| Autumn Term $\mathbf{1}$ |  |  |
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| Wk | Strands | Weekly Summary |
| 1 | Mental addition and subtraction (MAS); <br> Problem solving, reasoning and algebra <br> (PRA) | Use multiple of 5 and 10 bonds to 100 to solve additions and <br> subtractions; add and subtract 1-digit numbers to and from <br> 2-digit numbers |
| 2 | Number and place value (NPV); Mental <br> addition and subtraction (MAS); Problem <br> solving, reasoning and algebra (PRA) | Compare and order 2- and 3- digit numbers; count on and <br> back in 10s and 1s; add and subtract 2-digit numbers; solve <br> problems using place value |
| 3 | Mental multiplication and division (MMD); <br> Problem solving, reasoning and algebra <br> (PRA) | Know multiplication and division facts for the 5, 10, 2, 4 and <br> 3 times-tables; doubling and halving |
| 4 | Problem solving, reasoning and algebra <br> (PRA); Measurement (MEA); Geometry: <br> properties of shapes (GPS); Statistics (STA) | Know and understand the calendar, including days, weeks, <br> months, years; tell the time to the nearest 5 minutes on <br> analogue and digital clocks; know the properties of 3D <br> shapes |
| 5 | Number and place value (NPV); Mental <br> addition and subtraction (MAS); Problem <br> solving, reasoning and algebra (PRA) | Comparing, ordering and understanding place value of 2- <br> and 3-digit numbers; subtracting from 2-digit numbers; using <br> prediction to estimate calculations |


| Autumn Term 2 |  |  |
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| Wk | Strands | Weekly Summary |
| 6 | Mental multiplication and division (MMD); <br> Fractions, ratio and proportion (FRP); <br> Problem solving, reasoning and algebra <br> (PRA) | Doubling and halving numbers up to 100 using partitioning; <br> understanding fractions and fractions of numbers |
| 7 | Measurement (MEA); Problem solving, <br> reasoning and algebra (PRA); Mental <br> addition and subtraction (MAS) | Use money to add and subtract and record using the correct <br> notation and place value; add and subtract 2-digit numbers <br> using partitioning; add three 2-digit numbers by partitioning <br> and recombining. |
| 8 | Measurement (MEA); Geometry: properties <br> of shapes (GPS) | Choose an appropriate instrument to measure a length and <br> use a ruler to estimate, measure and draw to the nearest <br> centimetre; know 1 litre = 1000 ml; estimate and measure <br> capacity in millilitres |
| 9 | Number and place value (NPV); Mental <br> addition and subtraction (MAS); Problem <br> solving, reasoning and algebra (PRA) | Place 2- and 3-digit numbers on a number line; round 3-digit <br> numbers to nearest 100; ; se counting up to do mental <br> subtractions with answers between 10 and 20, 10 and 30, and <br> either side of 100 |
| 10 | Mental multiplication and division (MMD); <br> Problem solving, reasoning and algebra <br> (PRA); Mental addition and subtraction <br> (MAS) | Revise times-tables learned and derive division facts; perform <br> division with remainders; choose a mental strategy to solve <br> additions and subtractions; solve word problems |


| Spring Term 1 |  |  |
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| Wk | Strands | Weekly Summary |
| 11 | Number and place value (NPV); Mental addition and subtraction (MAS); Problem solving, reasoning and algebra (PRA) | 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 | Mental addition and subtraction (MAS); Mental multiplication and division (MMD); Statistics (STA); Problem solving, reasoning and algebra (PRA) | 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 timestable 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 | Fractions, ratio and proportion (FRP); Problem solving, reasoning and algebra (PRA) | Identify $1 / 2 \mathrm{~s}, 1 / 3 \mathrm{~s}, 1 / 4, \mathrm{~s} 1 / 6 \mathrm{~s}$, and $1 / 8 \mathrm{~s}$; realise how many of each make a whole; find equivalent fractions; place fractions on a 0 to 1 line; find fractions of amounts |
| 14 | Geometry: properties of shapes (GPS); Geometry: position and | Recognise right angles and know they are $90^{\circ}$; understand angles are measured in degrees; recognise ${ }^{\circ}$ as the symbol for the measurement |


|  | direction (GPD); Measurement <br> (MEA) | of degrees; name and list simple properties of 2D shapes; begin to <br> understand and use the term perimeter to mean the length/distance <br> around the edge (border) of a 2D shape; begin to calculate using a <br> ruler; know a right angle is a quarter turn; know $360^{\circ}$ is a full turn; <br> begin to understand angles and identify size of angles in relation to $90^{\circ}$ |
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| 15 | Number and place value (NPV); <br> Mental addition and subtraction <br> (MAS) | Place 3-digit numbers on empty 100 number lines; begin to place 3- <br> digit numbers on 0-1000 landmarked and empty number lines; round 3- <br> digit numbers to the nearest ten and to the nearest hundred; use <br> counting up as a strategy to perform mental subtraction (Frog); <br> subtract pounds and pence from five pounds; use counting up (Frog) <br> as a strategy to perform mental subtraction of amounts of money; <br> subtract pounds and pence from ten pounds |


