

George Fentham Subject Leader Curriculum Map

Subject: Maths (Abacus)

Year 1, Autumn Term 1

Wk	Strands	Progression Focus	Weekly Summary
1	NPV Number and place value; MAS Mental addition and subtraction	Counting and representing numbers Week 1 focuses on counting, ordering, comparing numbers to 20 and beyond.	Count up to 20 objects (match number to object); estimate and count up to 30 objects; count on and back and order numbers to 10; recognise domino/dice arrays without counting; identify a number 1 more (next number in count)
2	MAS Mental addition and subtraction; PRA Problem solving, reasoning and algebra	Addition and subtraction Weeks 2 and 3 focus on number stories, for addition / subtraction facts, doubles and counting on / back 1.	Find pairs that make 5; subitise to 5; find pairs that make 6; subitise to 6; find pairs that make 10; subitise fingers to 10; match pairs to 5, 6 and 10 to number sentences; find missing numbers in number sentences
3	MMD Mental multiplication and division; MAS Mental addition and subtraction	Addition and subtraction Weeks 2 and 3 focus on number stories, for addition / subtraction facts, doubles and counting on / back 1.	Double numbers 1 to 5; find 1 and 2 more; count back 1 and begin to find 1 less
4	GPS Geometry: properties of shapes; STA Statistics	2D shapes Week 4 focuses on 2D shapes: identifying, naming and sorting according to different properties.	Recognise, name and describe squares, rectangles, circles and triangles; recognise basic line symmetry; sort 2D shapes according to their properties, using Venn diagrams and Carroll diagrams
5	NPV Number and place value; MAS Mental addition and subtraction	Place value and representing numbers Weeks 5 and 6 focus on reading, writing, comparing, ordering numbers to 20 and beyond; adding / subtracting 1 or 10.	Read and write numbers and number-names to 20; compare and order numbers to 20; identify 1 more and 1 less; estimate sets of objects, count to check and order sets according to size; understand 0 as the empty set

Year 1, Autumn Term 2

Wk	Strands	Progression Focus	Weekly Summary
6	NPV Number and place value	Place value and representing numbers Weeks 5 and 6 focus on reading, writing, comparing, ordering numbers to 20 and beyond; adding / subtracting 1 or 10.	Understand and then make teen numbers (10 and some 1s); compare and order numbers to 20, then 30; find the number between two numbers with a difference of 2; understand and use ordinal numbers
7	MAS Mental addition and subtraction; PRA Problem solving, reasoning and algebra	Addition and subtraction Week 7 focuses on using number facts; representing addition and subtraction with concrete objects.	Revise bonds to 5, 6 and 10; find pairs which make 7; use addition facts for 5, 6 and 10 to solve subtractions; use number facts for 5, 6 and 10 to solve word problems
8	GPD Geometry: position and direction; MEA Measurement	Position and direction; length Week 8 focuses on establishing position and direction, then comparing and measuring lengths with uniform units.	Describe position and direction using common words (including half turns); compare lengths and heights; estimate, compare and measure lengths using uniform non-standard and standard units
9	MAS Mental addition and subtraction; MMD Mental multiplication and division	Addition and subtraction; money Weeks 9 and 10 focus on counting on or back 1 / 2 / 3 and recognising coins, then finding totals.	Add 1, 2 and 3 by counting on; subtract 1, 2, 3 or more by counting back; begin to add three small numbers by spotting bonds to 10 or doubles (1-6)
10	NPV Number and place value; MEA Measurement	Addition and subtraction; money Weeks 9 and 10 focus on counting on or back 1 / 2 / 3 and recognising coins, then finding totals.	Compare and order numbers to 20; recognise coins and know values (up to £2); begin to make amounts in pence; understand teen numbers are 10 and some 1s

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Wk	Strands	Progression Focus	Weekly Summary
11	NPV Number and place value; MAS Mental addition and subtraction	Place value Week 11 focuses on using a variety of images to embed an understanding of 2-digit numbers and place value, including finding 1 more / less.	Say the number one more or less and two more or less using a number line or a 100 grid; locate 2-digit numbers on a 100 grid and a 1-100 bead string; read, write and say 2-digit numbers and understand them as some tens and some ones
12	MAS Mental addition and subtraction; PRA Problem solving, reasoning and algebra; MMD Mental multiplication and division	Number facts Week 12 focuses on embedding a reliable recall of number facts, then using these to solve simple word problems.	Revise pairs to 5, 6, 7, 10 and doubles to double 6; derive subtraction facts; understand a symbol being used for an unknown; use number facts to solve simple addition and subtraction word problems; find pairs of numbers with a total of 8
13	MAS Mental addition and subtraction	Addition and subtraction Week 13 focuses on using known number facts to add and subtract using unit patterns and other strategies.	Add by putting the larger number first and counting on (numbers up to 100), spotting unit patterns; count on from 2-digit numbers; add a 1-digit number to a 2-digit number
14	GPS Geometry: properties of shapes; STA Statistics; MEA Measurement	3D shapes; time Week 14 focuses on naming and identifying 3D shapes and their properties, and then on rehearsing days of the week and months of the year.	Name, recognise and know the properties of 3D shapes: cube, cuboid, cone, cylinder and sphere; begin to sort 3D shapes according to properties; order and name the days of the week and months of the year; recognise and name the seasons
15	NPV Number and place value; MMD Mental multiplication and division	Numbers and counting; fractions Weeks 15 and 16 focus on counting, extending this skill to include counting in 2s, 5s, 10s and identifying patterns; counting is related to estimation and then to halves and quarters as equal parts of a whole.	Count on and back in tens from any number; begin to count in 5s and 2s recognising multiples of 5 end in 5 and 0; chn begin to count in 2s; estimate a number of objects within a range and count by grouping into 10s or 5s

Year 1, Spring Term 2

Wk	Strands	Progression Focus	Weekly Summary
16	NPV Number and place value; MMD Mental multiplication and division; FRP Fractions, ratio and proportion	Numbers and counting; fractions Weeks 15 and 16 focus on counting, extending this skill to include counting in 2s, 5s, 10s and identifying patterns; counting is related to estimation and then to halves and quarters as equal parts of a whole.	Recognise odd and even numbers; count objects in 5s and 10s and begin to say 5 lots and 10 lots; find half, quarter and three quarters of shapes; begin to know that two halves and four quarters are a whole and that two quarters is a half
17	MAS Mental addition and subtraction; MMD Mental multiplication and division; PRA Problem solving, reasoning and algebra	Number facts Week 17 focuses on number facts, including doubles and halves, and the use of these in additions and subtractions to 20.	Find and begin to know doubles to double 10; revise pairs to 5, 6, 7, 8, 9 and 10 and derive related subtraction facts; use knowledge of pairs of 10 to make pairs to 20; use number facts to solve word problems
18	MEA Measurement	Time Week 18 focuses on units of time and telling the time to the nearest half hour, and on developing understanding of how long a minute, hour, day, week, etc. are.	Relate units of time weeks, days, hours; divide the days up into parts; read and write times to the hour; begin to have a notion of how long an hour is and how long a minute is; tell the time (o'clock and half past) on analogue and digital clocks; measure using uniform units (cubes and rulers)
19	MAS Mental addition and subtraction	Addition and subtraction Week 19 focuses on addition and subtraction, specifically in relation to counting on and back, sometimes crossing 10.	Add a 1-digit number by counting on from a 2-digit number, not crossing 10s at first, then beginning to cross 10s; subtract a 1-digit number by counting back initially from numbers up to 30 (not crossing 10s) and then generally from a 2-digit number (not crossing 10s) and from multiples of 10

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20	NPV Number and place value; MAS Mental addition and subtraction	Place value and money Week 20 focuses on place value in 2-digit numbers and then in relation to money: £1s, 10s, 1ps; children find 1 / 10 more / less than any number.	Locate 2-digit numbers on a 100-square; begin to recognise 2-digit numbers as some 10s and 1s; make 2-digit numbers using 10p and smaller coins; find 1 more or 1 less than any number to 100; find 10 more than any number to 90; find 10 less than any number to 100
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Year 1, Summer Term 1

Wk	Strands	Progression Focus	Weekly Summary
21	NPV Number and place value; MAS Mental addition and subtraction; PRA Problem solving, reasoning and algebra	Place value Week 21 focuses on consolidating understanding of 2-digit numbers, representing these in different ways, and partitioning into 10s and 1s.	Find 1 more, 1 less, 10 more, 10 less than any 2-digit number; explore patterns on the 100-square; understand place value in 2-digit numbers and identify 10s and 1s
22	MAS Mental addition and subtraction	Addition and subtraction Weeks 22 and 23 focus on revision of number facts and using these to solve additions and subtractions involving 1- and 2-digit numbers.	Use number facts to add and subtract 1-digit numbers to/from 2-digit numbers; add pairs of 1-digit numbers with totals above 10; sort out additions into those you 'just know' and those you need to work out
23	MAS Mental addition and subtraction	Addition and subtraction Weeks 22 and 23 focus on revision of number facts and using these to solve additions and subtractions involving 1- and 2-digit numbers.	Add three small numbers, spotting pairs to 10 and doubles; add and subtract 10 to and from 2-digit numbers
24	MEA Measurement; STA Statistics	Measures Week 24 focuses on weight and capacity, comparing and using uniform non-standard units to measure both; information is recorded in block graphs for ease and clarity.	Compare weights and capacities using direct comparison; measure weight and capacity using uniform non-standard units; complete tables and block graphs, recording results and information; make and use a measuring vessel for capacity
25	NPV Number and place value; MMD Mental multiplication and division; FRP Fractions, ratio and proportion; MEA Measurement	Fractions; money Week 25 focuses on doubling and halving numbers, and recognising halves and quarters of shapes; and on recognising coins and solving money problems.	Find half of all numbers to 10 and then to 20; identify even numbers and begin to learn halves; recognise halves and quarters of shapes and begin to know $2/2=1$, $4/4=1$ and $2/4=1/2$; recognise, name and know value of coins 1p–£2 and £5 and £10 notes; solve repeated addition problems using coins; make equivalent amounts using coins

Year 1, Summer Term 2

Wk	Strands	Progression Focus	Weekly Summary
26	NPV Number and place value	Place value Week 26 focuses on rehearsing place value in 2-digit numbers.	Locate 2-digit numbers on a beaded line and 100-square; compare and order 2-digit numbers up to 100 and say a number between two numbers; identify 10s and 1s in 2-digit numbers and solve place-value additions
27	NPV Number and place value; MMD Mental multiplication and division; PRA Problem solving, reasoning and algebra; FRP Fractions, ratio and proportion	Multiplication and division Week 27 focuses on identifying patterns in multiples of 2, 5 and 10, and relating counting in 2s to doubling and halving.	Recognise odd and even numbers; count in 2s, 5s and 10s, look for patterns; multiply by 2, 5, 10 by counting in groups/sets; find doubles to double 10 and related halves; halve odd numbers up to 10

