

## Abacus Year 2 Draft Teaching Overview



Autumn 1				
Week	Strands	Weekly summary		
1	Number and place-value ( <b>NPV</b> )	Estimate and count a number of objects up to 100; locate numbers on 0–100 beaded lines and 1–100 squares; compare pairs of numbers and find a number in between; order three numbers; order 2-digit numbers	Lesson 1 Estimate and count a number of objects up to 100 (S: Chant numbers in 1s on and back to 100)	<ul style="list-style-type: none"> <li>estimate and count a number of objects up to 100.</li> </ul>
			Lesson 2 Locate numbers on 0–100 beaded lines and 1–100 squares (S: Count in 10s from 10 to 100)	<ul style="list-style-type: none"> <li>locate numbers on 0–100 beaded lines and 1–100 squares.</li> </ul>
			Lesson 3 Compare pairs of numbers and find a number in between (S: Count to 100 in 1s and 10s)	<ul style="list-style-type: none"> <li>compare two numbers</li> <li>find a number in between two numbers.</li> </ul>
			Lesson 4 Find a number in between and order three numbers (S: Count on/back in 1s from any number)	<ul style="list-style-type: none"> <li>compare two numbers</li> <li>find a number in between two 2-digit numbers</li> <li>order three 2-digit numbers.</li> </ul>
			Lesson 5 Order 2-digit numbers (S: Chant on and back in 10s from any single-digit number)	<ul style="list-style-type: none"> <li>order 2-digit numbers.</li> <li>begin to organise their work systematically.</li> </ul>
2	Mental addition and subtraction ( <b>MAS</b> )	Revise number bonds to 6, 7, 8, 9 and 10; know number bonds to 10 and begin to learn related subtraction facts; know multiple of 10 number bonds to 100; learn bonds to 20; rehearse number bonds to 10 and 20 using stories	Lesson 6 Revise number bonds to 6, 7, 8, 9 and 10 (S: Counting in 1s)	<ul style="list-style-type: none"> <li>say all the bonds to 10 and know them by heart</li> <li>say all the bonds to 6, 7, 8, 9 and know them by heart</li> <li>understand that addition can be done in any order.</li> </ul>
			Lesson 7 Know number bonds to 10 and begin to learn related subtraction facts (S: Recall bonds to 10)	<ul style="list-style-type: none"> <li>say all the bonds to 10 and know them by heart</li> <li>use known bonds to 10 to solve related subtractions.</li> </ul>
			Lesson 8 Know multiple of 10 number bonds to 100 (S: Recall bonds to 5 and 6)	<ul style="list-style-type: none"> <li>recognise and work out multiple of 10 bonds to 100</li> <li>recognise there is a relationship between bonds to 10 and multiple of 10 bonds to 100.</li> </ul>
			Lesson 9 Learn bonds to 20 (S: Rehearse multiple of 10 bonds to 100)	<ul style="list-style-type: none"> <li>learn bonds to 20</li> <li>understand addition can be done in any order</li> <li>use knowledge that teen numbers are a 10 and some 1s to help with bonds to 20.</li> </ul>

			Lesson 10 Rehearse number bonds to 10 and 20 using stories (S: Rehearse number bonds to 20)	<ul style="list-style-type: none"> <li>relate known number bonds to context-based problems</li> <li>begin to write 'word problems'.</li> </ul>
3	Mental addition and subtraction ( <b>MAS</b> ); Mental multiplication and division ( <b>MMD</b> )	Double numbers to double 15; use patterns in number bonds; use number bonds to solve more difficult additions, subtractions and to solve additions bridging 10	Lesson 11 Double numbers to double 15 (S: Recall doubles of numbers 1–10)	<ul style="list-style-type: none"> <li>double numbers 1–15</li> <li>begin to double numbers greater than 10 by doubling 10 then the 1s</li> <li>say doubles to double 10 and know them by heart.</li> </ul>
			Lesson 12 Use number bonds to solve more difficult additions (S: Rehearse number bonds to 6 and 7)	<ul style="list-style-type: none"> <li>say the number bonds to 6, 7, 8, 9 and 10 and know them by heart</li> <li>use number bonds to solve related additions.</li> </ul>
			Lesson 13 Use patterns in number bonds (S: Rehearse number bonds to 8 and 9)	<ul style="list-style-type: none"> <li>say the number bonds to 6, 7, 8, 9 and 10 and know them by heart</li> <li>use number bonds to solve related additions</li> <li>ask and answer questions looking for number patterns</li> <li>begin to think and record systematically.</li> </ul>
			Lesson 14 Use number bonds to subtract (S: Solve subtractions using known number facts)	<ul style="list-style-type: none"> <li>use known number bonds (addition) to solve subtraction</li> <li>begin to understand the relationship between addition and subtraction.</li> </ul>
			Lesson 15 Use number bonds to solve additions bridging 10 e.g. $7 + 3 =$ , so $7 + 4 =$ (S: Rehearse bonds to 20)	<ul style="list-style-type: none"> <li>use number bonds to 10 to solve harder additions</li> <li>begin to bridge 10.</li> </ul>
4	Geometry: properties of shapes ( <b>GPS</b> ); Statistics ( <b>STA</b> )	Sort 2D shapes according to symmetry properties using Venn diagrams; identify right angles and sort shapes using Venn diagrams; recognise squares, rectangles, circles, triangles, ovals and hexagons and discover which tessellate; sort shapes and objects using a two-way Carroll	Lesson 16 Sort 2D shapes according to symmetry properties using Venn diagrams (S: Practise telling the time to o'clock (analogue))	<ul style="list-style-type: none"> <li>recognise basic line symmetry</li> <li>sort shapes using Venn diagrams</li> <li>understand the overlap in a Venn diagram.</li> </ul>
			Lesson 17 Identify right angles and sort shapes using Venn diagrams (S: Pairs with a total of 10)	<ul style="list-style-type: none"> <li>identify right angles</li> <li>sort shapes using Venn diagrams.</li> </ul>
			Lesson 18 Recognise squares, rectangles, circles, triangles, ovals and hexagons, discovering which tessellate (S: Pairs with a total of 20)	<ul style="list-style-type: none"> <li>recognise squares, rectangles, circles, triangles, ovals, hexagons and quadrilaterals</li> <li>tessellate shapes.</li> </ul>
			Lesson 19 Sort shapes using a two-way Carroll diagram (S: Names and properties of common 2D shapes)	<ul style="list-style-type: none"> <li>sort shapes according to their properties using a two-way Carroll diagram.</li> </ul>