| Spring Term 2 |  |  |
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| Wk | Strands | Weekly Summary |
| 16 | Number and place value (NPV); <br> Problem solving, reasoning and <br> algebra (PRA); Written addition <br> and subtraction (WAS) | Understand place-value in 3-digit numbers; separate 3-digit numbers <br> into hundreds, tens, and ones; add two 3-digit numbers using vertical <br> written addition (expanded); add 2- and 3-digit numbers using vertical <br> written addition (expanded) |
| 17 | Mental addition and subtraction <br> (MAS); Written addition and <br> subtraction (WAS); Problem <br> solving, reasoning and algebra <br> (PRA) | Add two 2-digit numbers mentally; add 2-digit to 3-digit numbers <br> mentally using place value and rounding; add two 3-digit numbers using <br> expanded written method (answers under 1000); begin to move tens <br> and hundreds moving towards formal written addition; add two 3-digit <br> numbers using expanded column addition; investigate patterns in <br> numbers when adding them; choose to solve addition using a mental <br> method or expanded column addition (written method) |
| 18 | Measurement (MEA) | Tell the time to the nearest minute on analogue and digital clocks <br> (minutes past and minutes to); time events in minutes and seconds; find <br> a time after a given interval (not crossing the hour); calculate time <br> intervals; solve word problems involving time |
| 19 | Number and place value (NPV); <br> Mental addition and subtraction <br> (MAS); Problem solving, <br> reasoning and algebra (PRA) | Order 3-digit numbers and find numbers between; solve subtractions of <br> 3-digit - 3-digit numbers using counting up (Frog); use counting up and <br> counting back as strategies to perform mental subtractions; choose to <br> solve a given subtraction by counting up or counting back |
| 20 | Mental multiplication and division <br> (MMD); Written multiplication and <br> division (WMD); Problem solving, <br> reasoning and algebra (PRA) | Double and halve numbers up to 100 by partitioning; solve word <br> problems involving doubling and halving; multiply numbers between 10 <br> and 25 by 1-digit numbers using the grid method; divide multiples of 10 <br> by 1-digit numbers using known tables facts; see the relation between <br> multiplication and division |


| Summer Term 1 |  |  |
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| Wk | Strands | Weekly Summary |
| 21 | Mental addition and subtraction <br> (MAS); Problem solving, <br> reasoning and algebra (PRA); <br> Fractions, ratio and proportion <br> (FRP) | Add 3-digit and 1-digit numbers mentally, using number facts; subtract 1- <br> digit numbers from 3-digit numbers mentally using number facts; add <br> and subtract multiples of 10 by counting on and back in 10s and using <br> number facts to cross 100s; compare and order fractions with the same <br> denominator; begin to recognise equivalences of 1/2; add and subtract <br> fractions with the same denominator |
| 22 | Mental multiplication and division <br> (MMD); Problem solving, <br> (easaning and algebra (PRA); <br> Written multiplication and division <br> (WMD) | Use function machines to multiply by 2, 3, 4, 5 and 8 and understand the <br> inverse; use scaling to multiply heights and weights by 2, 4, 8, 5 and 10; <br> use known facts to multiply multiples of 10 by 2, 3, 4 and 5; multiply <br> numbers between 10 and 30 by 3, 4 and 5 using the grid method; <br> multiply 2-digit numbers by 3, 4, 5 and 8 using the grid method |
| 23 | Mental multiplication and division <br> (MMD); Written multiplication and <br> (divistion (WMD) | Divide without remainders, just beyond the 12th multiple; division using <br> chunking, with remainders; use the grid method to multiply 2-digit <br> numbers by 3, 4,5 and 8; begin to estimate products |
| 24 | Statistics (STA); Problem solving, <br> reasoning and algebra (PRA); <br> Measurement (MEA) | Draw and interpret bar charts and pictograms where one square/symbol <br> represents two units; compare and measure weights in multiples of <br> 100g; know how many grams are in a kilogram; estimate and weigh <br> objects to the nearest 100g; draw and interpret bar charts where one <br> square represents one hundred units |


| 25 | Mental addition and subtraction <br> (MAS); Written addition and <br> subtraction (WAS); Problem <br> solving, reasoning and algebra <br> (PRA) | Add 3-digit and 2-digit numbers using mental strategies; add two 3-digit <br> numbers using mental strategies or by using column addition; use <br> reasoning, trial and improvement to solve problems involving more <br> complex addition |
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| Summer Term 2 |  |  |
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| Wk | Strands | Weekly Summary |
| 26 | Written addition and subtraction (WAS); Mental addition and subtraction (MAS) | Use column addition to add three 2-and 3-digit numbers together and four 2- and 3-digit numbers together; subtract 3digit numbers using counting up; solve word problems choosing an appropriate method |
| 27 | Written addition and subtraction (WAS); Measurement (MEA); Mental addition and subtraction (MAS); Problem solving, reasoning and algebra (PRA) | 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 | Geometry: properties of shapes (GPS); Measurement (MEA) | 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 | Written multiplication and division (WMD); Problem solving, reasoning and algebra (PRA); Mental multiplication and division (MMD); Fractions, ratio and proportion (FRP); Decimals, percentages and their equivalence to fractions (DPE) | 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 | Mental addition and subtraction (MAS); Written addition and subtraction (WAS); Problem solving, reasoning and algebra (PRA); Written multiplication and division (WMD); Mental multiplication and division (MMD) | 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 |