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28	MEA Measurement; STA Statistics; GPS Geometry: properties of shapes; GPD Geometry: position and direction	Time; measures; 2D shapes Week 28 focuses on telling the time to the quarter hour; on measuring lengths, recording information in pictograms and block graphs; and on repeating patterns using 2D shapes.	Tell the time to the half hour and quarter hour on analogue clocks and begin to read these times on digital clocks; revise months of the year; read, interpret and create a pictogram; begin to recognise and read block graphs; measure lengths using non-standard, uniform units; recognise and name simple 2D shapes and continue repeating patterns
29	MAS Mental addition and subtraction	Addition and subtraction Week 29 focuses on using number facts to solve additions and subtractions involving 1- and 2-digit numbers and finding change.	Use number facts to add and subtract 1-digit numbers to and from 2-digit numbers; find change from 10p and from 20p
30	NPV Number and place value; MAS Mental addition and subtraction; MMD Mental multiplication and division	Place value; multiplication Week 30 focuses on consolidating understanding of 2-digit numbers; and on exploring patterns in multiples of 2, 5 and 10.	Locate 2-digit numbers on a bead string and a 1-100 square; order numbers to 100; identify 10s and 1s in 2-digit numbers; say or write 1 more and 1 less and 10 more and 10 less than any number to 100; explore patterns in 10s, 5s and 2s on a 9x9 grid; count in tens from any given number

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Year 2, Autumn Term 1

Wk	Strands	Progression Focus	Weekly Summary
1	NPV Number and place value; PRA Problem solving, reasoning and algebra	Place value Week 1 focuses on place value in numbers 0–100 and different ways of representing, comparing and ordering these.	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
2	MAS Mental addition and subtraction; PRA Problem solving, reasoning and algebra	Addition and subtraction Weeks 2 and 3 focus on learning and using addition and subtraction number facts, including bonds to 10, in simple and harder calculations.	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
3	MMD Mental multiplication and division; MAS Mental addition and subtraction; PRA Problem solving, reasoning and algebra	Addition and subtraction Weeks 2 and 3 focus on learning and using addition and subtraction number facts, including bonds to 10, in simple and harder calculations.	Double numbers to double 15, use patterns in number bonds, use number bonds to solve more difficult additions, to subtract and to solve additions bridging 10
4	GPS Geometry: properties of shapes; STA Statistics	2D shapes Week 4 focuses on identifying and classifying 2D shapes, using a variety of sorting devices.	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, investigate which tessellate, sort shapes and objects using a two-way Carroll diagram
5	NPV Number and place value; PRA Problem solving, reasoning and algebra; MAS Mental addition and subtraction	Place value; ordinal numbers Weeks 5 and 6 focus on developing a good understanding of place value, comparing and ordering numbers to 100, including ordinal numbers.	Begin to mark numbers on a landmarked line, compare and order numbers, using < and > signs, work systematically to find all possible inequalities, find 1 and 10 more or less using the 100-square, find 10 more and 10 less than any 2-digit number

Year 2, Autumn Term 2

Wk	Strands	Progression Focus	Weekly Summary
6	NPV Number and place value; PRA Problem solving, reasoning and algebra; MAS Mental addition and subtraction	Place value; ordinal numbers Weeks 5 and 6 focus on developing a good understanding of place value, comparing and ordering numbers to 100, including ordinal numbers.	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 and record all possible amounts using 10p and 1p coins; find 10p more and 10p less; Find 10 more and 10 less
7	MAS Mental addition and subtraction; PRA Problem solving, reasoning and algebra	Addition and subtraction Week 7 focuses on adding and subtracting smaller 2-digit numbers to and from larger ones.	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 1s; solve addition and subtraction problems using concrete and pictorial representations
8	GPD Geometry: position and direction; MEA Measurement	Position and direction; length Week 8 focuses on understanding the vocabulary associated with position and movement and then comparing and measuring lengths using cm and m.	Understand and use terms and vocabulary associated with position, direction and movement; Measure lengths using uniform units; Begin to measure in centimetres and metres
9	MAS Mental addition and subtraction; PRA Problem solving, reasoning and algebra; MMD Mental multiplication and division	Addition and subtraction	Add and subtract 2-digit numbers; Solve addition and subtraction problems using concrete and pictorial representations; Add near doubles to double 15; Add several small numbers spotting near doubles or pairs to 10, etc.

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Week 9 focuses on adding, subtracting, doubling and halving 2-digit numbers, using an understanding of place value.

10 **MMD** Mental multiplication and division; **MEA** Measurement; **PRA** Problem solving, reasoning and algebra

Using money in calculations

Week 10 focuses on counting in uniform steps, using coins to help us create sequences and find totals.

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

Year 2, Spring Term 1

Wk	Strands	Progression Focus	Weekly Summary
11	NPV Number and place value; MAS Mental addition and subtraction	Place value Week 11 focuses on understanding place value in numbers to 100 and beginning to use this to add and subtract 2-digit numbers.	Place value and ordering 2-digit numbers; place value additions and subtractions; add and begin to subtract 9, 10 and 11
12	MAS Mental addition and subtraction; PRA Problem solving, reasoning and algebra	Number facts; addition and subtraction Weeks 12 and 13 focus on revising, then using, bonds to 10 in addition (counting on, bridging 10), and subtraction (finding a difference, extending to calculating change).	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 numbers by counting on
13	MAS Mental addition and subtraction; PRA Problem solving, reasoning and algebra; MEA Measurement	Number facts; addition and subtraction Weeks 12 and 13 focus on revising, then using, bonds to 10 in addition (counting on, bridging 10), and subtraction (finding a difference, extending to calculating change).	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
14	GPS Geometry: properties of shapes; GPD Geometry: position and direction; MEA Measurement	3D shapes; time Week 14 focuses on identifying 3D shapes and their properties, including naming 2D faces; and then on rehearsing telling the time on analogue and digital clocks.	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 quarter on analogue and digital clocks
15	NPV Number and place value	Place value Week 15 focuses on extending understanding of place value to include landmarked lines and estimation.	Order 2-digit numbers and revise the < and > signs; locate 2-digit numbers on a landmarked line and grid; round 2-digit numbers to nearest 10; estimate a quantity <100 within a range

Year 2, Spring Term 2

Wk	Strands	Progression Focus	Weekly Summary
16	MMD Mental multiplication and division; FRP Fractions, ratio and proportion	Fractions Week 16 and focuses on doubling and halving, including odd numbers, leading to counting in halves and mixed numbers; unit and non-unit fractions are then modelled using a variety of images.	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
17	MMD Mental multiplication and division; PRA Problem solving, reasoning and algebra	Multiplication and division Week 17 focuses on 'clever counting' on the number line, and introduces the × sign for multiplication.	Count in 2s, 5s and 10s to solve multiplication problems and find specified multiples; introduce the × sign; record the 2, 5 and 10 times-tables; investigate multiplications with the same answer; write multiplications to go with arrays, rotate arrays to show they are commutative

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18	MEA Measurement; STA Statistics	Time; data Week 18 focuses on telling the time and further develops children's understanding of the units of time; time is then used as the context for data to be represented on pictograms and block graphs.	Tell the time to the nearest quarter of an hour using analogue and digital clocks; understand the relationship between seconds, minutes and hours and use a tally chart; interpret and complete a pictogram or block graph where one block or symbol represents one or two things
19	MMD Mental multiplication and division; PRA Problem solving, reasoning and algebra	Multiplication and division Week 19 focuses on 'clever counting' using arrays as well as number lines; division is introduced as the inverse of multiplication.	Revise 2, 5 and 10 times-tables; revise arrays and hops on the number line; multiply by 2, 3, 4, 5 and 10; arrange objects 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
20	MEA Measurement; NPV Number and place value; PRA Problem solving, reasoning and algebra; MAS Mental addition and subtraction	Money and money calculations Week 20 focuses on rehearsing coin and note values, and on writing amounts of money; money is then used as the context for adding and finding totals.	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 10s and 1s; add two amounts of money, beginning to cross into £s

Year 2, Summer Term 1

Wk	Strands	Progression Focus	Weekly Summary
21	NPV Number and place value; MAS Mental addition and subtraction	Place value Week 21 focuses on securing a robust understanding of place value, including adding and subtracting 2-digit numbers by counting on/back in 10s and 1s.	Locate, order and compare 2-digit numbers on 0-100 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
22	MAS Mental addition and subtraction; PRA Problem solving, reasoning and algebra	Addition and subtraction Weeks 22 and 23 focus on using number facts to solve additions and subtractions, including adding several numbers and counting up using complements to the next multiple of 10 to find a difference.	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
23	MAS Mental addition and subtraction	Addition and subtraction Weeks 22 and 23 focus on using number facts to solve additions and subtractions, including adding several numbers and counting up using complements to the next multiple of 10 to find a difference.	Add and subtract 1-digit numbers to and from 2-digit numbers; subtract 2-digit numbers by 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)
24	MEA Measurement; STA Statistics	Measures; statistics and data Week 24 focuses on using non-standard and standard units to measure and compare weights and capacities; and on using this context to revise the use of block graphs.	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
25	MMD Mental multiplication and division; FRP Fractions, ratio and proportion	Multiplication, division and fractions Week 25 focuses on doubling and halving as inverse operations, and relates division to fractions, including finding halves, quarters and thirds of amounts.	Double multiples of 10 and 5 (answers less than 100); double 2-digit numbers ending in 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); spot patterns and make predictions when finding a third of numbers

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Year 2, Summer Term 2

Wk	Strands	Progression Focus	Weekly Summary
26	MAS Mental addition and subtraction; NPV Number and place value; MEA Measurement; PRA Problem solving, reasoning and algebra	Addition and subtraction; money Week 26 focuses on mental addition and subtraction strategies, using number facts and place value; and on using £.p notation and solving money problems.	Count back in 10s and 1s to solve subtraction (not crossing 10s) and check subtraction using addition, beginning to understand that addition undoes subtraction and vice versa; add three or more small numbers using number facts; record amounts of money using £.p notation including amounts with no 10s or 1s; find more than one way to solve a money problem
27	MMD Mental multiplication and division; PRA Problem solving, reasoning and algebra	Multiplication and division Week 27 focuses on relating multiplication and division to 'clever counting' (steps of 2, 3, 5, 10), understanding multiplication as arrays, and solving divisions as missing number problems.	Count in 3s, recognising numbers in the 3 times-table; write multiplications to go with arrays and use arrays to solve multiplication problems; understand that multiplication is commutative and 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 and solve division problems in contexts
28	MEA Measurement	Length; time Week 28 focuses on estimating and measuring lengths in cm; and on telling the time to 5 minutes.	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 5 minutes; begin to say the time 10 minutes later
29	MAS Mental addition and subtraction; MMD Mental multiplication and division; PRA Problem solving, reasoning and algebra	Addition and subtraction; multiplication and division Week 29 focuses on adding by partitioning; finding differences; and on multiplying and dividing by counting in steps.	Partition to add two 2-digit numbers; find the difference between two 2-digit numbers; multiply two numbers using counting in steps of 2, 3, 5 and 10; solve division problems by counting in steps of 2, 3, 5 and 10
30	NPV Number and place value; MAS Mental addition and subtraction	Place value Week 30 focuses on revising place value in 2-digit numbers, and extending to place value in 3-digit numbers.	Compare two 2-digit numbers and find bonds to 100 using thermometers; revise place value in 2-digit numbers, numbers between 100 and 200, and 3-digit numbers (including zeros in the 10s and 1s places)