		diagram	Lesson 20 Sort objects using a two-way Carroll diagram (S: Recognise squares, rectangles, circles, ovals, triangles, hexagons and quadrilaterals)	<ul style="list-style-type: none"><li>sort objects using a two-way Carroll diagram.</li></ul>
5	Number and place-value ( <b>NPV</b> ); Mental addition and subtraction ( <b>MAS</b> )	Mark numbers on a landmarked line; compare and order numbers, using < and > signs; find 1 and 10 more or less using the 100-square; find 10 more and 10 less than any 2-digit number	Lesson 21 Begin to mark numbers on a landmarked line (S: Count to 100)	<ul style="list-style-type: none"><li>begin to locate numbers on a 0–100 landmarked line.</li></ul>
			Lesson 22 Compare and order numbers, using < and > signs (S: Order numbers)	<ul style="list-style-type: none"><li>compare 2-digit numbers using the &lt; and &gt; signs.</li></ul>
			Lesson 23 Compare numbers using < and > signs (S: Count on in 1s to 100 and back )	<ul style="list-style-type: none"><li>compare 2-digit numbers using the &lt; and &gt; signs.</li></ul>
			Lesson 24 Find 1 and 10 more or less using the 100-square (S: Count on and back in 10s)	<ul style="list-style-type: none"><li>find 1 and 10 more/less than 2-digit numbers using a 100-square.</li></ul>
			Lesson 25 Find 10 more and 10 less than any 2-digit number (S: Counting on and back in 10s)	<ul style="list-style-type: none"><li>add and subtract 10, labelling jumps on a beaded line.</li></ul>
Autumn 2				
Week	Strands	Weekly summary		
6	Number and place-value ( <b>NPV</b> ); Mental addition and subtraction ( <b>MAS</b> ); Measurement ( <b>MEA</b> )	Know and use ordinal numbers; understand that 2-digit numbers are made from some 10s and some 1s; understand place-value using 10p and 1p coins; find 10p more and 10p less; find 10 more and 10 less	Lesson 26 Know and use ordinal numbers (S: Count in 1s to 100 and back again)	<ul style="list-style-type: none"><li>use ordinal numbers to describe position in a sequence.</li></ul>
			Lesson 27 Understand that 2-digit numbers are made from some 10s and some 1s (S: Count on and back in 1s from any 2-digit number)	<ul style="list-style-type: none"><li>partition 2-digit numbers into 10s and 1s and recombine</li><li>write additions and subtractions using knowledge of place-value.</li></ul>
			Lesson 28 Understand place-value using 10p and 1p coins (S:1 more, 1 less)	<ul style="list-style-type: none"><li>recognise the value of each digit in a 2-digit number</li><li>understand that a 10p coin has the same value as ten 1p coins.</li></ul>
			Lesson 29 Find 10p more and 10p less (S: Count on and back in 10s)	<ul style="list-style-type: none"><li>find 10 more and 10 less than 2-digit numbers.</li></ul>
			Lesson 30 Find 10 more and 10 less (S: Estimate and count in 10s)	<ul style="list-style-type: none"><li>find 10 more and 10 less than 2-digit numbers.</li></ul>
7	Number and place-value ( <b>NPV</b> ); Mental addition and subtraction ( <b>MAS</b> )	Add and subtract 10, 20 and 30 to any 2-digit number; add and subtract 11, 21, 12 and 22 to any 2-digit number; solve addition and subtractions by counting on and back in 10s then in	Lesson 31 Add 10, 20 and 30 to any 2-digit number (S: Counting on and back in 10s)	<ul style="list-style-type: none"><li>add 10, 20 or 30 to any 2-digit number (not crossing 100)</li><li>count on and back in 10s from any number (&lt;100).</li></ul>
			Lesson 32 Subtract 10, 20, 30 from any 2-digit number (>30) (S: Practise doubles to double 10)	<ul style="list-style-type: none"><li>subtract 10, 20 or 30 from any 2 digit number (positive answer).</li></ul>
			Lesson 33 Add 11, 21, 12 and 22 to any 2-digit number (S: Revise multiple of 10 bonds to 100)	<ul style="list-style-type: none"><li>add 11, 12, 21, 22, by adding 10s then counting on 1 or 2</li><li>re-order an addition so the largest number is first.</li></ul>

		1s	Lesson 34 Subtract 11, 12, 21, 22, from any number by counting back in 10s and adjusting (S: Ordinal numbers)	<ul style="list-style-type: none"> <li>subtract 'near' tens (11, 12, 21, 22) by counting back 10 and adjusting.</li> </ul>
			Lesson 35 Solve addition and subtractions by counting on and back in 10s then in 1s (S: Rehearse days of the week)	<ul style="list-style-type: none"> <li>add and subtract near 10s (11, 12, 21, 22) from 2-digit numbers</li> <li>know when to count on or count back to add or subtract.</li> </ul>
8	Geometry: position and direction <b>(GPD)</b> ; Measurement <b>(MEA)</b>	Understand and use terms and vocabulary associated with position, direction and movement; measure lengths using uniform units; begin to measure in centimetres and metres	Lesson 36 Understand and use terms of position, direction and movement (S: Tell the time to o'clock and half past)	<ul style="list-style-type: none"> <li>use language of position, direction and movement</li> <li>understand vocabulary: in, on, under, over, behind, above, in front of, next to, between, left, right, forward, backward, top, middle, bottom, inside, outside, turn, quarter turn, half turn.</li> </ul>
			Lesson 37 Understand and use vocabulary associated with position, direction and movement (S: Understand the clock face, know clockwise and anticlockwise directions)	<ul style="list-style-type: none"> <li>use language of position, direction and movement</li> <li>understand vocabulary: in, on, under, over, behind, above, in front of, next to, between, left, right, forward, backward, top, middle, bottom, inside, outside, turn, quarter turn, half turn.</li> </ul>
			Lesson 38 Measure lengths using uniform units (S: Compare numbers to 50)	<ul style="list-style-type: none"> <li>understand the need for a standard unit</li> <li>use a uniform unit to measure lengths.</li> </ul>
			Lesson 39 Begin to measure in centimetres (S: Compare numbers to 50)	<ul style="list-style-type: none"> <li>begin to estimate and measure in centimetres.</li> </ul>
			Lesson 40 Begin to measure in metres (S: Compare numbers to 100)	<ul style="list-style-type: none"> <li>begin to estimate and measure in metres</li> <li>begin to know whether to measure in cm or metres.</li> </ul>
9	Mental addition and subtraction <b>(MAS)</b> ; Mental multiplication and division <b>(MMD)</b>	Add and subtract 2-digit numbers; add near doubles to double 15; add several small numbers spotting near doubles or pairs to 10	Lesson 41 Add 2-digit numbers without crossing 10s/100s (S: O'clock, half past and quarter past)	<ul style="list-style-type: none"> <li>begin to add 2-digit numbers counting on in 10s and 1s.</li> </ul>
			Lesson 42 Subtract two 2-digit numbers by counting back in 10s and 1s where both digits in subtracted number are smaller (S: Revise pairs to 20)	<ul style="list-style-type: none"> <li>begin to subtract 2-digit numbers counting back in 10s and 1s.</li> </ul>
			Lesson 43 Add and subtract two 2-digit numbers by counting on or back in 10s and 1s (S: Revise doubles to double 10)	<ul style="list-style-type: none"> <li>add and subtract two 2-digit numbers by counting on and back in 10s and 1s.</li> </ul>
			Lesson 44 Add near doubles to double 15 (S: Revise halves of even numbers to 20)	<ul style="list-style-type: none"> <li>say the doubles up to double 20 and know them by heart</li> <li>add near doubles by doubling then adding or subtracting 1.</li> </ul>

