Year: 2 Term: Autumn 1

Week 1 First 3 days Practical week alongside assessments	Week 2 START LOOPY Place value	Week 3 Place value	Week 4 Calculation Number bonds	Week 5-7 Calculation <mark>Addition</mark>	Week 8 Assess and review
Assessment opportunities and try to evidence these, e.g. through WT assessment booklet Count in steps of 2, 5 and 10 from 0, and in tens from any number, forward and backward count in twos, fives and tens	Recognise the place value of each digit in a two-digit number (tens, ones) including 0 as a place holder partition a two-digit number into tens and ones to demonstrate an understanding of place value, though they may use structured resources to support them	Compare and order numbers from 0 up to 100; use <, > and = signs	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 Recall at least four of the six number bonds for 10 and reason about associated facts (e.g. $6 + 4 = 10$, therefore $4 + 6 = 10$ and $10 - 6 = 4$) Recall all number bonds to and within 10 and use these to reason with and calculate bonds to and within 20, Recognising other associated additive	solve problems with addition and subtraction: ousing concrete objects and pictorial representations, including those involving numbers, quantities and measures oapplying their increasing knowledge of mental and written methods	School produced assessment based on taught content. Complete assessment tracker. If 70% not secure,
from 0 and use this to solve problems Read and write numbers to at least 100 in numerals and in words read and write numbers in numerals up to 100	Identify, represent and estimate numbers using different representations, including the number line		relationships (e.g. If $7 + 3 = 10$, then $17 + 3 = 20$; if $7 - 3 = 4$, then $17 - 3 = 14$; leading to if $14 + 3 = 17$, then $3 + 14 = 17$, $17 - 14 = 3$ and $17 - 3 = 14$) NB- aim to evidence every single part of this objective as per the examples in brackets. Will also be returned to later in the year.	 add and subtract numbers using concrete objects, pictorial representations, and mentally, including: adding three one-digit numbers a two-digit number and ones a two-digit number and tens 	then re-teach that element.
		Ready to Progress C	riteria		
	2NPV–1 Recognise the place value of each digit in two-digit numbers, and compose and decompose two-digit numbers using standard and non-standard partitioning.	2NPV–2 Reason about the location of any twodigit number in the linear number system, including identifying the previous and next multiple of 10	2NF-1 Secure fluency in addition and subtraction facts within 10, through continued practice.	2AS-1 Add and subtract across 10. 2AS-3 Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract only ones or only tens to/from a twodigit number.	

Mastering Number overview: Autumn 1

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
		Training commences for Year Leaders	Year Leaders to train Teachers	Week 1 Composition Focus on the composition of 6, 7,8 and 9 as '5 and abit'	Week 2 Comparison Compare numbers within 10 using language of comparison when comparing sets of objects and numbers Use the inequality and equals symbolsin expressions and equations	Week 3 Composition Focus on odd/ even parts when even numbers are composed of 2 parts, including when 2 parts are equal (doubles)	Week 4 Composition Focus on the composition of 6 Identify missing addends and complete missing symbols expressions and equations using theequals or inequality symbol

Year: 2 Term: Autumn 2

Week 1-3 Calculation	Week 4-6 Calculation	Week 7 Assess and
<mark>Subtraction</mark>	Multiplication and division	review
Add and subtract numbers using concrete objects, pictorial representations, and mentally, including:	recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers	School produced
 a two-digit number and ones a two-digit number and tens 	recall multiplication and division facts for 2, 5 and 10 and use them to solve simple problems, demonstrating an understanding of commutativity as necessary recall and use multiplication and division facts for 2, 5 and 10 and make deductions	assessment based on taught
Add and subtract two-digit numbers and ones, and two-digit numbers and tens, where no regrouping is required, explaining their method verbally, in pictures or using apparatus (e.g. $23 + 5$; $46 + 20$; $16 - 5$; $88 - 30$)	outside known multiplication facts	content.
Add and subtract any 2 two-digit numbers using an efficient strategy, explaining their method verbally, in pictures or using apparatus (e.g. 48 + 35; 72 – 17)	calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals (=) signs	number bonds to 20 assessment.
Use reasoning about numbers and relationships to solve more complex problems and explain their thinking (e.g. $29 + 17 = 15 + 4 + 2$; 'together Jack	show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot	Complete assessment tracker. If
and Sam have £14. Jack has £2 more than Sam. How much money does Sam have? etc.)	solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts	70% not secure, then re-
NB- include direct teaching of finding the difference as subtraction	solve unfamiliar word problems that involve more than one step (e.g. 'which has the most biscuits, 4 packets of biscuits with 5 in each packet or 3 packets of biscuits with 10 in each packet?')	teach that element.
	Notes and guidance (non-statutory) They connect the 10 multiplication table to place value, and the 5 multiplication table to the divisions on the clock face.	
	Ready to Progress Criteria	
2AS-1 Add and subtract across 10. 2AS-2 Recognise the subtraction structure of 'difference' and answer questions of the form, "How many more?"	2MD–1 Recognise repeated addition contexts, representing them with multiplication equations and calculating the product, within the 2, 5 and 10 multiplication tables.	
2AS—3 Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract only ones or only tens to/from a twodigit number.		