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Year 3, Autumn Term 1

Wk	Strands	Progression Focus	Weekly Summary
1	MAS Mental addition and subtraction; PRA Problem solving, reasoning and algebra	Addition and subtraction Weeks 1 and 2 focus on revising the understanding and use of place value and number facts in mental addition and subtraction.	Use multiple of 5 and 10 bonds to 100 to solve additions and subtractions; add and subtract 1-digit numbers to and from 2-digit numbers
2	NPV Number and place value; MAS Mental addition and subtraction; PRA Problem solving, reasoning and algebra	Addition and subtraction Weeks 1 and 2 focus on revising the understanding and use of place value and number facts in mental addition and subtraction.	Compare and order 2- and 3- digit numbers; count on and back in 10s and 1s; add and subtract 2-digit numbers; solve problems using place value
3	MMD Mental multiplication and division; PRA Problem solving, reasoning and algebra	Multiplication and division Week 3 focuses on key multiplication and division facts and on doubling and halving.	Know multiplication and division facts for the 5, 10, 2, 4 and 3 times-tables; doubling and halving
4	PRA Problem solving, reasoning and algebra; MEA Measurement; GPS Geometry: properties of shapes; STA Statistics	Time; 3D shapes Week 4 focuses on telling the time with increasing accuracy, and identifying, describing and sorting 3D shapes.	Know and understand the calendar, including days, weeks, months, years; tell the time to the nearest 5 minutes on analogue and digital clocks; know the properties of 3D shapes
5	NPV Number and place value; MAS Mental addition and subtraction; PRA Problem solving, reasoning and algebra	Place value; difference Week 5 focuses on placing 2- and 3-digit numbers on a line and using an empty number line to find differences.	Comparing, ordering and understanding place value of 2- and 3-digit numbers; subtracting from 2-digit numbers; using prediction to estimate calculations

Year 3, Autumn Term 2

Wk	Strands	Progression Focus	Weekly Summary
6	MMD Mental multiplication and division; FRP Fractions, ratio and proportion; PRA Problem solving, reasoning and algebra	Multiplication and division; fractions Week 6 focuses on doubling and halving, and understanding a half and other unit fractions.	Doubling and halving numbers up to 100 using partitioning; understanding fractions and fractions of numbers
7	MEA Measurement; PRA Problem solving, reasoning and algebra; MAS Mental addition and subtraction	Place value in addition and subtraction Week 7 focuses on understanding place value, including in money, and on using partitioning in adding and subtracting.	Use money to add and subtract and record using the correct notation and place value; add and subtract 2-digit numbers using partitioning; add three 2-digit numbers by partitioning and recombining.
8	MEA Measurement; GPS Geometry: properties of shapes	Length; capacity Week 8 focuses on the SI units and measurement of length and capacity.	Choose an appropriate instrument to measure a length and use a ruler to estimate, measure and draw to the nearest centimetre; know 1 litre = 1000 ml; estimate and measure capacity in millilitres
9	NPV Number and place value; MAS Mental addition and subtraction; PRA Problem solving, reasoning and algebra	Place value; difference Week 9 focuses on using number lines to compare and round numbers and to find differences.	Place 2- and 3-digit numbers on a number line; round 3-digit numbers to nearest 100; use counting up to do mental subtractions with answers between 10 and 20, 10 and 30, and either side of 100

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10	<p>MMD Mental multiplication and division; PRA Problem solving, reasoning and algebra; MAS Mental addition and subtraction</p>	<p>Revision</p> <p>Week 10 provides revision of key calculation strategies and their use in word problems.</p>	<p>Revise times-tables learned and derive division facts; perform division with remainders; choose a mental strategy to solve additions and subtractions; solve word problems</p>
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Year 3, Spring Term 1

Wk	Strands	Progression Focus	Weekly Summary
11	NPV Number and place value; MAS Mental addition and subtraction; PRA Problem solving, reasoning and algebra	Place value Week 11 focuses on embedding a thorough understanding of place value and properties of numbers.	Rehearse place value in 3-digit numbers, order them on a number line and find a number in between; compare number sentences; solve additions and subtractions using place value; multiply and divide by 10 (whole number answers); count in steps of 10, 50 and 100.
12	MAS Mental addition and subtraction; MMD Mental multiplication and division; STA Statistics; PRA Problem solving, reasoning and algebra	Addition; times tables Week 12 focuses on using partitioning in addition; and on the 2, 3, 4, 5, 8 and 10 times tables.	Add pairs of 2-digit numbers using partitioning (crossing 10s, 100 or both) and then extend to add two 3-digit numbers (not crossing 1000); recognise and sort multiples of 2, 3, 4, 5, and 10; double the 4 times-table to find the 8 times-table; derive division facts for the 8 times-table; multiply and divide by 4 by doubling or halving twice
13	FRP Fractions, ratio and proportion; PRA Problem solving, reasoning and algebra	Fractions Week 13 focuses on fractions as numbers, finding equivalent fractions, placing fractions on a line, and on fractions as operators, finding fractions of amounts.	Identify $1/2$ s, $1/3$ s, $1/4$ s, $1/6$ s, and $1/8$ s; realise how many of each make a whole; find equivalent fractions; place fractions on a 0 to 1 line; find fractions of amounts
14	GPS Geometry: properties of shapes; GPD Geometry: position and direction; MEA Measurement	Angles; 2D shapes Week 14 focuses on angles, including right angles, measurement of turn, and the ° symbol; and on properties of 2D shapes and finding perimeters.	Recognise right angles and know they are 90°; understand angles are measured in degrees; recognise ° as the symbol for the measurement of degrees; name and list simple properties of 2D shapes; begin to understand and use the term perimeter to mean the length/distance around the edge (border) of a 2D shape; begin to calculate using a ruler; know a right angle is a quarter turn; know 360° is a full turn; begin to understand angles and identify size of angles in relation to 90°
15	NPV Number and place value; MAS Mental addition and subtraction	Addition and subtraction Weeks 15, 16 and 17 focus on the way a secure understanding of place value underpins rounding, mental addition and subtraction, and column methods of addition.	Place 3-digit numbers on empty 100 number lines; begin to place 3-digit numbers on 0-1000 landmarked and empty number lines; round 3-digit numbers to the nearest ten and to the nearest hundred; use counting up as a strategy to perform mental subtraction (Frog); subtract pounds and pence from five pounds; use counting up (Frog) as a strategy to perform mental subtraction of amounts of money; subtract pounds and pence from ten pounds

Year 3, Spring Term 2

Wk	Strands	Progression Focus	Weekly Summary
16	NPV Number and place value; PRA Problem solving, reasoning and algebra; WAS Written addition and subtraction	Addition and subtraction Weeks 15, 16 and 17 focus on the way a secure understanding of place value underpins rounding, mental addition and subtraction, and column methods of addition.	Understand place-value in 3-digit numbers; separate 3-digit numbers into hundreds, tens, and ones; add two 3-digit numbers using vertical written addition (expanded); add 2- and 3- digit numbers using vertical written addition (expanded)
17	MAS Mental addition and subtraction; WAS Written addition	Addition and subtraction Weeks 15, 16 and 17 focus on the way a secure understanding of place value underpins rounding,	Add two 2-digit numbers mentally; add 2-digit to 3-digit numbers mentally using place value and rounding; add two 3-digit numbers using expanded written method (answers under 1000); begin to move tens and hundreds moving towards formal written addition; add two 3-digit numbers using

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18	and subtraction; PRA Problem solving, reasoning and algebra MEA Measurement	mental addition and subtraction, and column methods of addition. Time Week 18 focuses on time-telling on digital and analogue clocks, and the calculation of time intervals; these are used in solving word problems.	expanded column addition; investigate patterns in numbers when adding them; choose to solve addition using a mental method or expanded column addition (written method) Tell the time to the nearest minute on analogue and digital clocks (minutes past and minutes to); time events in minutes and seconds; find a time after a given interval (not crossing the hour); calculate time intervals; solve word problems involving time
19	NPV Number and place value; MAS Mental addition and subtraction; PRA Problem solving, reasoning and algebra	Place value; subtraction Week 19 focuses on using number lines to facilitate an understanding of place value in 3-digit numbers, and as an efficient method of performing subtraction involving 3-digit numbers.	Order 3-digit numbers and find numbers between; solve subtractions of 3-digit - 3-digit numbers using counting up (Frog); use counting up and counting back as strategies to perform mental subtractions; choose to solve a given subtraction by counting up or counting back
20	MMD Mental multiplication and division; WMD Written multiplication and division; PRA Problem solving, reasoning and algebra	Multiplication and division Week 20 focuses on developing multiplication strategies using doubling and halving and the grid method; division is related to multiplication and this relationship is used to solve missing number problems.	Double and halve numbers up to 100 by partitioning; solve word problems involving doubling and halving; multiply numbers between 10 and 25 by 1-digit numbers using the grid method; divide multiples of 10 by 1-digit numbers using known tables facts; see the relation between multiplication and division

Year 3, Summer Term 1

Wk	Strands	Progression Focus	Weekly Summary
21	MAS Mental addition and subtraction; PRA Problem solving, reasoning and algebra; FRP Fractions, ratio and proportion	Addition and subtraction Week 21 focuses on securing understanding of addition and subtraction and rehearsing sound mental strategies, extending to adding and subtracting fractions.	Add 3-digit and 1-digit numbers mentally, using number facts; subtract 1-digit numbers from 3-digit numbers mentally using number facts; add and subtract multiples of 10 by counting on and back in 10s and using number facts to cross 100s; compare and order fractions with the same denominator; begin to recognise equivalences of 1/2; add and subtract fractions with the same denominator
22	MMD Mental multiplication and division; PRA Problem solving, reasoning and algebra; WMD Written multiplication and division	Multiplication and division Weeks 22 and 23 focus on developing understanding and skills in multiplication and division, including using tables facts to solve scaling problems, multiplications using the grid method, and divisions using chunking.	Use function machines to multiply by 2, 3, 4, 5 and 8 and understand the inverse; use scaling to multiply heights and weights by 2, 4, 8, 5 and 10; use known facts to multiply multiples of 10 by 2, 3, 4 and 5; multiply numbers between 10 and 30 by 3, 4 and 5 using the grid method; multiply 2-digit numbers by 3, 4, 5 and 8 using the grid method
23	MMD Mental multiplication and division; WMD Written multiplication and division	Multiplication and division Weeks 22 and 23 focus on developing understanding and skills in multiplication and division, including using tables facts to solve scaling problems, multiplications using the grid method, and divisions using chunking.	Divide without remainders, just beyond the 12th multiple; division using chunking, with remainders; use the grid method to multiply 2-digit numbers by 3, 4, 5 and 8; begin to estimate products
24	STA Statistics; PRA Problem solving, reasoning and algebra; MEA Measurement	Statistics and data; weight Week 24 focuses on drawing and interpreting pictograms and bar graphs with different scales, and on using these to record and analyse data in the context of measuring weights.	Draw and interpret bar charts and pictograms where one square/symbol represents two units; compare and measure weights in multiples of 100g; know how many grams are in a kilogram; estimate and weigh objects to the nearest 100g; draw and interpret bar charts where one square represents one hundred units