			Lesson 45 Add several small numbers spotting near doubles or pairs to 10, etc (S: Revise teen numbers (additions of 10 and 1s)	<ul style="list-style-type: none"><li>• use known number facts to add three 1-digit numbers</li><li>• say the bonds to 10 and doubles to 10 + 10 and know them by heart.</li></ul>
10	Mental multiplication and division ( <b>MMD</b> ); Measurement ( <b>MEA</b> )	Count in 2s, 5s and 10s from zero; count in multiples of 2p, 5p and 10p; number sequences of 2s, 5s and 10s; find the totals of coins and ways to make an amount; use coins to make given amounts of money	Lesson 46 Count in 2s, 5s and 10s from 0 (S: Find 2-digit numbers on 0-100 number line)	<ul style="list-style-type: none"><li>• draw jumps of 2, 5 and 10</li><li>• relate counting in 2s, 5s and 10s to adding 2, 5 and 10.</li></ul>
			Lesson 47 Count in multiples of 2p, 5p and 10p (S: Count in 5s)	<ul style="list-style-type: none"><li>• count in 2s, 5s and 10s.</li></ul>
			Lesson 48 Number sequences of 2s, 5s and 10 (S: Count in 2s)	<ul style="list-style-type: none"><li>• complete patterns counting in 2s, 5s and 10s</li><li>• recognise multiples of 2, 5 and 10.</li></ul>
			Lesson 49 Find the total of three coins to £1 and find ways to pay an amount up to 30p (S: Coin value)	<ul style="list-style-type: none"><li>• work out the coins that are needed to pay an amount up to 30p.</li></ul>
			Lesson 50 Use coins to make given amounts of money up to £1 (S: Find ways to pay 10p)	<ul style="list-style-type: none"><li>• work out different ways of making 25p</li><li>• work out which coins are needed to pay an amount up to £1.</li></ul>
Spring 1				
Week	Strands	Weekly summary		
11	Number and place-value ( <b>NPV</b> ); Mental addition and subtraction ( <b>MAS</b> )	Place-value and ordering 2-digit numbers; place-value additions and subtractions; add and begin to subtract 9, 10, and 11	Lesson 51 Understand the place-value of 2-digit numbers and order 2-digit numbers (S: Count in 2s)	<ul style="list-style-type: none"><li>• say what each digit in a 2-digit number represents</li><li>• say the number before or after any 2-digit number.</li></ul>
			Lesson 52 Write place-value additions and subtractions (S: Say the number before, after and between 2-digit numbers)	<ul style="list-style-type: none"><li>• partition 2-digit numbers into tens and ones and recombine</li><li>• write place-value additions and subtractions.</li></ul>
			Lesson 53 Add 10 and 11 (S: Count on and back in 10s)	<ul style="list-style-type: none"><li>• add 10 and 11 to 2-digit numbers.</li></ul>
			Lesson 54 Add 9 and 10 (S: Find 10 more)	<ul style="list-style-type: none"><li>• add 9, 10 and 11 to 2-digit numbers.</li></ul>
			Lesson 55 Begin to subtract 9, 10 and 11 (S: Count on and back in 1s and 10s)	<ul style="list-style-type: none"><li>• add and subtract 9, 10 and 11 to and from 2-digit numbers.</li></ul>
12	Mental addition and subtraction ( <b>MAS</b> )	Revise number bonds to 10; begin to bridge 10; subtract from 10 and 20; use number facts to find the complement to ten; find a difference between two	Lesson 56 Revise number bonds to 10; Begin to bridge ten to add 1-digit numbers to 1- and 2-digit numbers (S: Bonds to ten)	<ul style="list-style-type: none"><li>• use bonds to ten to add single digit numbers bridging ten.</li></ul>
			Lesson 57 Revise number facts; Subtract from 10 and 20 (S: Revise number bonds to 20)	<ul style="list-style-type: none"><li>• use their bonds to 10 to solve subtractions</li><li>• use their bonds to 20 to solve subtractions.</li></ul>
			Lesson 58 Use number facts to find the complement to ten (S: Revise number bonds to 20)	<ul style="list-style-type: none"><li>• add to the next ten using bonds to ten</li><li>• complete addition sentences showing complements to multiples of ten</li></ul>

