St. Teresa's Catholic Primary School Maths Skills Progression Class 6

| Term |  | Maths Topics and Learning Objectives |
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| 들$\frac{1}{z}$$\frac{1}{4}$ | Number, Place Value and Rounding Time and Statistics <br> - Count from 0 in multiples of 50 and 100 ; find 10 or 100 more or less than a given number. <br> - count in multiples of, $\mathbf{2 5}$ and 1000 <br> - find $\mathbf{1 0 0 0}$ more or less than a given number - any number <br> - Recognise the place value of each digit in a 3-digit number ( $100 \mathrm{~s}, 10 \mathrm{~s}, 1 \mathrm{~s}$ ). <br> - recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) <br> - Compare and order numbers up to 1,000 . <br> - order and compare numbers beyond $\mathbf{1 0 0 0}$ <br> - Identify, represent and estimate numbers using different representations. <br> - identify, represent and estimate numbers (as above) using different representations <br> - Read and write numbers up to 1,000 in numerals and in words. <br> - Solve number problems and practical problems involving these ideas. <br> - solve number and practical problems that involve all of the above and with increasingly large positive numbers <br> - round any number to the nearest $\mathbf{1 0 , 1 0 0}$ or $\mathbf{1 0 0 0}$ | Calculations <br> (Addition and Subtraction) <br> - Add and subtract numbers mentally (Basic skills), including: <br> - a three-digit number and 1 s <br> - a three-digit number and 10 s <br> - a three-digit number and 100 s. <br> - Add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction. <br> - add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate <br> - Estimate the answer to a calculation and use inverse operations to check answers. <br> - estimate and use inverse operations to check answers to a calculation <br> - Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. <br> - solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why. |
|  | Measurement: Time <br> - read Roman numerals to $\mathbf{1 0 0}$ (I to C ) and know that over time, the numeral system changed to include the concept of zero and place value. (just Y4) - Number and Place value link <br> - Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24hour clocks. <br> - Estimate and read time with increasing accuracy to the nearest minute. <br> - Record and compare time in terms of seconds, minutes and hours. <br> - Use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight. | Measurement: Length and Perimeter <br> - Measure, compare, add and subtract: <br> - lengths $(\mathrm{m} / \mathrm{cm} / \mathrm{mm})$ <br> - Measure the perimeter of simple 2-D shapes. <br> - measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres <br> - find the area of rectilinear shapes by counting squares |

## Geometry - Properties of Shapes <br> (Double maths day)

- Describe and draw 2D shapes, using their properties
- recognise 3-D shapes in different orientations and describe them.
- compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes (e.g. parallelogram, rhombus and trapezium)
- identify lines of symmetry in 2-D shapes presented in different orientations
- complete a simple symmetric figure with respect to a specific line of symmetry
- Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.
- Recognise angles as a property of shape or a description of a turn.
- Identify right angles.
- Recognise that 2 right angles make a half-turn, 3 make three quarters of a turn and 4 a complete turn.
- Identify whether angles are greater than or less than a right angle.
- identify acute and obtuse angles and compare and order angles up to two right angles by size


|  | Measurement: Mass and capacity <br> - I can measure and compare mass and capacity using: <br> - mass (kg/g) <br> - volume/capacity ( $1 / \mathrm{ml}$ ). <br> - convert between different units of measure <br> - I can add and subtract mass using kg and g I can add and subtract volume/capacity using I and ml | Measurement: Money <br> - Add and subtract amounts of money to give change, using both $£$ and $p$ in practical contexts. <br> - estimate, compare and calculate different measures, including money in pounds and pence | Statistics <br> (Double maths day) <br> - Solve one-step and two-step questions using information presented in:- <br> - scaled bar charts <br> - pictograms <br> - tables. <br> - solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs. |
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|  | Number, Place Value and Rounding <br> Consolidate year 3 objectives as necessary <br> - Count from 0 in multiples of 4,8 <br> - count in multiples of $6,7,9$, <br> - find $\mathbf{1 0 0 0}$ more or less than a given number - any number <br> - read Roman numerals to $\mathbf{1 0 0}$ ( I to C ) and know that over time, the numeral system changed to include the concept of zero and place value. (just Y 4 ) <br> - count backwards through zero to include negative numbers <br> - round any number to the nearest $\mathbf{1 0 , 1 0 0}$ or $\mathbf{1 0 0 0}$ <br> - Solve number problems and practical problems involving these ideas. <br> - solve number and practical problems that involve all of the above and with increasingly large positive numbers | Measurement: Length, Perimeter and Area <br> Consolidation of objectives below that need more practice <br> - Measure, compare, add and subtract: <br> - lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ) <br> - Measure the perimeter of simple 2-D shapes. <br> - measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres <br> - find the area of rectilinear shapes by counting squares | Revision of Shape, Mass and Capacity <br> - Identify horizontal and vertical lines and pairs of perpendicular and parallel lines. <br> - Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them. <br> - identify acute and obtuse angles and compare and order angles up to two right angles by size <br> - convert between different units of measure |
|  | Calculations <br> (Addition and Subtraction) <br> Practice and consolidate objectives below <br> - Add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction. <br> - add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate <br> - Estimate the answer to a calculation and use inverse operations to check answers. <br> - estimate and use inverse operations to check answers to a calculation <br> - Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. <br> - solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why. <br> - count backwards through zero to include negative numbers (link with measurement) | Fractions and Decimals <br> Year 3 consolidation <br> - recognise and write decimal equivalents of any number of tenths or hundredths <br> - recognise and write decimal equivalents to $\frac{1}{4}, \frac{1}{2}, \frac{3}{4}$ <br> - 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 <br> - round decimals with one decimal place to the nearest whole number <br> - compare numbers with the same number of decimal places up to two decimal places <br> - solve simple measure and money problems involving fractions and decimals to two decimal places. |  |


| Calculations <br> (Multiplication and Division) <br> Consolidate <br> - Recall and use multiplication and division facts for the 3,4 and 8 multiplication tables. <br> - recall multiplication and division facts for multiplication tables up to $12 \times 12$ <br> - Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times onedigit numbers, using mental and progressing to formal written methods. <br> - multiply two-digit and three-digit numbers by a onedigit number using formal written layout <br> - Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects. <br> - 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. | Measurement: Time <br> Year 3 consolidation <br> - read, write and convert time between analogue and digital 12 and 24 hour clocks <br> - solve problems involving converting from: <br> - hours to minutes <br> - minutes to seconds <br> - years to months <br> - weeks to days |
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## Bold type denotes year four curriculum objectives