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25	MAS Mental addition and subtraction; WAS Written addition and subtraction; PRA Problem solving, reasoning and algebra	Addition and subtraction Weeks 25, 26 and 27 focus on mental and written addition and subtraction, including mental strategies, column addition, subtracting by counting up, and choosing appropriate methods to solve problems.	Add 3-digit and 2-digit numbers using mental strategies; add two 3-digit numbers using mental strategies or by using column addition; use reasoning, trial and improvement to solve problems involving more complex addition
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Year 3, Summer Term 2

Wk	Strands	Progression Focus	Weekly Summary
26	WAS Written addition and subtraction; MAS Mental addition and subtraction	Addition and subtraction Weeks 25, 26 and 27 focus on mental and written addition and subtraction, including mental strategies, column addition, subtracting by counting up, and choosing appropriate methods to solve problems.	Use column addition to add three 2- and 3-digit numbers together and four 2- and 3-digit numbers together; subtract 3-digit numbers using counting up; solve word problems choosing an appropriate method
27	WAS Written addition and subtraction; MEA Measurement; MAS Mental addition and subtraction; PRA Problem solving, reasoning and algebra	Addition and subtraction Weeks 25, 26 and 27 focus on mental and written addition and subtraction, including mental strategies, column addition, subtracting by counting up, and choosing appropriate methods to solve problems.	Add 3-digit numbers using column addition; solve problems involving measures; solve subtractions of 3-digit numbers using counting up on a line and work systematically to find possibilities; choose an appropriate strategy to solve addition or subtraction
28	GPS Geometry: properties of shapes; MEA Measurement	2D shapes; time Week 28 focuses on developing understanding and vocabulary of shape and angle, including measuring perimeters; and on telling the time 5, 10, 20 minutes later using am/pm and 24-hour clock.	Identify, name and draw horizontal, vertical, perpendicular, parallel and diagonal lines, angles and symmetry in 2D shapes; measure the perimeter of 2D shapes by counting and measuring with a ruler; tell the time on analogue and digital clocks to the minute, begin to tell the time 5, 10, 20 minutes later, recognise am and pm and 24-hour clock times
29	WMD Written multiplication and division; PRA Problem solving, reasoning and algebra; MMD Mental multiplication and division; FRP Fractions, ratio and proportion; DPE Decimals, percentages and their equivalence to fractions	Multiplication and division; fractions Week 29 focuses on consolidating written multiplication and division strategies, securing understanding of the relation between division and fractions, and moving to finding tenths of amounts.	Use the grid method to multiply 2-digit numbers by 3, 4, 5, 6 and 8; estimate products; divide using chunking, with and without remainders; decide whether to use multiplication or division to solve word problems; recognise tenths and equivalent fractions; find one-tenth and several tenths of multiples of 10 and begin to find one-tenth of single-digit numbers
30	MAS Mental addition and subtraction; WAS Written addition and subtraction; PRA Problem solving, reasoning and algebra; WMD Written multiplication and division; MMD Mental multiplication and division	Revision Week 30 focuses on rehearsing and consolidating mental and written calculation skills in addition, subtraction, multiplication and division.	Revise column addition for adding three 3-digit numbers; revise mental strategies for addition; subtract 3-digit numbers using written and mental methods; find change using counting up; check subtraction using addition; multiply numbers between 10 and 40 by 1-digit numbers using grid method; solve division problems just beyond the known tables facts

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Year 4, Autumn Term 1

Wk	Strands	Progression Focus	Weekly Summary
1	MAS Mental addition and subtraction; PRA Problem solving, reasoning and algebra	Addition and subtraction Weeks 1 and 2 focus on mental strategies in addition and subtraction, including the use of a robust understanding of place value.	Finding pairs with a total of 100; adding to the next multiple of 100 and subtracting to the previous multiple of 100; subtract by counting up to find a difference; adding several numbers
2	NPV Number and place value; MAS Mental addition and subtraction	Addition and subtraction Weeks 1 and 2 focus on mental strategies in addition and subtraction, including the use of a robust understanding of place value.	Read, write 4-digit numbers and know what each digit represents; compare 4-digit numbers using < and > and place on a number line; add 2-digit numbers mentally; subtract 2-digit and 3-digit numbers
3	MMD Mental multiplication and division; PRA Problem solving, reasoning and algebra; WMD Written multiplication and division; FRP Fractions, ratio and proportion	Multiplication and division Week 3 focuses on learning and using multiplication and division facts in solving more advanced problems.	Learn \times and \div facts for the 6 and 9 times-table and identify patterns; multiply multiples of 10 by single-digit numbers; multiply 2-digit numbers by single-digit numbers (the grid method); find fractions of amounts
4	MEA Measurement; DPE Decimals, percentages and their equivalence to fractions	Time; length Week 4 focuses on telling the time, calculating time intervals and using m, cm and mm in the measurement of lengths.	Tell and write the time to the minute on analogue and digital clocks; calculate time intervals; measure in metres, centimetres and millimetres; convert lengths between units; record using decimal notation
5	WAS Written addition and subtraction	Addition and subtraction Week 5 focuses on understanding and using formal written methods of addition and subtraction.	Add two 3-digit numbers using column addition; subtract a 3-digit number from a 3-digit number using an expanded column method (decomposing only in one column)

Year 4, Autumn Term 2

Wk	Strands	Progression Focus	Weekly Summary
6	MMD Mental multiplication and division; PRA Problem solving, reasoning and algebra; FRP Fractions, ratio and proportion	Fractions and decimals; addition Weeks 6 and 7 focus on fractions and decimals, and end by using place value in formal addition.	Double 3-digit numbers and halve even 3-digit numbers; revise unit fractions; identify equivalent fractions; reduce a fraction to its simplest form; count in fractions (each fraction in its simplest form)
7	DPE Decimals, percentages and their equivalence to fractions; NPV Number and place value; WAS Written addition and subtraction; MAS Mental addition and subtraction	Fractions and decimals; addition Weeks 6 and 7 focus on fractions and decimals, and end by using place value in formal addition.	Look at place value in decimals and the relationship between tenths and decimals; add two 4-digit numbers; practise written and mental addition methods; use vertical addition to investigate patterns
8	DPE Decimals, percentages and their equivalence to fractions; MEA Measurement; STA Statistics; PRA Problem solving, reasoning and algebra	Measures; data Week 8 focuses on using SI units in measuring, reading scales and collecting, interpreting and recording data.	Convert multiples of 100 g into kilograms; convert multiples of 100 ml into litres; read scales to the nearest 100 ml; estimate capacities; draw bar charts, record and interpret information
9	NPV Number and place value; WAS Written addition and subtraction; MAS Mental addition and subtraction	Subtraction Week 9 focuses on using place value to underpin an understanding of different methods in subtraction and to choose between these.	Round 4-digit numbers to the nearest: 10, 100 and 1000; subtract 3-digit numbers using the expanded written version and the counting up mental strategy and decide which to use

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10	<p>MMD Mental multiplication and division; WMD Written multiplication and division; PRA Problem solving, reasoning and algebra</p>	<p>Multiplication and division</p> <p>Week 10 focuses on developing a knowledge and understanding of multiplication and division to enable children to tackle harder problems.</p>	<p>Use the grid method to multiply 3-digit by single-digit numbers and introduce the vertical algorithm; begin to estimate products; divide numbers (up to 2 digits) by single-digit numbers with no remainder, then with a remainder</p>
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Year 4, Spring Term 1

Wk	Strands	Progression Focus	Weekly Summary
11	<p>NPV Number and place value; PRA Problem solving, reasoning and algebra</p>	<p>Place value; addition and subtraction</p> <p>Week 11 focuses on ensuring a robust understanding of place value and numbers to 10,000, including counting in equal steps; this understanding is then used to underpin mental addition and subtraction.</p>	<p>Place 4-digit numbers on landmarked lines; 0–10 000 and 1000–2000; round 4-digit numbers to the nearest 10, 100 and 1000; mentally add and subtract to/from 4-digit and 3-digit numbers using place-value; count on and back in multiples of 10, 100 and 1000; count on in multiples of 25 and 50; add and subtract multiples of 10 and 100 to/from 4-digit numbers</p>
12	<p>WAS Written addition and subtraction; MMD Mental multiplication and division; WMD Written multiplication and division; PRA Problem solving, reasoning and algebra; MEA Measurement</p>	<p>Subtraction; multiplication</p> <p>Week 12 focuses on written calculation methods underpinned by a secure understanding of place value: vertical subtraction and multiplication methods, and multiplication problems involving money.</p>	<p>Use expanded written subtraction and compact written subtraction to subtract pairs of 3-digit numbers (one ‘exchange’); use expanded column subtraction and compact column subtraction to subtract pairs of 3-digit and 2-digit numbers from 3-digit numbers (one ‘carry’); learn the 7× table and ‘tricky’ facts; use the vertical algorithm to multiply 3-digit numbers by 1-digit numbers; solve simple money problems with decimals to two decimal places</p>
13	<p>MMD Mental multiplication and division; FRP Fractions, ratio and proportion; PRA Problem solving, reasoning and algebra</p>	<p>Division; fractions</p> <p>Week 13 focuses on mental multiplication and division strategies, which underpin the work on proper fractions that follows, including finding non-unit fractions of amounts, equivalent fractions and simplifying.</p>	<p>Use mental multiplication and division strategies; find non-unit fractions of 2-digit and 3-digit numbers; find equivalent fractions and use them to simplify fractions (halves, thirds, quarters)</p>
14	<p>GPS Geometry: properties of shapes; PRA Problem solving, reasoning and algebra</p>	<p>2D shapes</p> <p>Week 14 focuses on properties of 2D shapes, including angles, parallel and perpendicular lines, and symmetry.</p>	<p>Recognise and compare acute, right and obtuse angles; draw lines of a given length; identify perpendicular and parallel lines; recognise and draw line symmetry in shapes; sort 2D shapes according to their properties; draw shapes with given properties and explain reasoning; draw the other half of symmetrical shapes</p>
15	<p>MMD Mental multiplication and division; WMD Written multiplication and division; MAS Mental addition and subtraction; PRA Problem solving, reasoning and algebra</p>	<p>Mental calculation strategies</p> <p>Week 15 focuses on the relationship between the operations, particularly multiplication and division, and then between addition and subtraction; these important inverse relationships are linked to mental calculation.</p>	<p>Understand how to divide 2-digit and 3-digit numbers by 1-digit numbers using place value and mental strategies; divide numbers by 1-digit numbers to give answers between 10 and 25, with remainders; identify factor pairs and use these to solve multiplications and divisions with larger numbers; use Frog to find complements to multiples of 1000; use Frog to find change from £10, £20 and £50</p>