		numbers by counting on	Lesson 59 Use number facts to find the complement to ten (S: Revise number bonds to 10)	<ul style="list-style-type: none"> <li>use bonds to ten to solve complement to multiples of ten additions.</li> </ul>
			Lesson 60 Find a difference between two numbers by counting on (S: Revise complements to multiples of 10)	<ul style="list-style-type: none"> <li>work out a small difference (1-digit number) between two numbers</li> <li>identify the larger and the smaller of two numbers (&lt;100).</li> </ul>
13	Mental addition and subtraction <b>(MAS)</b>	Rehearse complements to multiples of 10; find differences using a number line; find change from 10p and 20p, and from £10 to £20 by counting up and using bonds to 10 and 20; add two 2-digit numbers by counting on	Lesson 61 Rehearse complements to multiples of ten on 100-square (S: Count on and back in tens from any 2-digit number)	<ul style="list-style-type: none"> <li>use knowledge of bonds to ten to find complements to next ten</li> <li>count on to find complement to next ten.</li> </ul>
			Lesson 62 Find differences using number line and complements to 10 (S: Link number facts)	<ul style="list-style-type: none"> <li>chn know complements to ten and use to find difference between</li> <li>chn count up to find difference between numbers.</li> </ul>
			Lesson 63 Find change from 10p & 20p by counting up and using bonds to 10 & 20 (S: Count back in ones)	<ul style="list-style-type: none"> <li>add to ten or twenty using bonds</li> <li>find change from 20p by counting up.</li> </ul>
			Lesson 64 Find change from £10 & £20 by counting up & knowing bonds to 10 and 20 (S: Solve place-values additions)	<ul style="list-style-type: none"> <li>count up to ten and twenty to find change, using knowledge of bonds</li> <li>find change from ten and twenty (£ or p) by counting up in ones</li> <li>begin to understand counting up is method of solving subtraction (money).</li> </ul>
			Lesson 65 Add two 2-digit numbers (counting on in tens and ones) (S: Find complements to next ten)	<ul style="list-style-type: none"> <li>add two 2-digit numbers by counting on in tens and ones</li> <li>add two 2-digit numbers crossing tens using complements to ten and then adding on e.g. 38+54, Start with 54, count on 3 tens, 84 then add 6 to 90 and finally add the remaining 2 to 92.</li> </ul>
14	Geometry: properties of shapes <b>(GPS)</b> ; Measurement <b>(MEA)</b> ; Geometry: position and direction <b>(GPD)</b>	Recognise and identify properties (including faces and vertices) of 3D shapes; sort according to properties including number of faces; name the 2D shapes of faces of 3D shapes; tell the time to the nearest	Lesson 66 Recognise and identify 3D shapes, identify properties, sort according to properties which include numbers of faces (S: Pairs with a total of 10)	<ul style="list-style-type: none"> <li>identify and name 3D shapes</li> <li>sort 3D shapes according to the number of faces using Venn diagrams.</li> </ul>
			Lesson 67 Recognise and name 3D shapes including cube, cuboid, pyramid, cylinder, sphere, cone and identify properties, including faces and vertices; Order and arrange combinations of shapes in patterns (S: Rehearse names and properties of 2D shapes)	<ul style="list-style-type: none"> <li>name and describe properties of 3D shapes; sphere, cube, cuboid, cylinder, cone and pyramid</li> <li>create repeating patterns using 3D shapes.</li> </ul>
			Lesson 68 Identify 3D shapes and recognise and name the 2D shapes of their faces (S: Telling the o'clock times on analogue clocks)	<ul style="list-style-type: none"> <li>identify and name common 3D shapes</li> <li>describe the properties of 3D shapes with particular reference to the number and shape of their faces.</li> </ul>

		quarter on analogue and digital clocks	Lesson 69 Tell the time to the nearest quarter on analogue and digital clocks (S: Tell time to half past)	<ul style="list-style-type: none"> <li>tell the time on analogue and digital clocks to the nearest quarter of an hour (quarter past, half past, quarter to and o'clock).</li> </ul>
			Lesson 70 Tell the time to the nearest quarter on analogue and digital clocks (S: Tell time to half past)	<ul style="list-style-type: none"> <li>tell the time to the nearest quarter on analogue and digital clocks.</li> </ul>
15	Number and place-value <b>(NPV)</b>	Order 2-digit numbers and revise the < and > signs; locate 2-digit numbers on a landmarked line and square; round 2-digit numbers to nearest 10; estimate a quantity <100 within a range	Lesson 71 Order 2-digit numbers and revise the < and > signs (S: Count in ones to 100 and back again)	<ul style="list-style-type: none"> <li>compare and order 2-digit numbers using &lt; and &gt; signs.</li> </ul>
			Lesson 72 Locate 2-digit numbers on a 0-100 landmarked line and 1-100 square (S: Identify missing numbers on the 1-100 square)	<ul style="list-style-type: none"> <li>locate 2-digit numbers on a 0-100 landmarked line.</li> </ul>
			Lesson 73 Round 2-digit numbers to nearest ten (S: Odds & Evens)	<ul style="list-style-type: none"> <li>round 2-digit numbers to nearest ten.</li> </ul>
			Lesson 74 Round 2-digit numbers to nearest ten (S: Count in 10s from a single-digit number)	<ul style="list-style-type: none"> <li>round 2-digit numbers to nearest ten.</li> </ul>
			Lesson 75 Estimate a quantity <100 within a range (S: Count in 5s)	<ul style="list-style-type: none"> <li>estimate a quantity &lt;100 within given ranges.</li> </ul>
<b>Spring 2</b>				
<b>Week</b>	<b>Strands</b>	<b>Weekly summary</b>		
16	Fractions, ratio and proportion <b>(FRP)</b> ; Mental multiplication and division <b>(MMD)</b>	Revise doubles and corresponding halves to 15; find half of odd and even numbers to 30; Revise and recognise 1/2s, 1/4s, 1/3s and 2/3s of shapes; place 1/2s on a number line; count in 1/2s and 1/4s; understand and write mixed numbers	Lesson 76 Revise doubles to double 15 and corresponding halves (S: Doubles to double 5)	<ul style="list-style-type: none"> <li>double numbers to 15 and find corresponding halves.</li> </ul>
			Lesson 77 Find half of even numbers to 30; Revise finding half of an odd number (S: Doubles to double 10)	<ul style="list-style-type: none"> <li>halve even numbers to 30</li> <li>recognise odd and even number to 30.</li> </ul>
			Lesson 78 Revise halves and quarters of shapes, and recognise one-third and two-thirds of shapes (S: Halves)	<ul style="list-style-type: none"> <li>recognise, read and write <math>\frac{1}{2}</math>, <math>\frac{1}{4}</math>, <math>\frac{3}{4}</math>, <math>\frac{1}{3}</math> and <math>\frac{2}{3}</math>.</li> </ul>
			Lesson 79 Place halves on a number line, and begin to understand mixed numbers (S: Odd and evens)	<ul style="list-style-type: none"> <li>understand mixed numbers and place halves on a number line.</li> </ul>
			Lesson 80 Count in halves and quarters and write mixed numbers (S: Count in 2s)	<ul style="list-style-type: none"> <li>count in steps of <math>\frac{1}{2}</math> and <math>\frac{1}{4}</math> (without necessarily using the equivalence between halves and quarters).</li> </ul>
17	Mental multiplication and division <b>(MMD)</b>	Count in 2s, 5s and 10s to solve multiplication problems and find specified multiples;	Lesson 81 Revise counting in 2s, 5s and 10s and finding specified multiples, e.g. the fourth in the count of 2s (S: Count in 10s to 200)	<ul style="list-style-type: none"> <li>find a specified multiple in the 2s, 5s and 10s count, e.g. the 4<sup>th</sup> number in the 2s count.</li> </ul>
			Lesson 82 Introduce the x sign to record the 2, 5 and 10 times-tables (S: Odds and evens)	<ul style="list-style-type: none"> <li>understand the x sign</li> <li>begin to know the 2, 5 and 10 times-</li> </ul>