Mastering Number overview: Autumn 2

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Week 5 composition Focus on the composition of 8 Use 2-by-4 grid and the rekenrek to findall the ways that 8 can be composed Apply to expressions and equations	Week 6 composition Focus on the composition of 10 Use 2-by-5 grid (10-frame) and the rekenrek to find all the ways that 10 canbe composed Apply to expressions and equations	Week 7 composition Focus on the composition of odd numbers including being made of 2s and 1 more, or 1 odd part and 1 evenpart	Week 8 composition Focus on the composition of 7 Use the Hungarian number pattern and the rekenrek to find all the ways that 7 can be composed Apply knowledge to expressions and equations	Week 9 composition Focus on the composition of 9 Focus on 3-by-3 grid and the rekenrek to find all the ways that9 can be composed Apply knowledge to expressions and equations	Week 10 composition Focus on the composition of the numbers 11 to 19 as '10 and a bit' Apply to missing addend equations	Week 11 counting, ordinality and cardinality Compare numbers within 20 Use proportional reasoning to identifythe position of numbers within 20 inthe linear number system, using midpoints of 5, 10 and 15

Year: 2 Term: Spring 1

Week 1-3 Calculation Multiplication and division and inverse operations	Week 4-5 Calculation Addition	Week 6 Assess and review
recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers recall multiplication and division facts for 2, 5 and 10 and use them to solve simple problems, demonstrating an understanding of commutativity as necessary recall and use multiplication and division facts for 2, 5 and 10 and make deductions outside known multiplication facts calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot	NB- revisiting of previous addition objectives (2 digit and 1's, 2 digit and tens) should be happening through fluency practise New Learning: two two-digit numbers add and subtract two-digit numbers and ones, and two-digit numbers and tens, where no regrouping is required, explaining their method verbally, in pictures or using apparatus (e.g. 23 + 5; 46 + 20; 16 - 5; 88 - 30) add and subtract any 2 two-digit numbers using an efficient strategy, explaining their method verbally, in pictures or using apparatus (e.g. 48 + 35; 72 - 17) use reasoning about numbers and relationships to solve more complex problems and explain their thinking (e.g. 29 + 17 = 15 + 4 + 12; 'together Jack and Sam have £14. Jack has £2 more than Sam. How much money does Sam have? etc.)	School produced assessment based on taught content. Complete assessment tracker. If 70% not secure, then reteach that element.
solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts solve unfamiliar word problems that involve more than one step (e.g. 'which has the most biscuits, 4 packets of biscuits with 5 in each packet or 3 packets of biscuits with 10 in each packet?') Notes and guidance (non-statutory) relate to grouping and sharing discrete and continuous quantities, to arrays and to repeated addition. They begin to relate these to fractions and	NB- include use of number lines as per progression guides Include some very simple money problems for context- will be revisited recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value know the value of different coins Notes and guidance (non-statutory)	
measures 2MD–2 Relate grouping problems where the number of groups is unknown to multiplication equations with a missing factor, and to division equations (quotitive division).	They read and say amounts of money confidently and use the symbols £ and p accurately, recording pounds and pence separately. 2AS—4 Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract any 2 twodigit numbers. 2NPV—1 Recognise the place value of each digit in two-digit numbers, and compose and decompose two-digit numbers using standard and non-standard partitioning.	

Mastering Number overview: Spring 1

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Week 12 Number facts and arithmetic Focus on doubling numbers to 10, using the '5 and a bit' structure to double 6, 7, 8 and 9	Week 13 Composition Focus on the composition of 20 Use known facts within 10to find missing parts of 20when the known part is greater than 10	Week 14 Number facts and arithmetic Apply knowledge of facts within 10 to addition and subtraction within 20 WITHIN the 10s boundary	Week 15 Number facts and arithmetic Use knowledge of doubles to calculate near doubles See that near doubles are adjacent numbers See that the sum in a near double is odd	Week 16 Number facts and arithmetic Develop understanding of near doubles Identify different strategies for near doubles, doublingthe smaller addend and adding 1 or the larger addend and subtracting 1	Review week- use AfL from half term to revisit any areas pupils have been less secure with (may differ class by class)