Year 4, Spring Term 2

Wk	Strands	Progression Focus	Weekly Summary
16	<p>DPE Decimals, percentages and their equivalence to fractions; NPV Number and place value; PRA Problem solving, reasoning</p>	<p>Place value</p>	<p>Recognise, use, compare and order decimal numbers; understand place value in decimal numbers; recognise that decimals are tenths; round decimal numbers to the nearest whole number; divide 2-digit numbers by 10 to get decimal numbers; multiply decimal numbers by 10 to get 2-digit</p>

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	and algebra; WAS Written addition and subtraction	Week 16 focuses on ensuring a robust understanding of that place value in decimal numbers.	numbers; divide 3-digit multiples of ten by 100 to get decimal numbers; multiply decimal numbers by 100 to get 3-digit multiples of ten; add four digit numbers using written method with answers greater than 10 000
17	MAS Mental addition and subtraction; WAS Written addition and subtraction; MEA Measurement; PRA Problem solving, reasoning and algebra	Addition and subtraction Week 17 focuses on using understanding of place value to choose appropriate strategies when calculating with decimals or money; written methods then include larger whole numbers.	Add amounts of money using written methods and mentally using place value and number facts; choose to add using the appropriate strategy: mental or written; subtract, choosing appropriate mental strategies: counting up or taking away (using counting back, place value or number facts); solve subtractions using a suitable written method (column subtraction)
18	MEA Measurement; PRA Problem solving, reasoning and algebra	Time; length Week 18 focuses on time-telling and the 24-hour clock, including calculating time intervals; the week ends with some practice in finding missing lengths in rectilinear shapes.	Tell the time on a 24 hour clock, using am and pm correctly; convert pm times to 24 hour clock and vice versa; use 24 hour clock in calculating intervals of time; measure and calculate perimeters of rectilinear shapes where each side is labelled in cm and m; find missing lengths in rectilinear composite shapes; find the perimeters of rectilinear shapes with some lengths not marked; convert from one unit of length to another; solve word problems involving lengths including those involving perimeters
19	NPV Number and place value; WAS Written addition and subtraction; MAS Mental addition and subtraction	Subtraction Week 19 focuses on using understanding of place value to solve subtraction problems using appropriate methods.	Understand place value in 4-digit numbers; partition 4-digit numbers; solve subtraction of 4-digit numbers using column subtraction (decomposition); choose an appropriate method to solve subtractions, either mental or written, and either column or counting up (Frog)
20	WMD Written multiplication and division; PRA Problem solving, reasoning and algebra; MAS Mental addition and subtraction; WAS Written addition and subtraction	Multiplication and division Week 20 focuses on developing a good understanding of the processes involved in more complex written algorithms for multiplication and division.	Use the vertical algorithm to multiply 3-digit numbers by 1-digit numbers; explore patterns; use mental strategies and tables facts to divide 2-digit and 3-digit numbers by 1-digit numbers to give answers between 10 and 35, without remainders; solve word problems

Year 4, Summer Term 1

Wk	Strands	Progression Focus	Weekly Summary
21	NPV Number and place value; PRA Problem solving, reasoning and algebra	Place value and decimals Weeks 21 and 22 focus on consolidating place value in 4- and 5-digit numbers, extending to decimals; including multiplying and dividing by 10 and 100, placing numbers (including negative) on lines, and adding and subtracting powers of 10.	Read, write and compare 4-digit numbers and place on a line; find 1000 more or less than any given number; read, write and compare 5-digit numbers; recognise what each digit represents in a 5-digit number; read, use and compare negative numbers in the context of temperature
22	MAS Mental addition and subtraction; DPE Decimals, percentages and their equivalence to fractions	Place value and decimals Weeks 21 and 22 focus on consolidating place value in 4- and 5-digit numbers, extending to decimals; including multiplying and dividing by 10 and 100, placing numbers (including negative) on lines, and adding and subtracting powers of 10.	Multiply and divide numbers by 10 and 100 including decimals (tenths and hundredths); read and write decimals (to 1 and 2 places), understanding that these represent parts (tenths and hundredths) of numbers; mark 1- and 2- place decimals on a line; count in tenths (0.1s) and hundredths (0.01s); multiply numbers with up to 2 decimal places by 10 and 100, and divide numbers by 10 and 100; say the number one tenth and one hundredth more or less than a given number; round decimal numbers to the nearest whole number
23	MMD Mental multiplication and division; PRA Problem solving, reasoning and algebra; NPV Number and place value; WMD Written	Multiplication and division Week 23 focuses on extending knowledge of times tables, using this to develop understanding of harder	Learn 11 and 12× tables; develop and use effective mental multiplication strategies; use a vertical written method to multiply 3-digit numbers by 1-digit numbers; use rounding to estimate answers; use a written method to multiply 3-digit numbers, including amounts of money by 1-digit numbers; multiply 2-digit and 3-digit numbers by 1-digit numbers;

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<p>multiplication and division; MEA Measurement</p>	<p>written multiplication algorithms; and on division as the inverse of multiplication.</p>	<p>understand how division ‘undoes’ multiplication and vice versa; divide above the tables facts using multiples of 10</p>
<p>24 NPV Number and place value; MEA Measurement; GPS Geometry: properties of shapes</p>	<p>Area and perimeter; 2D and 3D shapes Week 24 focuses on calculating perimeters and areas of shapes, and on properties of 2D and 3D shapes.</p>	<p>Recognise and read Roman numerals to 100; begin to know the history of our number system including 0; calculate area and perimeter of rectilinear shapes using multiplication and addition, or counting; recognise, name and classify 2D shapes identifying regular and irregular polygons; sort 2D shapes according to properties including types of quadrilaterals and triangles; revise 3D shapes, consider 2D-shaped sides on 3D shapes, and sort shapes</p>
<p>25 DPE Decimals, percentages and their equivalence to fractions; PRA Problem solving, reasoning and algebra; FRP Fractions, ratio and proportion</p>	<p>Fractions and decimals Week 25 focuses on developing and enhancing the concept of decimal number, including relating decimal fractions to proper fractions and recognising equivalents.</p>	<p>Understand, read and write 2-place decimals; compare 2-place decimals in the context of lengths; add and subtract 0.1 and 0.01 and say a number one-tenth (0.1) or one-hundredth (0.01) more or less than a given number; revise equivalent fractions; write fractions with different denominators with a total of 1; recognise decimal and fraction equivalents</p>

Year 4, Summer Term 2

Wk	Strands	Progression Focus	Weekly Summary
26	<p>MAS Mental addition and subtraction; MMD Mental multiplication and division; WMD Written multiplication and division; PRA Problem solving, reasoning and algebra</p>	<p>Addition and subtraction; multiplication and division Week 26 focuses on adding and subtracting 2-, 3- and 4- digit numbers; and on using knowledge of factors, products and doubling to solve multiplication problems mentally.</p>	<p>Add two 2-digit numbers or a 2-digit number to a 3- or 4-digit number mentally; subtract 2-, 3- and 4-digit numbers using counting up; derive factors of 2-digit numbers and use factors and doubling to solve multiplication mentally; solve integer scaling problems using mental strategies and spot a relationship between products; solve correspondence problems, using a systematic approach and calculate using mental multiplication strategies</p>
27	<p>WAS Written addition and subtraction; PRA Problem solving, reasoning and algebra; MAS Mental addition and subtraction</p>	<p>Addition and subtraction Week 27 focuses on addition and subtraction using written column methods.</p>	<p>Solve written addition of two 4-digit numbers; add amounts of money (pounds and pence) using column addition; solve 4-digit minus 4-digit and 4-digit minus 3-digit subtractions using written column method (decomposition) and check subtraction with addition; solve word problems choosing an appropriate method</p>
28	<p>GPD Geometry: position and direction; STA Statistics</p>	<p>Coordinate geometry; statistics and data Week 28 focuses on using coordinate grids; and developing that understanding to draw line graphs and know that intermediate points have meaning.</p>	<p>Use coordinates to draw polygons; find the coordinates of shapes after translation; draw and interpret bar charts and pictograms; draw line graphs and understand that intermediate points have meaning</p>
29	<p>WMD Written multiplication and division; PRA Problem solving, reasoning and algebra; MMD Mental multiplication and division; FRP Fractions, ratio and proportion; DPE Decimals, percentages and their equivalence to fractions</p>	<p>Multiplication and division; fractions Weeks 29 and 30 focus on enhancing mental and written strategies for multiplication and division; and link this to unit and non-unit fractions and the decimal results of dividing by 10 and 100.</p>	<p>Use the vertical algorithm (ladder) to multiply 3-digit numbers by 1-digit numbers; find non-unit fraction of amounts, using ‘chunking’; add fractions with like denominators, including totals greater than 1; divide by 10 and 100 (to give answers with 1 and 2 decimal places)</p>
30	<p>MMD Mental multiplication and division; PRA Problem solving, reasoning and algebra; WMD Written multiplication and division; FRP Fractions, ratio and proportion</p>	<p>Multiplication and division; fractions Weeks 29 and 30 focus on enhancing mental and written strategies for multiplication and division; and link this to unit and non-unit fractions and the decimal results of dividing by 10 and 100.</p>	<p>Multiply 2-digit numbers by 11 and 12; look for patterns and write rules; multiply 2-digit numbers by numbers between 10 and 20 using the grid method; begin to use the grid method to multiply pairs of 2-digit numbers; use mental strategies and tables facts to divide 2-digit and 3-digit numbers by 1-digit numbers to give answers between 20 and 50, with and without remainders; find non-unit fractions of amounts</p>

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Subject: Maths (Abacus)

Year 5, Autumn Term 1

Wk	Strands	Progression Focus	Weekly Summary
1	NPV Number and place value; WAS Written addition and subtraction; PRA Problem solving, reasoning and algebra	Addition and subtraction Weeks 1 and 2 focus on establishing a robust understanding of place value and using this in the development of addition and subtraction calculation strategies.	Read, write, compare and order 5-digit numbers, understanding the place value and using < and > signs; add and subtract multiples of 10, 100 and 1000 to and from 5-digit numbers; use written addition to add two 4-digit numbers; work systematically to spot patterns.
2	MAS Mental addition and subtraction; NPV Number and place value	Addition and subtraction Weeks 1 and 2 focus on establishing a robust understanding of place value and using this in the development of addition and subtraction calculation strategies.	Add and subtract 2- 3- and 4-digit numbers mentally; choose a strategy for solving mental additions or subtractions; solve word problems
3	DPS Decimals, percentages and their equivalence to fractions; PRA Problem solving, reasoning and algebra; MMD Mental multiplication and division	Decimals; multiplication and division Week 3 focuses on multiplying and dividing to get decimal numbers, and then on mental strategies in multiplication and division.	Understand place value in decimal numbers; multiply and divide numbers with up to two decimal places by 10 and 100; multiply and divide by 0 and 100; add and subtract 0.1 and 0.01; multiply and divide by 4 by doubling or halving twice; use mental multiplication strategies to multiply by 20, 25 and 9
4	MEA Measurement	Time; length Week 4 focuses on calculating time intervals and on measuring lengths in cm and mm including perimeters.	Revise converting 12-hour clock times to 24-hour clock times; find a time a given number of minutes or hours and minutes later; calculate time intervals using 24-hour clock format; measure lengths in mm and convert to cm; find perimeters in cm and convert cm to m
5	WAS Written addition and subtraction; MAS Mental addition and subtraction	Subtraction Week 5 focuses on using formal written subtraction and counting up as appropriate, including when finding change.	Solve subtraction using a written method for 3-digit – 3-digit numbers and for 4-digit numbers; use counting up (Frog) as a strategy to perform mental subtraction; find change from a multiple of ten pounds using counting up