		introduce the x sign; record the 2, 5 and 10 times-tables; find multiplications with the same answer; write multiplications to go with arrays, rotate arrays to show they are commutative		tables.
			Lesson 83 Find multiplications with the same answer (S: 10 times-table)	<ul style="list-style-type: none"> <li>begin to learn the 2x, 5x and 10x tables</li> <li>find multiplications with the same answer.</li> </ul>
			Lesson 84 Count in 2s, 5s and 10s to solve multiplication problems (S: 5 times-table)	<ul style="list-style-type: none"> <li>solve simple word problems involving multiplication.</li> </ul>
			Lesson 85 Write multiplications to go with arrays and rotate arrays to show that multiplication is commutative (S: 2 times-table)	<ul style="list-style-type: none"> <li>write multiplications to go with arrays</li> <li>begin to understand that multiplication is commutative.</li> </ul>
18	Measurement <b>(MEA)</b> ; Statistics <b>(STA)</b>	Tell the time to the nearest quarter of an hour using analogue and digital clocks; understand units of time; express hours in minutes and minutes in seconds; interpret and complete a pictogram where one symbol represents one or two things	Lesson 86 Tell the time to the nearest quarter of an hour using analogue and digital clocks (S: Tell the time to o'clock & half past)	<ul style="list-style-type: none"> <li>tell the time on an analogue or digital clock to the nearest quarter.</li> </ul>
			Lesson 87 Understand units of time: rehearse minutes, hours, days, weeks, months, years (S: Rehearse the months of year )	<ul style="list-style-type: none"> <li>recognise and identify units of time: minutes, hours, days, weeks, months and years</li> <li>begin to know how to express each unit of time in terms of another, smaller unit, e.g. 4 weeks in a month, 24 hours in a day, etc.</li> </ul>
			Lesson 88 Understand seconds, minutes and hours as units of time and express hours in minutes and minutes in seconds; Use a tally chart and complete a block graph (S: Telling the time)	<ul style="list-style-type: none"> <li>understand how long an hour, a minute and a second is</li> <li>recognise and use units of time: hours, minutes, seconds</li> <li>use tally charts to record data</li> <li>construct a block graph using cubes.</li> </ul>
			Lesson 89 Interpret and complete a pictogram or a block graph where one block or symbol represents one thing (S: Tell the time to the nearest quarter of an hour)	<ul style="list-style-type: none"> <li>children can complete a pictogram and interpret and complete pictograms and block graphs where one picture or block represents one item.</li> </ul>
			Lesson 90 Interpret and complete a pictogram or a block graph where one block or picture represents two things (S: Compare numbers to 100)	<ul style="list-style-type: none"> <li>children can interpret and complete a pictogram using one symbol to represent two children.</li> </ul>
19	Mental multiplication and division <b>(MMD)</b>	Revise 2, 5 and 10 times-tables; revise arrays and hops on the number line; multiply by numbers other than 2, 5 and 10; arrange objects	Lesson 91 Revise 2, 5 and 10 times-tables; Arrays and hops on the number line (S: Count in 5s)	<ul style="list-style-type: none"> <li>can count in twos, fives and tens</li> <li>write multiplications to go with hops on numbers lines arrays</li> <li>begin to know their 2, 5 and 10 times-tables by heart.</li> </ul>
			Lesson 92 Begin to multiply by numbers other than 2, 5 and 10 (S: 10 times-table)	<ul style="list-style-type: none"> <li>use multiplication facts to and counting in steps to multiply by 2, 3, 4, 5 and 10.</li> </ul>

