

# Academy: St Nicholas C of E Long Term Map - Year 4 Maths (2022/2023)

|               | Week 1                              | Week 2 | Week 3         | Week 4                        | Week 5                           | Week 6            | Week 7           | Week 8            | Week 9                        | Week 10                             | Week 11          | Week 12                          | Week 13       | Week 14                               | Week 15                               |
|---------------|-------------------------------------|--------|----------------|-------------------------------|----------------------------------|-------------------|------------------|-------------------|-------------------------------|-------------------------------------|------------------|----------------------------------|---------------|---------------------------------------|---------------------------------------|
| <b>Autumn</b> | Number: Place Value                 |        |                |                               | Number: Addition and Subtraction |                   |                  | <b>Half Term</b>  | Measure: Area                 | Number: Multiplication and Division |                  |                                  | Consolidation |                                       | End of term                           |
| <b>Spring</b> | Number: Multiplication and Division |        |                | Measure: Length and Perimeter |                                  | Number: Fractions | <b>Half Term</b> | Number: Fractions |                               |                                     | Number: Decimals |                                  |               | <i>End of term<br/>Easter Holiday</i> | <i>End of term<br/>Easter Holiday</i> |
| <b>Summer</b> | Number: Decimals                    |        | Measure: Money |                               | Measure: Time                    |                   | <b>Half term</b> | Consolidation     | Geometry: Properties of Shape |                                     | Statistics       | Geometry: Position and Direction |               | Consolidation                         | <i>End of term<br/>Summer Holiday</i> |

| Number and Place Value                                                                                                                                                                                                                        | AU | SP | SU | Fractions and Decimals (continued)                                                                                                                       | AU | SP | SU |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|----------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|
| • Count in multiples of 6, 7, 9, 25 and 1000                                                                                                                                                                                                  |    |    |    | • Recognise and write decimal equivalents to one quarter, one half and three quarters.                                                                   |    |    |    |
| • Find 1000 more or less than a given number                                                                                                                                                                                                  |    |    |    | • Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths |    |    |    |
| • Count backwards through zero to include negative numbers                                                                                                                                                                                    |    |    |    | • Round decimals with one decimal place to the nearest whole number                                                                                      |    |    |    |
| • Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)                                                                                                                                        |    |    |    | • Compare numbers with the same number of decimal places up to two decimal places                                                                        |    |    |    |
| • Order and compare numbers beyond 1000                                                                                                                                                                                                       |    |    |    | • Solve simple measure and money problems involving fractions and decimals to two decimal places.                                                        |    |    |    |
| • Identify, represent and estimate numbers using different representations                                                                                                                                                                    |    |    |    | <b>Measures</b>                                                                                                                                          |    |    |    |
| • Round any number to the nearest 10, 100 or 1000                                                                                                                                                                                             |    |    |    | • Convert between different units of measure [for example, kilometre to metre; hour to minute]                                                           |    |    |    |
| • Solve number and practical problems that involve all of the above and with increasingly large positive numbers                                                                                                                              |    |    |    | • Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres                                              |    |    |    |
| • Read Roman numerals to 100 and know that over time, the numeral system changed to inc the concept of zero and place value.                                                                                                                  |    |    |    | • Find the area of rectilinear shapes by counting squares                                                                                                |    |    |    |
| <b>Addition and Subtraction</b>                                                                                                                                                                                                               |    |    |    | • Estimate, compare and calculate different measures, including money in pounds and pence                                                                |    |    |    |
| • Add and subtract numbers with up to 4 digits using the formal written methods of columnar + and - where appropriate                                                                                                                         |    |    |    | • Read, write and convert time between analogue and digital 12- and 24-hour clocks                                                                       |    |    |    |
| • Estimate and use inverse operations to check answers to a calculation                                                                                                                                                                       |    |    |    | • Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.                                         |    |    |    |
| • Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.                                                                                                                         |    |    |    | <b>Properties of Shape</b>                                                                                                                               |    |    |    |
| <b>Multiplication and Division</b>                                                                                                                                                                                                            |    |    |    | • Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes                                     |    |    |    |
| • Recall multiplication and division facts for multiplication tables up to 12 × 12                                                                                                                                                            |    |    |    | • Identify acute and obtuse angles and compare and order angles up to two right angles by size                                                           |    |    |    |
| • Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers                                                                              |    |    |    | • Identify lines of symmetry in 2-D shapes presented in different orientations                                                                           |    |    |    |
| • Recognise and use factor pairs and commutativity in mental calculations                                                                                                                                                                     |    |    |    | • Complete a simple symmetric figure with respect to a specific line of symmetry                                                                         |    |    |    |
| • Multiply two-digit and three-digit numbers by a one-digit number using formal written layout                                                                                                                                                |    |    |    | <b>Position and Direction</b>                                                                                                                            |    |    |    |
| • Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects. |    |    |    | • Describe positions on a 2-D grid as coordinates in the first quadrant                                                                                  |    |    |    |
| <b>Fractions and Decimals</b>                                                                                                                                                                                                                 |    |    |    | • Describe movements between positions as translations of a given unit to the left/right and up/down                                                     |    |    |    |
| • Recognise and show, using diagrams, families of common equivalent fractions                                                                                                                                                                 |    |    |    | • Plot specified points and draw sides to complete a given polygon.                                                                                      |    |    |    |
| • Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.                                                                                                         |    |    |    | <b>Statistics</b>                                                                                                                                        |    |    |    |
| • Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number                                                         |    |    |    | • Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.                          |    |    |    |
| • Add and subtract fractions with the same denominator                                                                                                                                                                                        |    |    |    | • Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs                           |    |    |    |
| • Recognise and write decimal equivalents of any number of tenths or hundredths                                                                                                                                                               |    |    |    |                                                                                                                                                          |    |    |    |