Year 5, Autumn Term 2

Wk	Strands	Progression Focus	Weekly Summary
6	MMD Mental multiplication and division; FRP Fractions, ratio and proportion	Multiplication and division; fractions Weeks 6 and 7 focus on multiplication and division, and extend children’s understanding of fractions.	Recognise which numbers are divisible by 2, 3, 4, 5, 6, 9 and 25 and identify multiples; find factors; recording results systematically and finding all factors of a given number; compare and place fractions on a line; find equivalent fractions and reduce them to their simplest form
7	MMD Mental multiplication and division; WMD Written multiplication and division; PRA Problem solving, reasoning and algebra	Multiplication and division; fractions Weeks 6 and 7 focus on multiplication and division, and extend children’s understanding of fractions.	Use mental strategies to multiply and divide multiples of 10 and 100; use a written method to multiply 3-digit and 4-digit numbers by 1-digit numbers and estimate answers, divide 3-digit numbers by 1-digit numbers using a written method and express remainders as a fraction and solve division word problems
8	GPS Geometry: properties of shapes; PRA Problem solving, reasoning and algebra	Angles Week 8 focuses on the concept of angles as degrees of ‘turn’, and on comparison, identification and measurement of angles.	Use a protractor to measure and draw angles in degrees; recognise, use terms and classify angles as obtuse, acute and reflex; recognise that angles on a line total 180° and angles round a point total 360°; identify and name parts of a circle including diameter, radius and circumference; draw circles to a given radius using a pair of compasses; relate angles to turns, and recognise that a 360° angle is a complete turn; use angle facts to solve problems related to turn

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9	NPV Number and place value; DPE Decimals, percentages and their equivalence to fractions; FRP Fractions, ratio and proportion	Whole numbers, decimals and fractions Week 9 focuses on comparing and ordering whole numbers and decimals, and on equivalence in relation to proper fractions and decimals.	Place numbers to 100 000 and decimals up to two places on a line, round numbers to the nearest 10, 100 and 1000 and decimals up to two places to the nearest whole number; compare and order numbers with up to two decimal places; reduce fractions to their simplest form; know and recognise equivalent fractions and decimals to half, tenths and fifths
10	MAS Mental addition and subtraction; WAS Written addition and subtraction; MMD Mental multiplication and division; WMD Written multiplication and division; PRA Problem solving, reasoning and algebra	Revision Week 10 provides in-depth revision of the four operations, including calculation strategies and the inverse relation between addition and subtraction, multiplication and division.	Revise mental and written addition and subtraction strategies, choose to use a mental strategy or written method to solve addition and subtraction, choose to solve word problems involving multiplication and division questions including 2- and 3-digit by 1-digit and 2-digit by 2-digit using a mental or a written method, use mathematical reasoning to work out a function, identify the operation being used on numbers, understand that addition and subtraction are inverse operations multiplication and division, use function machines

Year 5, Spring Term 1

Wk	Strands	Progression Focus	Weekly Summary
11	NPV Number and place value; DPE Decimals, percentages and their equivalence to fractions; PRA Problem solving, reasoning and algebra	Place value Week 11 focuses on developing a robust understanding of place value in larger whole numbers and in decimals; this is used to enable children to round any number to the nearest required power of ten.	Read, write and order numbers with up to 6 digits and understand the place value of each digit; place 6-digit numbers on a number line and find numbers between; solve place-value additions and subtractions with 6-digit numbers; understand place value in decimal numbers as tenths and hundredths; multiply and divide by 10/100/1000 using a place-value grid; understand place value in decimal numbers to 2-decimal places; place decimal numbers on a line; round two-place decimal numbers to nearest tenth and whole number; say the number a tenth or a hundredth more
12	MAS Mental addition and subtraction; PRA Problem solving, reasoning and algebra; WAS Written addition and subtraction	Addition and subtraction Week 12 focuses on the rehearsal and development of mental calculation strategies for addition and subtraction.	Rehearse mental addition strategies for decimals and whole numbers; use counting on as a strategy to perform mental addition of 2-place decimals to the next whole number; solve missing number sentences; use mental strategies to solve multi-step word problems; use counting up as a strategy to perform written subtraction (Frog)
13	MMD Mental multiplication and division; NPV Number and place value; PRA Problem solving, reasoning and algebra	Multiplication and division Week 13 focuses on the rehearsal and development of mental calculation strategies for multiplication and division, and on identifying patterns and rules.	Use rules of divisibility to find if numbers are divisible by 2, 3, 4, 5, 9 and 10; identify prime numbers; revise finding factors of numbers; find squares and square roots of square numbers; finding patterns and making and testing rules; use mental multiplication and division strategies; relate mental division strategies to multiples of ten of the divisor
14	PRA Problem solving, reasoning and algebra; GPS Geometry: properties of shapes; MEA Measurement; STA Statistics	2D shapes; measures Week 14 focuses on exploring the properties of triangles, naming and identifying the different types; and then on SI units of measure, reading scales and conversion problems.	Know properties of equilateral, isosceles, scalene and right-angled triangles; find that angles in a triangle have a total of 180°; sort triangles according to their properties; use scales to weigh amounts to the nearest half interval; convert from grams to kilograms and vice versa, from millilitres to litres and vice versa, and from metres to kilometres and vice versa; read scales to the nearest half division; understand that we measure distance in kilometres and miles; use ready reckoning to give approximate values of miles in kilometres and vice versa; draw line conversion graphs
15	WAS Written addition and subtraction; PRA Problem solving, reasoning and algebra; MEA Measurement	Addition and subtraction Week 15 focuses on column addition of decimal numbers, and on mental subtraction of decimal numbers.	Use a written column method to add amounts of money in pounds and pence; add 2-place decimals using written column addition; subtract decimal numbers using counting up (Frog)

George Fentham Subject Leader Curriculum Map

Subject: Maths (Abacus)

Year 5, Spring Term 2

Wk	Strands	Progression Focus	Weekly Summary
16	WMD Written multiplication and division	Multiplication and division Weeks 16 and 17 focus on the development of written methods for multiplication and division; division is linked to finding fractions of large amounts.	Use a written method (grid) to multiply pairs of 2-digit numbers; use short division to divide 3-digit numbers by 1-digit numbers, including those which leave a remainder
17	WMD Written multiplication and division; FRP Fractions, ratio and proportion	Multiplication and division Weeks 16 and 17 focus on the development of written methods for multiplication and division; division is linked to finding fractions of large amounts.	Find unit fractions and non-unit fractions of 3-digit numbers; use short multiplication to multiply 3-digit numbers by 1-digit numbers; begin to use short multiplication to multiply 4-digit numbers by 1-digit numbers
18	GPS Geometry: properties of shapes; PRA Problem solving, reasoning and algebra; MEA Measurement	2D shapes; angles; measures Week 18 focuses on developing understanding of polygons and angles, particularly in relation to quadrilaterals; metric units are then revised and regularly used imperial units are taught.	Understand what a polygon is; draw polygons using dotted square and isometric paper; revise terms obtuse, acute and reflex angles, perpendicular and parallel sides; recognise quadrilaterals as polygons and identify their properties; classify quadrilaterals; draw regular polygons and explore their properties; revise metric units of weight, capacity and length; understand that we can measure in imperial units and relate these to their instances in daily life
19	FRP Fractions, ratio and proportion; PRA Problem solving, reasoning and algebra	Fractions Week 19 focuses on revising proper fractions and equivalent fractions, and then moves on to mixed numbers and improper fractions; proper fractions are multiplied by whole numbers.	Place mixed numbers on lines; count up in fractions using equivalence; convert improper fractions to mixed numbers and vice versa; write improper fractions as mixed numbers and vice versa; multiply proper fractions by whole numbers
20	WAS Written addition and subtraction; PRA Problem solving, reasoning and algebra	Addition and subtraction Week 20 focuses on rehearsing column subtraction and extending to larger / more difficult numbers; column addition and subtraction are used to solve problems.	Solve subtraction of 4-digit numbers using written column subtraction (decomposition); add several numbers using written column addition; use column to solve problems

Year 5, Summer Term 1

Wk	Strands	Progression Focus	Weekly Summary
21	MAS Mental addition and subtraction; DPE Decimals, percentages and their equivalence to fractions; PRA Problem solving, reasoning and algebra	Addition and subtraction Week 21 focuses on adding and subtracting numbers in the context of money and contextual problems.	Add mentally 2-place decimal numbers in the context of money using rounding; add several small amounts of money using mental methods; mentally subtract amounts of money including giving change; calculate the difference between two amounts using counting up; solve word problems, including 2-step problems, choosing an appropriate method
22	FRP Fractions, ratio and proportion; PRA Problem solving, reasoning and algebra; WMD Written multiplication and division	Fractions; multiplication Week 22 focuses on multiplying and converting fractions; and on short and long multiplication of whole numbers.	Multiply fractions less than 1 by whole numbers, convert improper fractions to whole numbers; use short multiplication to multiply 3-digit and 4-digit numbers by 1-digit numbers; use long multiplication to multiply 2-digit and 3-digit numbers by teens numbers
23	DPE Decimals, percentages and their equivalence to fractions; PRA Problem	Place value and decimals	Read, write and compare decimals to three decimal places, understanding that the third decimal place represents thousandths; multiply and divide numbers by 10, 100 and 1000 using 3-place decimal numbers in the calculations; place 2-place decimals on a number line and round them to the nearest tenth and

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	solving, reasoning and algebra; NPV Number and place value	Week 23 focuses on place value in decimals, including multiplying and dividing by 10 and 100.	whole number; read, write, order and compare 3-place decimal numbers; understand and use negative numbers in the context of temperature
24	GPD Geometry: position and direction; PRA Problem solving, reasoning and algebra; GPS Geometry: properties of shapes	Coordinate geometry; 2D and 3D shapes Week 24 focuses on plotting, reflecting and translating shapes on coordinate grids; and on extending understanding of properties of 2D and 3D shapes.	Read and mark co-ordinates in the first two quadrants; draw simple polygons using co-ordinates; translate simple polygons by adding to and subtracting from the co-ordinates; reflect simple shapes in the y axis or in a line, noting the effect on the co-ordinates; translate simple shapes and note what happens to the co-ordinates; draw regular and irregular 2D shapes using given dimensions and angles; use the properties of 2D shapes, including rectangles, to derive related facts; identify 3D shapes from 2D representations; create 3D shapes using 2D nets and draw 3D shapes
25	WAS Written addition and subtraction; PRA Problem solving, reasoning and algebra	Addition and subtraction Week 25 focuses on written methods of addition and subtraction, and choosing efficient strategies to solve problems.	Add 5-digit numbers using written column addition; subtract 5-digit numbers using written method (decomposition); check answers to subtractions using written column addition; solve subtractions of 4- and 5-digit numbers using written column subtraction or number line counting up