		into arrays and write the corresponding multiplications; make links between grouping and multiplication to begin to show division; write divisions as multiplications with holes in and use the $\div$ sign	<p>Lesson 93 Arrange objects into arrays and write the corresponding multiplications (S: 5 times-table)</p> <p>Lesson 94 Make links between grouping and multiplication to begin to show division (S: 2 times-table)</p> <p>Lesson 95 Begin to write divisions as multiplications with holes in and also to use the <math>\div</math> sign (S: Count in 2s)</p>	<ul style="list-style-type: none"> <li>• arrange objects into arrays and write the corresponding multiplications.</li> <li>• understand division as grouping</li> <li>• use multiplication facts or counting up in steps to solve divisions.</li> <li>• begin to write divisions using the <math>\div</math> sign.</li> </ul>
20	Measurement <b>(MEA)</b> ; Mental addition and subtraction <b>(MAS)</b>	Recognise all coins, know their value, and use them to make amounts; recognise £5, £10, £20 notes; make amounts using coins and £10 note; write amounts using £.p notation; order coins 1p-£2 and notes £5 - £20; add several coins writing totals in £.p notation (no zeros in 10p place); add two amounts of pence, using counting on in tens and ones; add two amounts of money, beginning to cross into £s	<p>Lesson 96 Recognise all coins, know their value, using them to make amounts; Recognise £5, £10, £20 notes (S: Count on and back in tens)</p> <p>Lesson 97 Recognise coins and notes; Make amounts using coins and £10 note; Begin to write amounts using £.p notation (S: 10 times-table)</p> <p>Lesson 98 Order coins 1p-£2 and notes £5 - £20, add several coins writing totals in £.p notation (no zeros in 10p place) (S: Two times-table)</p> <p>Lesson 99 Add two amounts of pence, using counting on in tens and ones (S: 5 times-table)</p> <p>Lesson 100 Add two amounts of money, beginning to cross into £s (S: Find change from £20)</p>	<ul style="list-style-type: none"> <li>• recognise &amp; know value of coins 1p-£2</li> <li>• add several coins adding by counting on in £, 10ps and 1ps.</li> <li>• recognise &amp; know value of coins 1p-£2, know £1=100p</li> <li>• begin to write amounts using £.p notation.</li> <li>• recognise &amp; know value of coins 1p-£2 &amp; notes £5-£20</li> <li>• add several coins adding by counting on in £, 10ps and 1ps</li> <li>• begin to write using £.p notation.</li> <li>• add two amounts of money (&lt;£1) not crossing £1 but crossing 10ps by counting on in 10ps and then 1ps starting with the larger number.</li> <li>• add two amounts of money (&lt;£1) crossing 10ps and £1 by counting on in 10ps and then 1ps starting with the larger number</li> <li>• write amounts using £.p notation (No zeros in 10ps place).</li> </ul>
<b>Summer 1</b>				
<b>Week</b>	<b>Strands</b>	<b>Weekly summary</b>		
21	Number and place-value <b>(NPV)</b> ; Mental addition and	Locate, order and compare 2-digit numbers on 0-100	Lesson 101 Locate, order and compare 2-digit numbers on 0-100 landmarked lines and on the 1-100 square; use < and > signs (S: Count in steps of $\frac{1}{2}$ )	<ul style="list-style-type: none"> <li>• locate, order and compare 2-digit numbers on 0-100 landmarked lines and on the 1-100 square</li> </ul>

	subtraction <b>(MAS)</b>	landmarked lines and on the 1-100 square; use < and > signs; locate numbers on an empty 0-100 line; introduce numbers 101 to 200 and count in 100s to 1000; add 2-digit numbers by counting on in 10s and 1s; subtract 2-digit numbers by counting back in 10s and 1s		<ul style="list-style-type: none"> <li>use &lt; and &gt; signs.</li> </ul>
			Lesson 102 Begin to locate numbers on an empty 0-100 line (S: Order 2-digit numbers)	<ul style="list-style-type: none"> <li>begin to locate numbers on an empty number line</li> <li>round 2-digit numbers to the nearest 10.</li> </ul>
			Lesson 103 Introduce numbers 101 to 200 and count in 100s to 1000 (S: Locate numbers on the 1-100 square)	<ul style="list-style-type: none"> <li>read numbers to 200 and locate them on a 101 to 200 square</li> <li>count in steps of 100 to 1000.</li> </ul>
			Lesson 104 Add 2-digit numbers by counting on in 10s and 1s (S: Count from 101 to 200)	<ul style="list-style-type: none"> <li>add 2-digit numbers by putting the larger number first, then counting on the 10s, then adding on the 1s of the smaller number.</li> </ul>
			Lesson 105 Subtract 2-digit numbers by counting back in 10s and 1s (S: Count back in 10s)	<ul style="list-style-type: none"> <li>subtract 2-digit numbers by subtracting the 10s then the 1s of the smaller number.</li> </ul>
22	Mental addition and subtraction <b>(MAS)</b> ; Mental multiplication and division <b>(MMD)</b>	Use doubles and number bonds to add three 1-digit numbers; use number facts to 10 and 20 in number stories; find complements to multiples of 10; understand subtraction as difference and find this by counting up; find small differences either side of a multiple of 10	Lesson 106 Use doubles and number bonds to add three single digit numbers (S: Doubles to 10)	<ul style="list-style-type: none"> <li>double numbers to double 10</li> <li>know number bonds to 10</li> <li>use doubles and number bonds to ten in adding three single digit numbers.</li> </ul>
			Lesson 107 Use number facts to 10 and 20 in number stories (S: Pairs to 10 and 20)	<ul style="list-style-type: none"> <li>use number bonds to 10 and 20 in stories.</li> </ul>
			Lesson 108 Find complements to multiples of 10; Begin to understand subtraction as difference, and find this by counting up (S: Find complements to 20)	<ul style="list-style-type: none"> <li>find complements to multiples of 10</li> <li>begin to understand subtraction as difference, and find this by counting up using pairs to 10.</li> </ul>
			Lesson 109 Find small differences either side of a multiple of 10; Begin to understand subtraction as difference, using counting up (S: Solve place-value additions and subtractions)	<ul style="list-style-type: none"> <li>work out differences (less than 10) using knowledge of complements to ten and PV additions.</li> </ul>
			Lesson 110 Find small difference using complements to multiples of 10 (S: Complements to the next 10)	<ul style="list-style-type: none"> <li>work out differences (less than 10) using knowledge of complements to ten and PV additions.</li> </ul>
23	Mental addition and subtraction <b>(MAS)</b> ; Written addition and subtraction <b>(WAS)</b>	Add and subtract 1-digit numbers to and from 2-digit numbers; subtract 2-digit numbers by	Lesson 111 Add/subtract single-digit number to/from 2-digit numbers (S: Complements to 10s)	<ul style="list-style-type: none"> <li>add/subtract 1-digit numbers from 2-digit numbers.</li> </ul>
			Lesson 112 Subtract 2-digit numbers by counting back in 10s and 1s (S: Count on/back in ones from any 2-digit number)	<ul style="list-style-type: none"> <li>chn subtract 2-digit numbers by counting back in 10s and 1s (not crossing tens).</li> </ul>

