 8), including for TO x O, using mental strategies	Division Write and calculate mathematical statemultiplication tables that they know (2 using mental strategies.		Fractions Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.	Investigations/As ren to apply skills they hav nd puzzles. Use NRICH in ation and assessment as th	Fractions Recognise and use fractions as numbers: unit fractions and non- unit fractions with small denominators.
Reasoning/ Problem Solving	Perimeter Inverse - If I know the perimeter of a square is 12cm. What is the length of each side of the square?	Solve problems including missing number problems involving multiplication, including positive interger scaling problems and correspondence problems which n objects are linked to m objects.	Solve problems including missing nur including positive interger scaling pro which n objects are linked to m object	blems and correspondence problems	Solve problems that involve all of the above.	Allow child investigations a of applic	Solve problems that involve all of the above.
X tables	TTRS (x2,5,10 then 3,4,8) Counting sticks End of year target: recall multiplication and division facts for the 2, 5, 10, 3, 4 and 8 times tables.	TTRS (x2,5,10 then 3,4,8) Counting sticks	TTRS (x2,5,10 then 3,4,8) Counting sticks	TTRS (x2,5,10 then 3,4,8) Counting sticks	TTRS (x2,5,10 then 3,4,8) Counting sticks	TTRS (x2,5,10 then 3,4,8) Counting sticks	TTRS (x2,5,10 then 3,4,8) 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

Spring 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Basic Skills / Daily Mental Maths	Counting Count from 0 in multiples of 8. Review counting in multiples of 2 and 4. Discuss the links – double 2 is 4, double 4 is 8. All multiples of 2, 4 and 8 are even. Use counting sticks and hundred squares.	Multiples of 5. Count up and down, back and forwards in multiples of 5. Identify that multiples of 5 end only in digits 0 and/or 5. Use counting sticks and hundred squares.	Compensate to subtract 35 – 18 = ? Add two to 18 to make 20 (friendly number) 35 - 20 = 15 Then add 2 back on 15+2=17 Progress to apply the above skill to 3 digit numbers.	Review 'Adjusting to Subtract' mentally (-9 and -11 to start with) from Autumn 1 and develop this skill to subtract by 12 and so on.	Recognising multiples of 4 Multiples of 4 are even so always end with the digits 0, 2, 4, 6 or 8. To find the answer to a x4 calculation, double the number twice. 8x4 = 8x2= 16, 16x2=32	Investigations Week Allow children to apply skills they have been taught this half term through investigations and puzzles. Use NRICH investigations too, this is a valuable source of application and assessment as the children apply their knowledge.	Review multiplying and dividing by 10 from Autumn 2 then move on to multiplying and dividing by 100.
Maths Unit	Measures (Length) Measure, compare lengths add and subtract lengths (cm, mm, m). Measure and compare lengths (cm, mm, m) in different contexts (including curved lines, measuring objects and children's bodies).	Addition Add numbers with up to three digits, using formal written methods of columnar addition.	Subtraction Subtract numbers with up to three digital columnar subtraction.	its, using formal written methods of	Measures (Money) Add and subtract amounts of money to give change, using both £ and p in practical contexts.	Investigations Week skills they have been taught this he H investigations too, this is a valute sessment as the children apply their	Statistics Interpret and present data using bar charts, pictograms and tables.
Reasoning/ Problem Solving	Solve worded problems applying all of the above.	Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. Estimate answer to a calculation and use the inverse operations to check answers.	Solve problems, including missing nuplace value, and more complex addition. Estimate answer to a calculation and answers.	on and subtraction.	Apply the above skills in worded problems. Become fluent in counting and recognising coins by adding and subtracting amounts, including mixed units, Read and say amounts of money confidently and use the symbols £ and p accurately, recording pounds and pence separately. Decimal recording of money is introduced formally in year 4.	Allow children to apply puzzles. Use NRIC as:	Solve one step and two step questions (for example, 'How many more? and 'How many fewer?') using information presented in scaled bar charts and pictograms and tables.

