| Autumn Term |  |  |
| :---: | :---: | :---: |
|  | Strands | Summary |
| 1 | Mental addition and subtraction (MAS) | Use multiple of 5 and 10 bonds to 100 to solve additions and subtractions; add and subtract 1-digit numbers to and from 2digit numbers |
| 2 | Number and place value (NPV); Mental addition and subtraction (MAS) | Compare and order 2-and 3- digit numbers; count on and back in 10s and 1s; add and subtract 2-digit numbers |
| 3 | Mental multiplication and division (MMD) | Know multiplication and division facts for the 5, 10, 2, 4 and 3 times-tables; doubling and halving |
| 4 | Measurement (MEA); Geometry: properties of shapes (GPS) | 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 | Number and place value (NPV); Mental addition and subtraction (MAS); Problem solving, reasoning and algebra (PRA) | Comparing, ordering and understanding place value of 2 - and 3digit numbers; subtracting from 2 - and 3 -digit numbers; using prediction to estimate calculations |
| 6 | Mental multiplication and division (MMD); Fractions, ratio and proportion (FRP) | Doubling and halving numbers up to 100 using partitioning; understanding fractions and fractions of numbers |
| 7 | Measurement (MEA); Mental addition and subtraction (MAS) | 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 | Measurement (MEA) | Choose an appropriate instrument to measure a length and use a ruler to estimate, measure and draw to the nearest centimetre; know 1 litre $=1000 \mathrm{ml}$; estimate and measure capacity in millilitres |
| 9 | Number and place value (NPV); Mental addition and subtraction (MAS) | 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 |
| 10 | Mental multiplication and division (MMD); Mental addition and subtraction (MAS) | Revise times-tables learned and derive division facts; perform division with remainders; choose a mental strategy to solve additions and subtractions; solve word problems |

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|  |  | Strands |
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| 11 | Sumber and place value (NPV); Mental <br> addition and subtraction (MAS) | Rehearse place value in 3-digit numbers, order them on a <br> number line and find a number in between; compare number <br> sentences; solve additions and subtractions using place value; <br> multiply and divide by 10 (whole number answers); count in <br> steps of 10, 50 and 100. |
| 12 | Mental addition and subtraction (MAS); <br> Mental multiplication and division (MMD); <br> Statistics (STA) | Add pairs of 2-digit numbers using partitioning (crossing 10s, <br> 100 or both) and then extend to add two 3-digit numbers (not <br> crossing 1000); recognise and sort multiples of 2, 3, 4, 5, and <br> $10 ;$ double the 4 times-table to find the 8 times-table; derive <br> division facts for the 8 times-table; multiply and divide by 4 by <br> doubling or halving twice |
| 13 | Fractions, ratio and proportion (FRP) | Identify 1/2s, 1/3s, 1/4,s 1/6s, and 1/8s; realise how many of <br> each make a whole; find equivalent fractions; place fractions on <br> a 0 to 1 line; find fractions of amounts |
| 19 | Geometry: properties of shapes (GPS); <br> Geometry: position and direction (GPD); <br> Measurement (MEA) | Recognise right angles and know they are 90; understand <br> angles are measured in degrees; recognise ${ }^{\circ}$ as the symbol for <br> the measurement of degrees; name and list simple properties <br> of 2D shapes; begin to understand and use the term perimeter <br> to mean the length/distance around the edge (border) of a 2D |
| addition and subtraction (MAS) |  |  |

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| Summer Term |  |  |
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|  | Strands | Summary |
| 21 | Mental addition and subtraction (MAS); Written multiplication and division (WMD); Fractions, ratio and proportion (FRP) | 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 10 s and using number facts to cross 100 s ; compare and order fractions with the same denominator; begin to recognise equivalences of $1 / 2$; add and subtract fractions with the same denominator |
| 22 | Mental multiplication and division (MMD); Written multiplication and division (WMD) | 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 | Mental multiplication and division (MMD); Written multiplication and division (WMD) | 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 | Statistics (STA); Measurement (MEA) | Draw and interpret block graphs and pictograms where one square/symbol represents two units; compare and measure weights in multiples of 100 g ; know how many grams are in a kilogram; estimate and weigh objects to the nearest 100 g ; draw and interpret bar charts where one square represents one hundred units |
| 25 | Mental addition and subtraction (MAS); Written addition and subtraction (WAS) | Add 3-digit and 2-digit numbers using mental strategies; add two 3-digit numbers using mental strategies or by using column addition |
| 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); Mental addition and subtraction (MAS) | 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 2 D 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); 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); 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 |

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