



## Maths

### Skills taught in Year 3 at The Grange

#### Place Value

|                   | Counting  | Represent  | Use PV and Compare   | Problems & Rounding   |
|-------------------|---|--|--|---|
| <b>Year Three</b> | <ul style="list-style-type: none"> <li>Count from 0 in multiples of 4, 8, 50 and 100.</li> <li>Find 10 or 100 more or less than a given number</li> </ul> | <ul style="list-style-type: none"> <li>Identify, represent and estimate numbers using different representations.</li> <li>Read and write numbers up to 1000 in numerals and in words.</li> </ul> | <ul style="list-style-type: none"> <li>Recognise the place value of each digit in a three-digit number (hundreds, tens, ones).</li> <li>Compare and order numbers up to 1000.</li> </ul> | <ul style="list-style-type: none"> <li>Solve number problems and practical problems involving these ideas.</li> </ul> |

#### Addition & Subtraction

|                   | Recall, Represent, Use  | Calculations   | Solve Problems  |
|-------------------|---|--|---|
| <b>Year Three</b> | <ul style="list-style-type: none"> <li>Estimate the answer to a calculation and use inverse operations to check answers.</li> </ul> | <ul style="list-style-type: none"> <li>Add and subtract numbers mentally, including:               <ul style="list-style-type: none"> <li>3-digit number and ones.</li> <li>3-digit number and tens.</li> <li>3-digit number and hundreds</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>Solve problems, including missing number problems, using number facts, place value and more complex addition and subtraction.</li> </ul> |

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|  |  | <ul style="list-style-type: none"> <li>Add and subtract numbers with up to 3-digits, using formal written methods of columnar addition and subtraction.</li> </ul> |  |
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### Multiplication and Division

|                   | Recall, Represent, Use   | Calculations  | Solve Problems   | Combined Operations |
|-------------------|--|---|--|---------------------|
| <b>Year Three</b> | <ul style="list-style-type: none"> <li>Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</li> </ul> | <ul style="list-style-type: none"> <li>Write and calculate mathematical statements for multiplication and division using the x tables that they know, including for 2-digit numbers x 1-digit numbers, using mental and progressing to formal written methods.</li> </ul> | <ul style="list-style-type: none"> <li>Solve problems including missing number problems involving multiplication and division, integer scaling and correspondence problems.</li> </ul> |                     |

### Fractions

|                   | Recognise and Write   | Compare   | Calculations   | Solve Problems  |
|-------------------|---|---|--|---|
| <b>Year Three</b> | <ul style="list-style-type: none"> <li>Count up and down in tenths.</li> <li>Recognise that tenths arise from dividing an objects into 10 equal parts and in dividing 1-digit numbers or quantities by 10.</li> <li>Recognise, find and write fractions of a discrete set of</li> </ul> | <ul style="list-style-type: none"> <li>Recognise and show, using diagrams, equivalent fractions with small denominators.</li> <li>Compare and order unit fractions and fractions with the same denominators.</li> </ul> | <ul style="list-style-type: none"> <li>Add and subtract fractions with the same denominator within one whole.</li> </ul> | <ul style="list-style-type: none"> <li>Solve problems that involve all of the above.</li> </ul> |

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|--|--|--|--|--|
|  | objects: unit and non-unit fractions with small denominators. <ul style="list-style-type: none"> <li>Recognise and use fractions as numbers: unit and non-unit fractions with small denominators.</li> </ul> |  |  |  |
|--|--|--|--|--|

**Decimals, Percentages and Algebra:**

**Note – algebraic thinking is seen in the ‘missing number’ objectives from Y1 upwards.**

**Measurement**

|                   | Using Measures   | Money   | Time  | Perimeter, Area, Volume  |
|-------------------|--|---|---|--|
| <b>Year Three</b> | <ul style="list-style-type: none"> <li>Measure, compare, add and subtract lengths, mass, volume/capacity.</li> </ul> | <ul style="list-style-type: none"> <li>Add and subtract amounts of money to give change, using both £ and p in practical contexts.</li> </ul> | <ul style="list-style-type: none"> <li>Tell and write the time from an analogue clock, including Roman numerals and 24 hr clocks.</li> <li>Estimate and read time with increasing accuracy to the nearest minute.</li> <li>Record and compare time in terms of seconds, minutes, hours and use vocab relating to these.</li> <li>Know the number of seconds in a minute and the number of days in each year and leap year.</li> <li>Compare durations of events.</li> </ul> | <ul style="list-style-type: none"> <li>Measure the perimeter of simple 2D shapes.</li> </ul> |

## Geometry

|                   | 2D shapes   | 3D shapes  | Angles and Lines  | Position and Direction |
|-------------------|---|--|---|------------------------|
| <b>Year Three</b> | <ul style="list-style-type: none"><li>• Draw 2D shapes.</li></ul> | <ul style="list-style-type: none"><li>• Make 3D shapes using modelling materials.</li><li>• Recognise 3D shapes in different orientations and describe them.</li></ul> | <ul style="list-style-type: none"><li>• Recognise angles as a property of shape or a description of a turn.</li><li>• Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn.</li><li>• Identify whether angles are greater than or less than a right angle.</li><li>• Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.</li></ul> |                        |

## Statistics

|                   | Present and Interpret   | Solve Problems  |
|-------------------|---|---|
| <b>Year Three</b> | <ul style="list-style-type: none"><li>• Interpret and present data using bar charts, pictograms and tables.</li></ul> | <ul style="list-style-type: none"><li>• Solve one-step and two-step questions using information presented in scaled bar charts and pictograms and tables.</li></ul> |