Number and Place Value Multiplicat	tion and Division Addition and Subtraction	Fractions/Decimals	Geometry	Statistics	Measures
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X tables	TTRS (x2,5,10 then 3,4,8) Counting sticks End of year target: recall multiplication and division facts for the 2, 5, 10, 3, 4 and 8 times tables.	TTRS (x2,5,10 then 3,4,8) Counting sticks		TTRS (x2,5,10 then 3,4,8) Counting sticks			
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Spring 2	Week 1	Week 2	Week 3	Week 4	Week 5
Basic Skills / Daily Mental Maths	Double numbers up to 1000. Double 15 10 + 5: double 10 is 20, double 5 is 10, so 10 +20 = 30. Progress to apply the above skill to 3 digit numbers.	Halving numbers/recall known facts Partition to halve. Half of $1000 = 500$ Half of $500 = 250$ Half of $300 = 150$ Half of $100 = 50$ Half of $50 = 25$	Dividing by 4. Encourage children to halve the number and halve again when dividing by 4.	Roman numerals (Leads on to Time in Summer 1). Recognise the value of I – XII	ssment Week ave been taught this half term e NRICH investigations too, this assessment as the children apply edge.
Maths Unit	Multiplication Revisit 'Write and calculate mathematical statements for multiplication using the multiplication tables that they know (3, 4 and 8), including for TO x O, using mental methods from Autumn 2 and progress to formal written methods.	Division Revisit 'Write and calculate mathematical statem that they know (3, 4 and 8), including for TO x O progress to formal written methods		Fractions Add and subtract fractions with the same denominator within one whole $(5/7 + 1/7 = 6/7)$.	Investigations/Asseto apply skills they hions and puzzles. Use of application and their knowl
Reasoning/ Problem Solving	Solve problems including missing number problems involving multiplication, including positive interger scaling problems and correspondence problems which n objects are linked to m objects.	Solve problems including missing number problems involving division, including positive interger scaling problems and correspondence problems which n objects are linked to m objects.		Continue to recognise fractions in the context of parts of a whole, numbers, measurements, a shape, and unit fractions as a division of a quantity. Practise adding and subtracting fractions with the same denominator through a variety of increasingly complex problems to improve fluency.	Allow children through investigat is a valuable sourc
X tables	TTRS (x2,5,10 then 3,4,8) Counting sticks End of year target: recall multiplication and division facts for the 2, 5, 10, 3, 4 and 8 times tables.	TTRS (x2,5,10 then 3,4,8) Counting sticks	TTRS (x2,5,10 then 3,4,8) Counting sticks	TTRS (x2,5,10 then 3,4,8) Counting sticks	TTRS (x2,5,10 then 3,4,8) 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
Basic Skills / Daily Mental Maths	Recognising multiples of 3 Any time we multiply by 3, the digits in the answer will always add up to a multiple of 3. For example: $8x3 = 24$, the 2 and 4 add up to 6, which is a multiple of 3.	Fractions Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10. Link 5/10 with ½, discuss why they represent the same value. Model and count with counting sticks.	Review multiplying and dividing by 10 from Autumn 2 then move on to multiplying and dividing by 100.	Multiples of 8 To multiply by 8, you can double the number 3 times: $8x2 = \frac{16}{2}$ $2x2 = 4$, $4x2 = 8$, $8x2 = \frac{16}{2}$	Time Know the number of seconds in a minute, and the number of days in each month, year and leap year.	his half term through this is a valuable source of their knowledge.
Maths Unit	2D Shape – Turns Recognise angles as a property of a shape or a description of a turn. Recognise that two right angles make a half turn, three make three quarters of a turn and 4 right angles make a full turn.	Fractions Recognise and show, using diagrams, equivalent fractions with small denominators.	Measures (Volume/capacity) Measure, compare add and subtract volume/capacity (l/ml).	Measure, compare add and subtract mass (kg/g)	Time Tell and write the time from an analogue clock, including using Roman numerals from I to XII.	Investigations Week y skills they have been taught this half term through Jse NRICH investigations too, this is a valuable source of sessment as the children apply their knowledge.
Reasoning/ Problem Solving Opportunities	Identify whether an angle is greater than or less than a right angle. Describe the properties of 2-D and 3-D shapes using accurate language, including lengths of lines and acute and obtuse for angles greater or lesser than a right angle.	Compare and order unit fractions, and fractions with the same denominators.	Use standard units of measurement with increasing accuracy, using their knowledge of the number system.	Use standard units of measurement with increasing accuracy, using their knowledge of the number system.	Compare durations of events (for example to calculate the time taken by particular events or tasks). Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight	Allow children to apply slinvestigations and puzzles. Use application and assess

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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	Week 7
Basic Skills / Daily Mental Maths	Geometry (3D shapes) Identify 2D shape faces on 3D shapes.	Review multiplying and dividing by 10 from Autumn 2 then move on to multiplying and dividing by 100.	Partition to multiply. $13 \times 4 =$ Partition 13 into 10 and 3. Multiply $10 \times 4 = 40$ Multiply 3 by $4 = 12$ So $40 + 12 = 52$	Partition do divide. 56 divided by $4 =$ Partition 56 into 40 and 16 40 divided by $4 = 10$ 16 divided by $4 = 4$ So $10 + 4 = 14$	Revise mental maths skills taught this year in various contexts.	Week In taught this half term ICH investigations too, sessment as the children	ed to revisit.
Maths Unit	Geometry (3D shapes) Make 3D shapes using modelling materials. Recognise 3D shapes in different orientations and describe them.	tions Review	try Review	ns Review	res Review	Investigations /Assessment Week Allow children to apply skills they have been taught this half term through investigations and puzzles. Use NRICH investigations too, this is a valuable source of application and assessment as the children apply their knowledge.	Revise units that the children need to
Reasoning/ Problem Solving Opportunities	Describe the properties of 2-D and 3-D shapes using accurate language, including lengths of lines and acute and obtuse for angles greater or lesser than a right angle.	4 Calculations	Geometry	Fractions	Measures	Allow children to through investigat this is a valuable so	Week-
X tables	TTRS (x2,5,10 then 3,4,8) Counting sticks End of year target: recall multiplication and division facts for the 2, 5, 10, 3, 4 and 8 times tables.	TTRS (x2,5,10 then 3,4,8) Counting sticks	TTRS (x2,5,10 then 3,4,8) Counting sticks	TTRS (x2,5,10 then 3,4,8) Counting sticks	TTRS (x2,5,10 then 3,4,8) Counting sticks	TTRS (x2,5,10 then 3,4,8) Counting sticks	2 Day
X tables		RS (x2,5,10 then 3,4,8) unting sticks	TTRS (x2,5,10 then 3,4,8) Counting sticks	TTRS (x2,5,10 then 3,4,8) Counting sticks	TTRS (x2,5,10 then 3,4,8) Counting sticks		

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