		counting back in tens and ones; add two 2-digit numbers by counting in 10s, then adding 1s; add 2-digit numbers using 10p and 1p coins (partitioning, answers less than 100); add 2-digit numbers using place-value cards (partitioning, answers more than 100)	Lesson 113 Add two 2-digit numbers by counting in 10s, then adding 1s (S: Add multiples of ten)	<ul style="list-style-type: none"> <li>add two 2-digit numbers by counting on in tens and ones</li> <li>begin to cross 100 when adding two numbers.</li> </ul>
			Lesson 114 Add 2-digit numbers using 10p and 1p coins (partitioning, answers less than 100) (S: Number facts for single-digit numbers)	<ul style="list-style-type: none"> <li>chn begin to add three 2-digit numbers using coins to count tens and ones and total.</li> </ul>
			Lesson 115 Add 2-digit numbers using place-value cards (partitioning, answers more than 100) (S: Adding multiples of 10)	<ul style="list-style-type: none"> <li>children can use partitioning to add any pair of 2-digit numbers.</li> </ul>
24	Measurement <b>(MEA)</b> ; Statistics <b>(STA)</b>	Measure weight using standard or uniform non-standard units; draw a block graph where one square represents two units; weigh items using 100g weights using scales marked in multiples of 1kg or 100g; measure capacity using uniform non-standard units; measure capacity in litres and in multiples of 100ml	Lesson 116 Measure weight using standard or uniform non-standard units; Draw a block graph where one square represents two units (S: Count on in steps of 100 to 1000)	<ul style="list-style-type: none"> <li>measure weight using uniform non-standard units</li> <li>draw a block graph where one square represents two units.</li> </ul>
			Lesson 117 Weigh items using 100g weights using scales marked in multiples of 1kg or 100g (S: Count on in steps of 100 to 1000)	<ul style="list-style-type: none"> <li>begin to know standard units of weight (g and kg)</li> <li>begin to read a scale marked in intervals of 100g.</li> </ul>
			Lesson 118 Measure capacity using uniform non-standard units; Draw a block graph where one square represents two units (S: Count in 2s)	<ul style="list-style-type: none"> <li>measure capacity in uniform non-standard units</li> <li>understand bar charts where one square represents two units.</li> </ul>
			Lesson 119 Begin to measure capacity in litres (S: Draw a line of a given length)	<ul style="list-style-type: none"> <li>have a sense of how much one litre and half a litre are.</li> </ul>
			Lesson 120 Begin to measure capacity in multiples of 100ml (S: Tell the time to the $\frac{1}{4}$ hour on analogue and digital clocks)	<ul style="list-style-type: none"> <li>draw block graph where one square represents two units</li> <li>recognise that capacity is measure in litres and in millilitres.</li> </ul>
25	Mental multiplication and division <b>(MMD)</b> ; Fractions, ratio and proportion <b>(FRP)</b>	Double multiples of 10 and 5 (answers less than 100); double 2-digit numbers ending in	Lesson 121 Double multiples of 10 and 5 (answers less than 100) (S: Doubles to double 15)	<ul style="list-style-type: none"> <li>double multiples 10 and 5 (answers less than 100).</li> </ul>
			Lesson 122 Double 2-digit numbers ending in 1, 2, 3 or 4 (answers less than 100) (S: Counting in halves and quarters)	<ul style="list-style-type: none"> <li>double 2-digit numbers ending in 1, 2, 3 or 4 (answers less than 100).</li> </ul>

		1, 2, 3 or 4 (answers less than 100); find a quarter of numbers up to 40 by halving twice; begin to find $\frac{3}{4}$ of numbers; find $\frac{1}{2}$ , $\frac{1}{4}$ and $\frac{1}{3}$ of amounts (sharing); find patterns	Lesson 123 Find a quarter of numbers up to 40 by halving twice; Begin to find $\frac{3}{4}$ of numbers (S: Halve even numbers to 30)	<ul style="list-style-type: none"> <li>find a quarter of numbers up to 40 by halving twice (whole number answers); begin to find <math>\frac{3}{4}</math> of amounts.</li> </ul>
			Lesson 124 Find $\frac{1}{2}$ , $\frac{1}{4}$ and $\frac{1}{3}$ of amounts (sharing) (S: 2 times-table)	<ul style="list-style-type: none"> <li>find half, third and a quarter of numbers of objects.</li> </ul>
			Lesson 125 Find $\frac{1}{3}$ of amounts; Find patterns (S: Pairs to 20)	<ul style="list-style-type: none"> <li>find a third of a number of objects by sharing between three.</li> </ul>
<b>Summer 2</b>				
<b>Week</b>	<b>Strands</b>	<b>Weekly summary</b>		
26	Number and place-value ( <b>NPV</b> ); Measurement ( <b>MEA</b> ); Mental addition and subtraction ( <b>MAS</b> )	Revise place-value in 2-digit numbers; understand place-value in numbers between 100 and 200; understand place-value of 3-digit numbers (no zeros and then including zeros in the 10s and 1s places); record amounts of money using £.p notation	Lesson 126 Count back in tens and ones to solve subtraction (not crossing tens) (S: Count back from any number)	<ul style="list-style-type: none"> <li>subtract by counting back in tens and ones</li> <li>use known number facts to subtract ones e.g. <math>8 - 4 = 4</math> as <math>4 + 4 = 8</math>, etc.</li> </ul>
			Lesson 127 Count back in tens and ones to solve subtraction (not crossing tens); Check subtraction using addition; Begin to understand addition undoes subtraction and vice versa (S: Count in quarters)	<ul style="list-style-type: none"> <li>count back in tens and ones to solve subtraction (2-digit – 2-digit)</li> <li>use number facts to help add and subtract ones</li> <li>use addition to check subtraction of 2-digit numbers.</li> </ul>
			Lesson 128 Add three 1-digit numbers using number facts (e.g. bonds to 10, doubles, etc) (S: Number bonds to 7, 8, 9 & 10)	<ul style="list-style-type: none"> <li>add several 1-digit numbers using number facts to help</li> <li>know number bonds to 5, 6, 7, 8, 9, 10, 11 &amp; 12 and doubles to double 15.</li> </ul>
			Lesson 129 Record amounts of money using £.p notation (S: Recognise all coins)	<ul style="list-style-type: none"> <li>find totals of notes and coins</li> <li>record amounts of money using £.p notation.</li> </ul>
			Lesson 130 Money notation as £ and pence including beginning to recognise / write amounts such as £203 and £230 (S: Paying with three coins)	<ul style="list-style-type: none"> <li>record amounts of money using £.p notation.</li> </ul>
27	Mental multiplication and division ( <b>MMD</b> ); Number and place-value ( <b>NPV</b> )	Count in 3s, recognising numbers in the 3x table; write multiplications to go with arrays; understand that	Lesson 131 Count in 3s, begin to recognise numbers in the 3x table (S: 10 times-table)	<ul style="list-style-type: none"> <li>begin to count in 3s</li> <li>begin to solve multiplications in 3x table by counting in 3s.</li> </ul>
			Lesson 132 Write multiplications to go with arrays; Understand that multiplication is commutative (S: 5 times-table)	<ul style="list-style-type: none"> <li>understand the <math>\times</math> sign</li> <li>begin to know the 3 times-table</li> <li>begin to know multiplication is commutative (it can be done in any</li> </ul>

