



**Plan:** Abacus Year 3

**School Name:** St Annes Primary School **Teacher:** **Class:**

| Autumn Term 1 |   |  |    |     |     |
|---------------|---|--|----|-----|-----|
| Wk            | Strands   | Weekly Summary   | Em | Exp | Exc |
| 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 MAS numbers to and from 2-digit 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) | Comparing, ordering and understanding place value of 2 and 3-digit numbers.    |    |     |     |
|               |   | Subtract from 2 and 3-digit numbers.   |    |     |     |
|               |   | Using prediction to estimate calculations.                                     |    |     |     |

| Autumn Term 2 |   |   |    |     |     |
|---------------|---|---|----|-----|-----|
| Wk            | Strands   | Weekly Summary  | Em | Exp | Exc |
| 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 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.  |    |     |     |



| Spring Term 1 |   |  |    |     |     |
|---------------|---|--|----|-----|-----|
| Wk            | Strands   | Weekly Summary   | Em | Exp | Exc |
| 11            | Number and place value (NPV); Mental addition and subtraction (MAS)                               | 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) | 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            | Fractions, ratio and proportion (FRP)   | Identify $\frac{1}{2}$ s, $\frac{1}{3}$ s, $\frac{1}{4}$ s, $\frac{1}{6}$ s, and $\frac{1}{8}$ 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            | Geometry: properties of shapes (GPS); Geometry: position and direction (GPD); Measurement (MEA)   | Recognise right angles and know they are $90^\circ$ .  |    |     |     |
|               |   | Understand angles are measured in degrees.   |    |     |     |
|               |   | Recognise $^\circ$ 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 $360^\circ$ is a full turn.   |    |     |     |
|               |   | Begin to understand angles and identify size of angles in relation to $90^\circ$ .   |    |     |     |
| 15            | Number and place value (NPV); Mental addition and subtraction (MAS)                               | 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.   |    |     |     |

| Spring Term 2 |  |   |    |     |     |
|---------------|--|---|----|-----|-----|
| Wk            | Strands  | Weekly Summary  | Em | Exp | Exc |
| 16            | Number and place value (NPV); Written addition and subtraction (WAS) | 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). |    |     |     |



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|----|--|---|--|--|--|
| 17 | Mental addition and subtraction (MAS);<br>Written addition and subtraction (WAS)       | 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 expanded column addition.   |  |  |  |
|    |  | Investigate patterns in numbers when adding them.   |  |  |  |
|    |  | Choose to solve addition using a mental method or expanded column addition (written method).      |  |  |  |
| 18 | Measurement (MEA)  | 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 | Number and place value (NPV); Mental addition and subtraction (MAS)                    | 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 | Mental multiplication and division (MMD);<br>Written multiplication and division (WMD) | 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.   |  |  |  |

| Summer Term 1 |   |   |    |     |     |
|---------------|---|---|----|-----|-----|
| Wk            | Strands   | Weekly Summary  | Em | Exp | Exc |
| 21            | Mental addition and subtraction (MAS);<br>Written multiplication and division (WMD);<br>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 10s and using number facts to cross 100s. |    |     |     |
|               |   | Compare and order fractions with the same denominator.  |    |     |     |
|               |   | Begin to recognise equivalences of $\frac{1}{2}$ .  |    |     |     |
|               |   | Add and subtract fractions with the same denominator.   |    |     |     |
| 22            | Mental multiplication and division (MMD);<br>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   | Divide without remainders, just beyond the 12th multiple.   |    |     |     |



|    |   |  |  |  |  |
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|    | division (MMD); Written multiplication and division (WMD)                     | Division using chunking, with remainders.<br>Use the grid method to multiply 2-digit numbers by 3, 4, 5 and 8.<br>Begin to estimate products.  |  |  |  |
| 24 | Statistics (STA); Measurement (MEA)   | Draw and interpret block graphs and pictograms where one square/symbol represents two units.<br>Compare and measure weights in multiples of 100g.<br>Know how many grams are in a kilogram.<br>Estimate and weigh objects to the nearest 100g.<br>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.<br>Add two 3-digit numbers using mental strategies or by using column addition.   |  |  |  |

| Summer Term 2 |  |   |    |     |     |
|---------------|--|---|----|-----|-----|
| Wk            | Strands  | Weekly Summary  | Em | Exp | Exc |
| 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.<br>Subtract 3-digit numbers using counting up.<br>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.<br>Solve problems involving measures.<br>Solve subtractions of 3-digit numbers using counting up on a line and work systematically to find possibilities.<br>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.<br>Measure the perimeter of 2D shapes by counting and measuring with a ruler.<br>Tell the time on analogue and digital clocks to the minute, begin to tell the time 5, 10, 20 minutes later.<br>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.<br>Estimate products; divide using chunking, with and without remainders.<br>Decide whether to use multiplication or division to solve word problems.<br>Recognise tenths and equivalent fractions.<br>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.<br>Revise mental strategies for addition.<br>Subtract 3-digit numbers using written and mental methods.<br>Find change using counting up.<br>Check subtraction using addition.<br>Multiply numbers between 10 and 40 by 1-digit numbers using grid method.<br>Solve division problems just beyond the known tables facts.    |    |     |     |



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