Year: 2 Term: Spring 2

Week 1-2	Week 3-4	Week 5 and part of 6	Week 6			
Place Value	Calculation	Fractions	Assess and			
inc money	Subtraction	NB- begin to make links to turns	review			
Use place value and number facts to solve problems	NB- revisiting of previous subtraction objectives (2	recognise, find, name and write fractions	School			
	digit and 1's, 2 digit and tens) should be happening	1/3 ¼ 2/4 and ¾ a length, shape, set of objects	produced			
Partition numbers in different ways (for example, 23= 20 +	through fluency practise	or quantity	assessment			
3 and 23 = 10 + 13)		identify 1/4, 1/3, 1/2, 2/4, 3/4, of a number or	based on			
partition any two-digit number into different combinations	New Learning:	shape, and know that all parts must be equal	taught content.			
of tens and ones, explaining their thinking verbally, in	o two two-digit numbers	parts of the whole				
pictures or using apparatus			Include			
	Add and subtract two-digit numbers and ones, and	write simple fractions for example	number bonds			
	two-digit numbers and tens, where no regrouping is	$\frac{1}{2}$ of 6 = 3	to 20			
find different combinations of coins that equal the same	required, explaining their method verbally, in pictures	2	assessment.			
amounts of money	or using apparatus (e.g. 23 + 5; 46 + 20; 16 – 5; 88 –	and recognise the equivalence of				
know the value of different coins	30)	<u>2</u> and <u>1</u>	Complete			
use different coins to make the same amount	Add and askers to an 2 to a digit as askers as	4 2	assessment			
	Add and subtract any 2 two-digit numbers using an		tracker. If 70%			
	efficient strategy, explaining their method verbally, in	Notes and midenes (non-statutem)	not secure, then re-teach			
	pictures or using apparatus (e.g. 48 + 35; 72 – 17)	Notes and guidance (non-statutory)				
	Use reasoning about numbers and relationships to	They connect unit fractions to equal sharing and grouping, to numbers when they can be	that element.			
	solve more complex problems and explain their	calculated, and to measures,				
	thinking (e.g. $29 + 17 = 15 + 4 + 2$); 'together Jack and	calculated, and to measures,				
	Sam have £14. Jack has £2 more than Sam. How much					
	money does Sam have? etc.)					
	money does sam have: etc.)					
	NB- include use of number lines as per progression					
	guides					
	00000					
	Inlcude some money problems for context					
Ready to Progress Criteria						
	I					

Mastering Number overview: Spring 2

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Week 17 Number facts and arithmetic	Week 18 Number facts and arithmetic	Week 19 Number facts and arithmetic	Week 20 Number facts and arithmetic	Week 21 Number facts and arithmetic	Review week- use AfL from half term to revisit any areas pupils have been less secure
Add 3 numbers using known facts - identifying bonds of 10 and knowledge of the composition of 11 to 19 as'10 and a bit'	Add 2 numbers by 'bridging through 10'	Consolidate understanding of adding 2 numbers by 'bridging through 10' Solve missing addend problems	Subtract by 'bridgingthrough 10'	Consolidate understanding of subtracting by 'bridging through 10'	with (may differ class by class)

Week 1 few days	Week 1-2	Week 3-4	Week 5	Assess and	
Statistics	Calculation	Time	Measure- rotate around mass, capacity,	review	
Include scale of 2.5.40 and	Inverse + biggest number first	Geometry-position/turns	length/height and temperature		
Include scale of 2,5,10 and opportunities to apply measures,	inc	NB- include application of 4 operations	NB- focus on scale reading and application of all 4 operations		
addition and subtraction,e.g.	NB- include some opportunities to	NB- include application of 4 operations	all 4 Operations		
finding the difference	apply statistics				
Interpret and construct simple	Show that addition of two numbers	Tell and write the time to five minutes,	choose and use appropriate standard units to	School	
pictograms, tally charts, block	can be done in any order	including quarter past/to the hour and	estimate and measure length/height in any	produced .	
diagrams and simple tables	(commutative) and subtraction of one	draw the hands on a clock face to show	direction (m/cm); mass (kg/g); temperature	assessment	
Ask and answer simple questions	number from another cannot	these times	(°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales,	based on taught	
by counting the number of		Read the time on the clock to the	thermometers and measuring vessels	content.	
objects in each category and	Recognise and use the inverse	nearest 15 minutes.	thermometers and measuring vessers	content.	
sorting the categories by quantity	relationship between addition and	mediese 15 minutes.	read scales* in divisions of ones, twos, fives	Inlcude	
derening the eategeries by quantity	subtraction and use this to check	Read the time on the clock to the	and tens	number bonds	
Ask and answer questions about	calculations and solve missing number	nearest 5 minutes.	read scales* where not all numbers on the	to 20	
totalling and comparing	problems.		scale are given and estimate points in	assessment.	
categorical data.		Know the number of minutes in an hour	between		
	Use reasoning about numbers and	and the number of hours in a day.		Complete	
	relationships to solve more complex			assessment	
Notes and guidance (non-	problems and explain their thinking		compare and order lengths, mass,	tracker. If 70%	
statutory)	(e.g. 29 + 17 = 15 + 4 + 2; 'together	Use mathematical vocabulary to	volume/capacity and record the results using	not secure,	
Pupils record, interpret, collate,	Jack and Sam have £14. Jack has £2	describe position, direction and	>, < and =	then re-teach	
organise and compare	more than Sam. How much money does Sam have? etc.)	movement, including movement in a		that element.	
information (for example, using many-to-one correspondence in	does sam haver etc.)	straight line and distinguishing between rotation as a turn and in terms of right	Notes and guidance (non-statutory)		
pictograms with simple ratios 2, 5,		angles for quarter, half and three-	Comparing measures includes simple		
10).		quarter turns (clockwise and anti-	multiples such as 'half as high'; 'twice as		
-57.		clockwise).	wide'.		
	Ready to Progress Criteria				
	2AS–2 Recognise the subtraction				
	structure of 'difference' and answer				
	questions of the form, "How many				
	more?"				

