



# Mundy Church of England Junior School

## Medium Term Plan 2021-22

# MATHS

Year 5

SPRING Term 1 & 2

| Key Questions: | Who can find a way to...? | What made you decide to do it that way?                                                                                                  | Can you show me...? | How did you find that out? | What patterns do you notice?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | What do you think? | Is there another way this could be done? | Is that right? | How do you know...? |
|----------------|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------|----------------|---------------------|
| Week           | STRAND                    | Main Focus                                                                                                                               |                     |                            | Weekly Summary / Activities / Outcomes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                          |                | Planning Reference  |
| 1.             | Place Value               | <b>Place value</b><br>Focus on establishing a robust understanding of place value in larger numbers and decimals.                        |                     |                            | <ul style="list-style-type: none"> <li>• Read, write and order numbers with up to 6 digits and understand the place value of each digit</li> <li>• place 6-digit numbers on a number line and find numbers between</li> <li>• solve place-value additions and subtractions with 6-digit numbers</li> <li>• understand place value in decimal numbers as tenths and hundredths</li> <li>• multiply and divide by 10/100/1000 using a place-value grid</li> <li>• understand place value in decimal numbers to 2-decimal places</li> <li>• place decimal numbers on a line</li> <li>• round two-place decimal numbers to nearest tenth and whole number; say the number a tenth or a hundredth more</li> </ul> |                    |                                          |                | Abacus-Y5 Sp-W11    |
| 2.             | Addition and Subtraction  | <b>Addition and subtraction</b><br>Focus on the rehearsal and development of mental calculation strategies for addition and subtraction. |                     |                            | <ul style="list-style-type: none"> <li>• Rehearse mental addition strategies for decimals and whole numbers</li> <li>• use counting on as a strategy to perform mental addition of 2-place decimals to the next whole number</li> <li>• solve missing number sentences</li> <li>• use mental strategies to solve multi-step word problems</li> <li>• use counting up as a strategy to perform written subtraction (Frog)</li> </ul>                                                                                                                                                                                                                                                                          |                    |                                          |                | Abacus-Y5 Sp-W12    |
| 3.             | Addition and Subtraction  | <b>Addition and subtraction</b><br>Focus on column addition of decimal numbers, and on mental subtraction of decimal numbers.            |                     |                            | <ul style="list-style-type: none"> <li>• Use a written column method to add amounts of money in pounds and pence</li> <li>• add 2-place decimals using written column addition</li> <li>• subtract decimal numbers using counting up (Frog)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                                          |                | Abacus-Y5 Sp-W15    |



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| 4.             | Addition and Subtraction  | <b>Addition &amp; subtraction</b><br>Focus on rehearsing column subtraction and extending to larger / more difficult numbers; column addition and subtraction are used to solve problems.                       | <ul style="list-style-type: none"> <li>Solve subtraction of 4-digit numbers using written column subtraction (decomposition)</li> <li>add several numbers using written column addition</li> <li>use column to solve problems</li> </ul>                                                                                                                                                                                                                                                                                                                                 |                            |                              |                    | Abacus-Y5 Sp-W20                          |                |                     |
| 5.             | Geometry                  | <b>Geometry</b><br>Focus on exploring the properties of triangles, naming and identifying the different types; and developing understanding of polygons and angles, particularly in relation to quadrilaterals. | <ul style="list-style-type: none"> <li>Know properties of equilateral, isosceles, scalene and right-angled triangles</li> <li>find that angles in a triangle have a total of 180°</li> <li>sort triangles according to their properties</li> <li>understand what a polygon is; draw polygons</li> <li>revise terms obtuse, acute and reflex angles, perpendicular and parallel sides</li> <li>recognise quadrilaterals as polygons and identify their properties</li> <li>classify quadrilaterals</li> <li>draw regular polygons and explore their properties</li> </ul> |                            |                              |                    | Abacus-Y5 Sp-W14L1&2 & W18L1-3            |                |                     |
| 6.             | Measure                   | <b>Measure</b><br>Focus on revising the metric system (SI) units of measure and conversion, then revise regularly used imperial units.                                                                          | <ul style="list-style-type: none"> <li>Revise metric units of weight, capacity and length</li> <li><i>*Practise how to convert from cms to metres/metres to kilometres and vice versa, grams to kilograms and vice versa, from millilitres to litres and vice versa</i></li> <li>understand that we can measure in imperial units and relate these to their instances in daily life</li> </ul>                                                                                                                                                                           |                            |                              |                    | Abacus-Y5 Sp-W18L4&5 & Teacher resources* |                |                     |