		<p>multiplication is commutative; understand that division and multiplication are inverse operations; solve divisions as multiplications with a missing number; count in 2s, 3s, 5s and 10s to solve divisions</p>	<p>Lesson 133 Record 3 x table; Write multiplications to go with arrays; Understand that multiplication is commutative; Understand that division is the inverse of multiplication (S: 2 times-table)</p> <p>Lesson 134 Begin to solve divisions as multiplications with a missing number; Understand that division and multiplication are inverse operations (S: Count in 3s)</p> <p>Lesson 135 Count in 2s, 3s, 5s and 10s to solve divisions; Understand that division and multiplication are inverse operations (S: 3 times-table)</p>	<p>order).</p> <ul style="list-style-type: none"> <li>begin to know the 3 times-table</li> <li>begin to know multiplication is commutative (it can be done in any order).</li> <li>chn solve missing number multiplications by counting up in steps.</li> <li>solve and record divisions.</li> </ul>
28	Measurement <b>(MEA)</b>	<p>Measure and estimate lengths in centimetres; tell the time involving multiples of 5 minutes past the hour and 5 minutes to the hour; tell time to five minutes; say the time 10 minutes later</p>	<p>Lesson 136 Begin to measure lengths in centimetres (S: Revise language of position &amp; direction)</p> <p>Lesson 137 Measure lengths in centimetres; begin to estimate lengths in centimetres (S: Count in 10s)</p> <p>Lesson 138 Tell the time involving multiples of 5 minutes past the hour; Begin to tell times with multiples of 5 to the hour (S: Tell the time to the quarter hour on an analogue clock)</p> <p>Lesson 139 Tell the time involving multiples of 5 minutes past the hour; Begin to tell times with multiples of 5 to the hour (S: Know what coins can be used to pay a given amount)</p> <p>Lesson 140 Tell time to five minutes; Begin to say the time 10 minutes later (S: Units of time)</p>	<ul style="list-style-type: none"> <li>begin to measure in centimetres</li> <li>have a rough idea of how long 10cm is.</li> <li>use a 30cm ruler to measure lengths to the nearest centimetre.</li> <li>know that there are 60 minutes in an hour</li> <li>tell time to <math>\frac{1}{4}</math> hour, and multiples of 5 past the hour on analogue and digital clocks.</li> <li>tell the time involving multiples of 5 minutes past the hour</li> <li>begin to tell times with multiples of 5 to the hour.</li> <li>read and write times to o'clock, half past and quarter hour on analogue and digital clocks.</li> </ul>
29	<p>Mental multiplication and division <b>(MMD)</b>;</p> <p>Written addition and subtraction <b>(WAS)</b>;</p> <p>Mental addition and subtraction <b>(MAS)</b></p>	<p>Partition to add two 2-digit numbers; find a difference between two 2-digit numbers; multiply two numbers using counting in steps; solve division problems by counting in steps of 2, 3, 5 and 10</p>	<p>Lesson 141 Partition to add two 2-digit numbers (S: Count in steps of <math>\frac{1}{4}</math> )</p> <p>Lesson 142 Find a difference between two 2-digit numbers (S: Bonds to 10)</p> <p>Lesson 143 Multiply two numbers using counting in steps (S: Count in 2s, recognise even and odd numbers)</p>	<ul style="list-style-type: none"> <li>add two 2-digit numbers using partitioning</li> <li>understand the value of the digits in a 2-digit number.</li> <li>begin to find a difference by counting up from one 2-digit number to another</li> <li>begin to use an empty number line to perform subtractions.</li> <li>use clever counting in 2s, 5s and 10s to work out multiplications</li> <li>begin to use clever counting in 3s and</li> </ul>

				4s to work out multiplications <ul style="list-style-type: none"> <li>• identify patterns and use these to predict answers</li> <li>• use mathematical reasoning to explain patterns.</li> </ul>
			Lesson 144 Solve division problems by counting in steps of 2, 3, 5 and 10 (S: Count in 5s)	<ul style="list-style-type: none"> <li>• use clever counting to work out division</li> <li>• understand that multiplications can also be written as divisions.</li> </ul>
			Lesson 145 Solve division problems by counting in steps of 2, 3, 5 and 10 (S: Tell the time)	<ul style="list-style-type: none"> <li>• use counting in 2s, 5s and 10s to solve word problems involving multiplication and division.</li> </ul>
30			Lesson 146 Comparing two 2-digit numbers using thermometer as a context (S: Find a small difference between 2 numbers by counting up)	<ul style="list-style-type: none"> <li>• compare 3-digit numbers in the context of temperatures</li> <li>• find small differences in temperature</li> <li>• read a scale with only multiples of 5 labelled (marks for other numbers).</li> </ul>
			Lesson 147 Bonds to 100 using thermometers (S: Pairs with a total of 10)	<ul style="list-style-type: none"> <li>• find complements to 100.</li> </ul>
			Lesson 148 Revise place value in 2-digit numbers; Place value in numbers between 100 and 200 (S: Count from 100 to 200)	<ul style="list-style-type: none"> <li>• know what each digit represents in 3-digit numbers and numbers between 100 and 200</li> <li>• compare numbers using place value.</li> </ul>
			Lesson 149 Place value of 3-digit numbers (no zeros) (S: Count in ones from 100 to 200)	<ul style="list-style-type: none"> <li>• write 3-digit numbers and know what each digit stands for.</li> </ul>
			Lesson 150 Place value of 3-digit numbers (including zeros in the 10s and 1s places) (S: Say how many are need to make the next multiple of 10)	<ul style="list-style-type: none"> <li>• write 3-digit numbers and know what each digit stands for</li> <li>• use zero as a place holder.</li> </ul>