Where Children Come First

# Maths

## Skills taught in Year 4 at The Grange

## Place Value

| | Counting | Represent | Use PV and Compare | Problems & Rounding |
|---|---|---|---|---|
| **Year Four** | • Count backwards through zero to include negative numbers<br>• count in multiples of 6, 7, 9, 25 and 1000. | • Identify, represent and estimate numbers using different representations.<br>• Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value. | • Find 1000 more or less than a given number.<br>• Recognise the place value of each digit in a 4-digit number (thousands, hundreds, tens, ones).<br>• Order and compare numbers beyond 1000. | • Round any number to the nearest 10, 100 or 1000.<br>• Solve number and practical problems that involve all of the above and with increasingly large numbers. |

## Addition & Subtraction

| | Recall, Represent, Use | Calculations | Solve Problems |
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| **Year Four** | • Estimate and use inverse operations to check answers to a calculation. | • Add and subtract numbers with up to 4 digits sding the formal written methods of columnar addition and subtraction where appropriate. | • Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why. |

## Multiplication and Division

| | Recall, Represent, Use | Calculations | Solve Problems | Combined Operations |
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| **Year Four** | • Recall multiplication and division facts for multiplication tables up to 12 x 12.<br>• Use place value, known and derived facts to multiply and divide mentally, including by 0 and 1, dividing by 1, multiplying together three numbers.<br>• Recognise and use factor pairs and commutativity in mental calculations. | • Multiply 2-digit and 3-digit numbers by a 1-digit number using formal written layout. | • Solve problems involving multiplying and adding, including using the distributive law to multiply 2-digit by 1-digit, integer scaling problems and harder correspondence problems. | |

## Fractions

| | Recognise and Write | Compare | Calculations | Solve Problems |
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| **Year Four** | • Count up and down in hundredths.<br>• Recognise that hundredths arise when dividing an object by one hundred and dividing by ten. | • Recognise and show, using diagrams, families of common equivalent fractions. | • Add and subtract fractions with the same denominator. | • 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. |

## Decimals, Percentages and Algebra:

| | Calculations & Problems (Decimals) | Fractions, Decimals and Percentages | Ratio and Proportion | Algrebra |
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| **Year Four** | • Find the effect of dividing a 1 or 2-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths. | • Solve simple measure and money problems involving fractions and decimals to two decimal places. | | |

## Note – algebraic thinking is seen in the 'missing number' objectives from Y1 upwards.

## Measurement

| | Using Measures | Money | Time | Perimeter, Area, Volume |
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| **Year Four** | • Convert between different units of measure.<br>• Estimate, compare and calculate different measures. | • Estimate, compare and calculate different measures, including money in pounds and pence. | • Read, write and convert time between analogue and digital 12 and 24 hr clocks.<br>• Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days. | • Measure and calculate the perimeter of rectilinear figure in cm and m.<br>• Find the area of rectilinear shapes by counting squares. |

# Geometry

| | 2D shapes | 3D shapes | Angles and Lines | Position and Direction |
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| **Year Four** | • Compare and classify geometric shapes.<br>• Identify lines of symmetry in 2D shapes presented in different orientations. | | • Identify acute and obtuse angles and compare and order angles up to two right angles by size.<br>• Identify lines of symmetry in 2D shapes presented in different orientations.<br>• Complete a simple symmetric figure with respect to a specific line of symmetry. | • Describe position on a 2D grid as coordinates in the first quadrant.<br>• Describe movements between positions as translations of a given unit to the left/right and up/down.<br>• Plot specified points and draw sides to complete a given polygon. |

# Statistics

| | Present and Interpret | Solve Problems |
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| **Year Four** | • Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. | • Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs. |