Year 5, Summer Term 2

Wk	Strands	Progression Focus	Weekly Summary
26	MMD Mental multiplication and division; PRA Problem solving, reasoning and algebra; FRP Fractions, ratio and proportion	Multiplication and division and fractions Weeks 26 and 27 focus on factors and multiples; on securing the concept of equivalent fractions to enable calculations with fractions; and on further developing written methods of multiplication and division.	Identify factors and multiples, find factor pairs; revise equivalent fractions; compare and order fractions with related denominators; add fractions with same or related denominators, then convert answer into a mixed number; subtract fractions with same and related denominators, revise multiplying fractions by whole numbers
27	WMD Written multiplication and division	Multiplication and division and fractions Weeks 26 and 27 focus on factors and multiples; on securing the concept of equivalent fractions to enable calculations with fractions; and on further developing written methods of multiplication and division.	Use short division to divide 3-digit numbers by 1-digit numbers and 4-digit numbers by 1-digit numbers, including those which leave a remainder; express a remainder as a fraction; use long multiplication to multiply 3-digit and 4-digit numbers by teens numbers
28	PRA Problem solving, reasoning and algebra; MEA Measurement	Area and perimeter; volume Week 28 focuses on calculating areas, perimeters and volumes, and understanding the difference between measurement in one, two and three dimensions.	Find the area and perimeter of squares and rectangles by calculation and pursue a line of enquiry; estimate and find the area of irregular shapes; calculate the perimeter and area of composite shapes; use the relations of area and perimeter to find unknown lengths; begin to understand the concept of volume; find the volume of a cube or cuboid by counting cubes; understand volume as measurement in three dimensions; relate volume to capacity; recognise and estimate volumes
29	DPE Decimals, percentages and their equivalence to fractions; FRP Fractions, ratio and proportion; NPV Number and place value	Fractions, decimals and percentages Week 29 focuses on understanding percentages and how they relate to fractions and decimals, and solving problems by finding percentages of amounts.	Understand what percentages are, relating them to hundredths; know key equivalences between percentages and fractions, finding percentages of amounts of money; find equivalent fractions, decimals and percentages; solve problems involving fraction and percentage equivalents; write dates using Roman numerals
30	NPV Number and place value; STA Statistics; MEA Measurement; WMD Written multiplication and division; PRA Problem solving,	Revision Week 30 focuses on revision of: line graphs; calculating time intervals; finding cubes of	Find cubes of numbers to 10; draw and interpret line graphs showing change in temperature over time; begin to understand rate; use timetables using the 24-hour clock and use counting up to find time intervals of several hours and minutes; solve problems involving scaling by simple fractions; use factors to multiply; solve scaling problems involving measure

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reasoning and algebra; **MMD** Mental
multiplication and division

numbers; using factors to multiply; and solving
scaling problems involving fractions and measures.

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Subject: Maths (Abacus)

Year 6, Autumn Term 1

Wk	Strands	Progression Focus	Weekly Summary
1	NPV Number and place value; MMD Mental multiplication and division; DPE Decimals, percentages and their equivalence to fractions; FRP Fractions, ratio and proportion	Place value; addition Weeks 1 and 2 focus on establishing a robust understanding of place value in relation to whole numbers and decimals, which is then used in written methods and mental strategies in addition.	Read, write and compare 6-digit numbers and know what each digit represents; read, write and compare 1-, 2- and 3-place decimal numbers; multiply and divide by 10, 100 and 1000; round decimals to nearest tenth and whole number and place on a number line; convert decimals (up to 3 places) to fractions and vice-versa.
2	MAS Mental addition and subtraction; NPV Number and place value; WAS Written addition and subtraction; DPE Decimals, percentages and their equivalence to fractions; PRA Problem solving, reasoning and algebra	Place value; addition Weeks 1 and 2 focus on establishing a robust understanding of place value in relation to whole numbers and decimals, which is then used in written methods and mental strategies in addition.	Use mental addition strategies to solve additions including decimal numbers; use column addition to add 5-digit numbers, decimal numbers and amounts of money; solve problems involving number up to 3 decimal places, choose an appropriate method to solve decimal addition.
3	PRA Problem solving, reasoning and algebra; MAS Mental addition and subtraction	Algebra Week 3 focuses on algebra – developing the use of trial and improvement methods, knowledge of the order of operations including brackets, and the manipulation of sentences containing unknowns.	Express missing number problems algebraically and find pairs of numbers that satisfy equations involving two unknowns; find missing lengths and angles; understand how brackets can be used in calculation problems; use knowledge of the order of operations to carry out calculations involving the four operations, solve addition and subtraction multi-step problems using knowledge of the order of operations.
4	MEA Measurement; PRA Problem solving, reasoning and algebra; NPV Number and place value	Measures Week 4 focuses on measurement in and conversion of SI and imperial units; it also covers the use of 24-hour clock and calculation of time intervals.	Convert between grams and kilograms, millilitres and litres, millimetres and centimetres, centimetres and metres, metres and kilometres, and miles and kilometres; revise reading the 24-hour clock and convert 12-hour times to 24-hour; read and write Roman numerals; find time intervals using the 24-hour clock.
5	MAS Mental addition and subtraction; WAS Written addition and subtraction; NPV Number and place value; PRA Problem solving, reasoning and algebra	Subtraction Week 5 focuses on mental strategies and written methods in subtracting and the appropriate use of both with whole and decimal numbers, including money.	Use mental addition, column subtraction and Counting up to solve subtractions of amounts of money and word problems; use mathematical reasoning to investigate.
6	MMD Mental multiplication and division; WMD Written multiplication and division; MAS Mental addition and subtraction; PRA Problem solving, reasoning and algebra; NPV Number and place value	Multiplication Week 6 focuses on mental strategies and written methods in multiplying; both long and short multiplication are rehearsed, alongside a range of mental tactics.	Use mental multiplication strategies to multiply by numbers such as 4, 8, 5, 25, 19, 29 and 99; revise using short multiplication to multiply 4-digit numbers by 1-digit numbers and use this to multiply amounts of money; solve word problems involving multiplication including two-step problems and finding change; use long multiplication to multiply 3-digit and 4-digit numbers by teens numbers.

Year 6, Autumn Term 2

Wk	Strands	Progression Focus	Weekly Summary
7	NPV Number and place value; PRA Problem solving, reasoning and algebra; FRP Fractions, ratio and proportion	Negative numbers; fractions	Understand negative numbers; calculate small differences between negative numbers and negative and positive numbers; add and subtract negative numbers; compare fractions with unlike, but related, denominators; correctly use the terms fraction, denominator and

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Subject: Maths (Abacus)

8	<p>MEA Measurement; GPS Geometry: properties of shapes</p>	<p>Week 7 focuses on positive and negative whole numbers, and then comparing, ordering, adding and subtracting fractions, including mixed numbers.</p> <p>Shape, and measurement in relation to shape</p> <p>Week 8 focuses on 2D shapes, their properties, areas, and perimeters, and 3D shapes, their nets, volumes and properties.</p>	<p>numerator; understand what improper fractions and mixed numbers are and add fractions with the same denominator, writing the answer as a mixed number</p> <p>Calculate the perimeter, area and volume of shapes, and know their units of measurement; understand that shapes can have the same perimeters but different areas and vice versa; calculate the area of a triangle using the formula $A = 1/2 b \times h$; find the area of parallelograms using the formula $A = b \times h$; name and describe properties of 3D shapes; systematically find and compare nets for different 3D shapes.</p> <p>Use mental strategies to divide by 2, 4, 8, 5, 20 and 25; find non-unit fractions of amounts; use short division to divide 3- and 4-digit numbers by 1-digit numbers, including those which leave a remainder; express a remainder as a fraction, simplifying where possible.</p>
9	<p>MMD Mental multiplication and division; FRP Fractions, ratio and proportion; WMD Written multiplication and division; PRA Problem solving, reasoning and algebra</p>	<p>Division; fractions and percentages</p> <p>Weeks 9, 10 and 11 focus on division and fractions; children rehearse mental strategies and short division, giving remainders as fractions; fractions are added, subtracted, multiplied and divided; finding percentages is also covered.</p>	<p>Add and subtract unit fractions with different denominators including mixed numbers; use mental strategies to find simple percentages of amounts, including money</p>
10	<p>FRP Fractions, ratio and proportion; PRA Problem solving, reasoning and algebra; DPE Decimals, percentages and their equivalence to fractions</p>	<p>Division; fractions and percentages</p> <p>Weeks 9, 10 and 11 focus on division and fractions; children rehearse mental strategies and short division, giving remainders as fractions; fractions are added, subtracted, multiplied and divided; finding percentages is also covered.</p>	<p>Multiply fractions less than 1 by whole numbers, converting improper fractions to whole numbers; use commutativity to efficiently multiply fractions by whole numbers; divide unit and non-unit fractions by whole numbers; solve word problems involving fractions.</p>
11	<p>FRP Fractions, ratio and proportion</p>	<p>Division; fractions and percentages</p> <p>Weeks 9, 10 and 11 focus on division and fractions; children rehearse mental strategies and short division, giving remainders as fractions; fractions are added, subtracted, multiplied and divided; finding percentages is also covered.</p>	

Year 6, Spring Term 1

Wk	Strands	Progression Focus	Weekly Summary
12	<p>NPV Number and place value; WAS Written addition and subtraction</p>	<p>Place value; subtraction</p> <p>Week 12 focuses on a robust understanding of place value in large numbers, which underpins the subtraction work that follows.</p>	<p>Read and write numbers with up to 7-digits, understanding what each digit represents; work systematically to find out how many numbers round to 5000000; solve subtraction of 5- and 6-digit numbers using written column method (decomposition).</p>
13	<p>DPE Decimals, percentages and their equivalence to fractions; FRP Fractions, ratio and proportion</p>	<p>Multiplication of decimals and fractions</p> <p>Weeks 13 and 14 focus on understanding decimal and proper fractions and their equivalences; calculations including multiplication of these numbers are rehearsed.</p>	<p>Multiply and divide by 10, 100 and 1000; compare and order numbers with up to three decimal places; know common fraction / decimal equivalents; multiply pairs of unit fractions and multiply unit fractions by non-unit fractions</p>
14	<p>MMD Mental multiplication and division; WMD Written multiplication and division;</p>	<p>Multiplication of decimals and fractions</p> <p>Weeks 13 and 14 focus on understanding decimal and proper fractions and their</p>	<p>Use partitioning to mentally multiply 2-digit numbers with one decimal place by whole 1-digit numbers; multiply numbers with two decimal places; use short multiplication to multiply amounts of money; use estimation to check answers to calculations; use long multiplication to multiply 3-digit and 4-digit numbers by numbers between 10 and 30.</p>