Mastering Number overview: Summer 1

Week 1	Week 2	Week 3	Week 4	Week 5
Week 22 counting, ordinality and cardinality Connect the order of multiples	Week 23 number facts and arithmetic Connect missing addendproblems	Week 24 number facts and arithmetic Subtract across the 10 boundary, by	Week 25 number facts and arithmetic Practise subtracting within 20,	Week 26 composition Focus on the composition of 20
of 10 to the order of numbers within10 Use proportional reasoning to identify the position of numbers within 100 in the linear number	to subtraction problems	subtract across the 10 boundary, by subtractingFROM 10 rather than bridging THROUGH 10	selecting from arange of strategies See that all subtractions can be solved by thinkingof how a number is composed and identifyingthe	Use known facts within 10to find missing part of 20 when the known part is less than 10
system			missing part	

Year: 2 Term: Summer 2

Week 1-2	Week 3	Week 4	Week 5	Week 6	Week 7
Geometry- 2D and 3D shape					
identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces name some common 2-D and 3-D shapes from a group of shapes or from pictures of the shapes and describe some of their properties (e.g. triangles, rectangles, squares, circles, cuboids, cubes, pyramids and spheres). describe similarities and differences of 2-D and 3-D shapes, using their properties (e.g. that two different	Revisit any areas of weakness ahead of tests	SATs Test week	Revisit week based on all 4 operations and gap analysis of papers	Fiver challenge- inclusive of all 4 operations applied through context of	Revisit week based on gap analysis
2-D shapes both have only one line of symmetry; that a cube and a cuboid have the same number of edges, faces and vertices, but different dimensions). identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]				money	
compare and sort common 2-D and 3-D shapes and everyday objects.					
Notes and guidance (non-statutory) Pupils handle and name a wide variety of common 2-D and 3-D shapes including: quadrilaterals and polygons, and cuboids, prisms and cones, and identify the properties of each shape (for example, number of sides, number of faces).					
Pupils read and write names for shapes that are appropriate for their word reading and spelling.					
Pupils draw lines and shapes using a straight edge.					
Ready to Progress Criteria	9				
2G–1 Use precise language to describe the properties of 2D and 3D shapes, and compare shapes by reasoning about similarities and differences in properties.					

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6-7
Week 27 comparison Use knowledge of composition to reason about expressions andequations and use the equals and inequality symbols in expressionsand equations	Week 28 number facts and arithmetic Consolidate doubles and near doubles Introduce strategy of adding two adjacent oddnumbers or two adjacenteven numbers into a double	Week 29 number facts and arithmetic Consolidate understanding and develop fluency in transforming addition calculations involving two adjacent odd or two adjacent even numbers into a double	Week 30 number facts and arithmetic Develop fluency in bonds within 10 and apply this to calculations within and across the 10-boundary using a range of optional activities	Week 31 number facts and arithmetic A range of 6 sessions providing optional activities to provide practice and opportunities for assessment	Review week- use AfL from half term to revisit any areas pupils have been less secure with (may differ class by class)

Implications for school leaders

- Be aware of and agree the criteria for assessing whether children are ARE for end of KS1. Recommend using framework or RtP for y2
- Curriculum changes for y2? Difference between what to 'light touch cover' (including fractions) as part of statutory curriculum, what to give less focus on and ensure is only covered within the number fact knowledge for KS1 (measure, time and statistics) and what to prioritise for in-depth, secure understanding (RtP criteria – within the context of money, measure and statistics)
- How do assessment materials match to updated guidance? If using Pixel, WR, PUMA – are these reflective of ARE from RtP? Do assessments need adapting?
- Implications for internal maths data and tracking across whole school. The RtP criteria and prioritisation materials have been produced for y1 up to y6. This should be considered across whole school not specific to y2.