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| 7.             | Measure                   | <b>Measure</b><br>Focus on reading scales using the metric system (SI) units of measure and conversion problems; calculate perimeter and area.<br>Revise TIME                         | <ul style="list-style-type: none"> <li>• Use scales to weigh amounts to the nearest half interval</li> <li>• read scales to the nearest half division</li> <li>• convert from grams to kilograms and vice versa, from millilitres to litres and vice versa</li> <li>• <i>*practise calculating perimeter and area</i></li> <li>• <i>*TIME understand and convert 12 hour&lt;&gt;24 hour</i></li> </ul>                                                            |                            |                              |                    | Abacus-Y5 Sp-W14 L3&4<br><br><i>&amp; Teacher resources*</i> |                |                     |
| 8.             | Statistics                | <b>Statistics</b><br>Read & draw tables, line graphs, and understand timetables                                                                                                       | <ul style="list-style-type: none"> <li>• Understand that we measure distance in kilometres and miles</li> <li>• convert from metres to kilometres and vice versa</li> <li>• draw line conversion graphs</li> <li>• <i>*practise gathering data, creating tables and drawing line graphs</i></li> <li>• <i>*read and use timetables</i></li> </ul>                                                                                                                 |                            |                              |                    | Abacus-Y5 Sp-W14L5<br><br><i>&amp; Teacher resources*</i>    |                |                     |
| 9.             | Multiplication & Division | <b>Multiplication and division</b><br>Focus on the rehearsal and development of mental calculation strategies for multiplication and division, and on identifying patterns and rules. | <ul style="list-style-type: none"> <li>• Use rules of divisibility to find if numbers are divisible by 2, 3, 4, 5, 9 and 10</li> <li>• identify prime numbers; revise finding factors of numbers</li> <li>• find squares and square roots of square numbers finding patterns and making and testing rules</li> <li>• use mental multiplication and division strategies</li> <li>• relate mental division strategies to multiples of ten of the divisor</li> </ul> |                            |                              |                    | Abacus-Y5 Sp-W13                                             |                |                     |



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| 10.            | Multiplication & Division | <b>Multiplication and division</b><br>Focus on the development of written methods for multiplication and division; division is linked to finding fractions of large amounts. |                     |                            | <ul style="list-style-type: none"> <li>• Use a written method (grid) to multiply pairs of 2-digit numbers</li> <li>• use short division to divide 3-digit numbers by 1-digit numbers, including those which leave a remainder</li> <li>• use short multiplication to multiply 3-digit numbers by 1-digit numbers</li> <li>• begin to use short multiplication to multiply 4-digit numbers by 1-digit numbers</li> </ul> |                    |                                          |                | Abacus-Y5 Sp-W16&17       |
| 11.            | Fractions                 | <b>Fractions</b><br>Focus on revising proper fractions and equivalent fractions, mixed numbers and improper fractions; proper fractions are multiplied by whole numbers.     |                     |                            | <ul style="list-style-type: none"> <li>• Find unit fractions and non-unit fractions of 3-digit numbers</li> <li>• Place mixed numbers on lines; count up in fractions using equivalence</li> <li>• convert improper fractions to mixed numbers and vice versa</li> <li>• write improper fractions as mixed numbers and vice versa</li> <li>• multiply proper fractions by whole numbers</li> </ul>                      |                    |                                          |                | Abacus-Y5 Sp-W17L1&2 &W19 |
| 12.            |                           |                                                                                                                                                                              |                     |                            |                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |                                          |                |                           |

END of TERM ASSESSMENT (if relevant)