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	PRA Problem solving, reasoning and algebra; NPV Number and place value	equivalences; calculations including multiplication of these numbers are rehearsed.	
15	GPS Geometry: properties of shapes; PRA Problem solving, reasoning and algebra	2D shapes; angles Week 15 focuses on 2D shapes, particularly quadrilaterals, in relation to their diagonals and interior angles; circles are also taught, along with relevant terminology.	Name, classify and identify properties of quadrilaterals; explore how diagonal lines can bisect quadrilaterals; understand what an angle is and that it is measured in degrees; know what the angles of triangles, quadrilaterals, pentagons, hexagons and octagons add to and use these facts and mathematical reasoning to calculate missing angles; recognise and identify the properties of circles and name their parts; draw circles using pairs of compasses; draw polygons using a ruler and a protractor
16	MAS Mental addition and subtraction; NPV Number and place value; WAS Written addition and subtraction; PRA Problem solving, reasoning and algebra	Addition and subtraction Week 16 focuses on mental and written addition and subtraction methods, including solving word problems.	Add and subtract numbers using mental strategies; solve addition of 4- to 7-digit numbers using written column addition; identify patterns in the number of steps required to generate palindromic numbers; solve subtraction of 5-, 6- and 7-digit numbers using written column method (decomposition); solve additions and subtractions choosing mental strategies or written procedures as appropriate; read, understand and solve word problems
17	WMD Written multiplication and division; NPV Number and place value; PRA Problem solving, reasoning and algebra	Multiplication and division Week 17 focuses on number patterns involving factors and multiples, and on long division.	Identify common factors and common multiples; understand that a prime number has exactly two factors and find prime numbers less than 100; understand what a composite (non-prime) number is; use long division to divide 3- and 4-digit numbers by 2-digit numbers, giving remainders as a fraction, simplifying where possible

Year 6, Spring Term 2

Wk	Strands	Progression Focus	Weekly Summary
18	MAS Mental addition and subtraction; WAS Written addition and subtraction; PRA Problem solving, reasoning and algebra	Addition and subtraction Week 18 focuses on solving addition and subtraction problems involving money and decimals.	Solve addition and subtraction multi-step problems in shopping contexts, and add and subtract money using column addition and counting up; add and subtract decimal numbers choosing an appropriate strategy, and add decimal numbers with different numbers of places using column addition; use mathematical reasoning to investigate and solve problems, and solve subtractions of decimal numbers with different numbers of places (2-places) using counting up
19	STA Statistics; DPE Decimals, percentages and their equivalence to fractions	Statistics and data Week 19 focuses on data representation and manipulation, including line graphs, pie charts and the use and calculation of averages.	Calculate and understand the mean average; construct and interpret distance/time line graphs where intermediate points have meaning, including conversion line graphs; understand pie charts are a way of representing data using percentages, interpret and construct pie charts
20	GPD Geometry: position and direction; NPV Number and place value; PRA Problem solving, reasoning and algebra; GPS Geometry: properties of shapes	Coordinate geometry; angles Week 20 focuses on position on a 4-quadrant coordinate grid, with polygons being plotted, translated and reflected; the week concludes with angle theorems.	Read and plot coordinates in all four quadrants, draw and translate simple polygons using coordinates and find missing coordinates for a vertex on a polygon; draw and reflect simple polygons in both the x-axis and y-axis using coordinates; find unknown angles around a point, on a line, in a triangle or vertically opposite and in polygons where diagonals intersect
21	WMD Written multiplication and division; PRA Problem solving, reasoning and algebra	Multiplication and division Week 21 focuses on the use of written algorithms in multiplying and dividing large numbers; both long and short versions of these methods are taught.	Multiply 4-digit numbers including those with two decimal places by 1-digit numbers; use long multiplication to multiply 4-digit numbers by numbers between 10 and 30, including those with two decimal places; revise using short division to divide 4-digit by 1-digit and 2-digit numbers including those which leave a remainder, and divide the remainder by the divisor to give a fraction, simplifying where possible, and make approximations; use long division to divide 4-digit by 2-digit numbers, and use a systematic approach to solve problems

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Subject: Maths (Abacus)

22	<p>PRA Problem solving, reasoning and algebra; FRP Fractions, ratio and proportion</p>	<p>Algebra; ratio</p> <p>Week 22 focuses on the use of generalisations and simple formula, including to find the nth term in a sequence; then moves on to ratio.</p>	<p>Generalise a relationship between pairs of numbers, express simple formulae in words, then using letters; describe and continue sequences, generalise to predict the tenth term, begin to generalise a term in a sequence using n to stand for the number of the term in a sequence; describe ratio and use ratio to solve problems; find fractions and simplify ratios</p>
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Year 6, Summer Term 1

Wk	Strands	Progression Focus	Weekly Summary
23	<p>NPV Number and place value; DPE Decimals, percentages and their equivalence to fractions</p>	<p>Revision: place value and decimals</p> <p>Week 23 focuses on revision of place value in large numbers and in decimal fractions.</p>	<p>Revise reading, writing, comparing and ordering numbers with up to seven digits and decimal numbers with up to three decimal places; revise rounding decimal numbers to the nearest tenth and whole number; revise rounding big numbers to the nearest thousand, ten thousand, hundred thousand and million; revise locating a number on a number line marking numbers it lies between; revise comparing and ordering negative numbers including calculating differences between negative numbers and positive and negative numbers</p>
24	<p>NPV Number and place value; MAS Mental addition and subtraction; WAS Written addition and subtraction; DPE Decimals, percentages and their equivalence to fractions; FRP Fractions, ratio and proportion; PRA Problem solving, reasoning and algebra; GPS Geometry: properties of shapes</p>	<p>Revision</p> <p>Week 24 focuses on revision of: mental and written strategies in addition and subtraction; finding percentages; order of operations; and finding unknowns in equations.</p>	<p>Revise adding and subtracting whole numbers and decimal numbers using mental and written methods; revise finding percentages of numbers, converting fractions, decimals and percentages and making comparisons using percentages; revise how brackets can be used in calculation problems, revise the order of operations for calculations involving the four operations; revise solving missing number problems using inverse operations; revise using trial and improvement to solve equations involving one or two unknowns, and find missing lengths and angles</p>
25	<p>MAS Mental addition and subtraction; FRP Fractions, ratio and proportion; WMD Written multiplication and division; MMD Mental multiplication and division; PRA Problem solving, reasoning and algebra; NPV Number and place value</p>	<p>Revision: multiplication and division</p> <p>Weeks 25 and 26 focus on revision of: written algorithms for multiplication and division and mental strategies including the use of factors; finding fractions of amounts; and calculating mean average.</p>	<p>Revise scaling, using mental strategies for multiplying and dividing; revise solving problems involving rate; revise multiplying pairs of 2-digit numbers and finding factors of 2-digit numbers; multiply 3-digit and 4-digit numbers including decimals by whole 1-digit numbers and solve word problems involving multiplication of money and measures; use a systematic approach to solve problems involving multiplication and division, including long multiplication of 3-digit and 4-digit numbers and decimals</p>
26	<p>WMD Written multiplication and division; PRA Problem solving, reasoning and algebra; NPV Number and place value; STA Statistics; GPD Geometry: position and direction</p>	<p>Revision: multiplication and division</p> <p>Weeks 25 and 26 focus on revision of: written algorithms for multiplication and division and mental strategies including the use of factors; finding fractions of amounts; and calculating mean average.</p>	<p>Revise using short division to find unit fractions of amounts, including decimals, and round answers to money problems according to the context; revise using long division to divide 4-digit by 2-digit numbers, giving remainders as a fraction, simplifying where possible; revise using long division to divide 3-digit and 4-digit numbers by numbers between 10 and 30, writing the fractional part of the answer as a decimal where equivalents are known; revise calculating the mean average; revise reading and marking coordinates in all four quadrants, draw simple polygons and find missing coordinates on a polygon or line</p>

Year 6, Summer Term 2

Wk	Strands	Progression Focus	Weekly Summary
27	<p>NPV Number and place value; FRP Fractions, ratio and proportion; MEA Measurement</p>	<p>Revision: fractions; ratio</p> <p>Week 27 focuses on revision of: equivalence in fractions; and using this to add, subtract, multiply and divide fractions; and solving ratio problems.</p>	<p>Revise equivalence simplifying fractions and changing improper fractions into mixed numbers and vice versa; revise adding and subtracting fractions with different denominators, including those which give answers greater than 1; revise multiplying pairs of fractions and multiplying and dividing fractions by whole numbers; solving problems involving ratios; read intermediate points off scales</p>

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<p>28 GPS Geometry: properties of shapes; MEA Measurement; STA Statistics</p>	<p>Revision Week 28 focuses on revision of: properties of 2D shapes; angle types and theorems; perimeter, area and volume; 24-hour clock time intervals; and tables, graphs and charts.</p>	<p>Revise properties and classification of 2D shapes, drawing 2D shapes using ruler, protractor and compasses, parts of a circle and angles in polygons; revise calculating missing angles by knowing angle facts; use a protractor to measure and draw angles in degrees; identify and name acute, right, obtuse and reflex angles; understand perimeter, area and volume; find the perimeter of rectangles, find the area of rectangles, parallelograms and triangles, and find the volumes of cubes and cuboids; revise reading and interpreting different types of data display</p>
<p>29 NPV Number and place value; PRA Problem solving, reasoning and algebra; GPD Geometry: position and direction; WMD Written multiplication and division</p>	<p>Further mathematical ideas Weeks 29 and 30 focus on exploration of a variety of interesting mathematical concepts and processes, including binary numbers and Napier’s bones; playing with numbers, discovering patterns and solving mathematical puzzles.</p>	<p>Use mathematical reasoning to investigate and solve problems, and to estimate and predict; solve problems using doubling, solve calculations with enormous numbers; find out about famous mathematicians including Brahmagupta and John Napier and use their different methods to multiply; use lattice multiplication to solve multiplications of 2-, 3- and 4-digit numbers; begin to compare historical multiplication methods</p>
<p>30 NPV Number and place value; PRA Problem solving, reasoning and algebra; GPS Geometry: properties of shapes</p>	<p>Further mathematical ideas Weeks 29 and 30 focus on exploration of a variety of interesting mathematical concepts and processes, including binary numbers and Napier’s bones; playing with numbers, discovering patterns and solving mathematical puzzles.</p>	<p>Explore binary numbers; solve mathematical puzzles; including using multiplication facts, find digital roots and look for patterns; explore Fibonacci sequences and Pythagoras’ theorem</p>

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| <p>NPV Number and place value</p> <p>MMD Mental multiplication and division</p> <p>DPE Decimals, percentages and equivalents</p> <p>FRP Fractions, ration & proportion</p> <p>MAS Mental addition & subtraction</p> <p>GPD Geometry: position & direction</p> | <p>WAS Written addition and subtraction</p> <p>PRA Problem solving, reasoning and algebra</p> <p>MEA Measurement</p> <p>WMD Written multiplication and division</p> <p>GPS Geometry: Properties of shapes</p> <p>STA Statistics</p> |
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