

## Maths Scheme of Work – Entry Level 3

| Component                        | Prior Knowledge From KS2/ELC1/2  | Learning Opportunities  | Colour band | Edexcel Award | Functional skills | GCSE |
|----------------------------------|--|---|-------------|---------------|-------------------|------|
| <b>1</b><br>Properties of Number | <p>Read, write, order and compare numbers up to 100</p> <p>Recognise place value in two digit numbers</p> <p>Count from 0 in steps of two, three and five</p> <p>Round numbers less than 100 to the nearest 10</p> <p>Understand and identify odd and even numbers</p> | <p>Read and write numbers up to 1,000</p> <p>Order and compare numbers up to 1,000</p> <p>Recognise place value in three digit numbers</p> <p>Round numbers less than 1,000 to the nearest 10</p> <p>Round numbers less than 1,000 to the nearest 100</p> <p>Find 10 or 100 more or less than a given number</p> <p>Recognise and use multiples of 2, 3, 4, 5, 8, 10, 50 and 100</p> <p>Component 1 worksheets <a href="#">here</a></p> |             |               |                   |      |
| Extension Opportunities          |  | <p>Read, write, order and compare positive integers up to 1000</p> <p>Round positive integers to the nearest 10, 100 and 1000, decimals to one decimal place and the nearest integer, and round money in calculations to the nearest penny.</p> <p>Know multiplication and division facts up to <math>10 \times 10</math></p>   |             | Level 1       |                   |      |
| Additional Teacher Notes         |  | <ul style="list-style-type: none"> <li>All component worksheets must be marked in line with mark schemes.</li> <li>All external assessments must be written in black pen and completed under exam conditions.</li> <li>All ELC Resources <a href="#">here</a></li> </ul>  |             |               |                   |      |

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| <b>2</b><br>Four<br>Operations | Add and subtract whole numbers with a total up to 100<br>Understand and use the +, -, x and = signs to solve simple number problems<br>Multiply using single digit whole number<br>Recall and use multiplication facts for the 2, 5 and 10 multiplication tables              | Add and subtract using three digit numbers<br>Multiply a two digit whole number by a single digit whole number<br>Divide a two digit whole number by a single digit whole number<br>Use and interpret +, -, x, ÷ and = in real-life situations for solving problems<br>Use inverse operations to find missing numbers<br>Estimate the answer to a calculation<br>Recall and use multiplication facts for the 3, 4 and 8 multiplication tables<br><br>Component 2 worksheets <a href="#">here</a> |                |                  |                      |      |
| Extension Opportunities        | Add, subtract, multiply and divide positive integers (single digit multiplier and divisor for non-calculator section)<br>Multiply and divide positive integers by 10, 100 and 1000<br>Check solutions to questions and problems by considering whether the answer is sensible |  |                | Level 1          |                      |      |
| Additional Teacher Notes       | <ul style="list-style-type: none"> <li>All component worksheets must be marked in line with mark schemes.</li> <li>All external assessments must be written in black pen and completed under exam conditions.</li> <li><a href="#">All ELC Resources here</a></li> </ul>      |  |                |                  |                      |      |

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| <b>3</b><br>Ratio        | <p>Understand equality<br/>Work out <math>\frac{1}{2}</math>, <math>\frac{1}{3}</math> and <math>\frac{1}{4}</math> of a quantity up to 24.<br/>Count in fractions of one half or one third or one quarter<br/>Work out amounts two, three or four times the size of a given amount<br/>Recognise the equivalence of <math>\frac{1}{2}</math> and <math>\frac{2}{4}</math></p> | <p>Identify or show unit fractions up to one tenth of a quantity up to 100<br/>Work out unit fractions to one tenth of a number up to 100<br/>Identify or show any number of thirds, quarters, fifths or tenths of a quantity<br/>Work out any number of thirds, quarters, fifths or tenths of an amount<br/>Recognise and identify equivalent fractions<br/>Add and subtract fractions with the same denominator within one whole<br/>Work out amounts 5, 8 or 10 times the size of a given amount</p> <p>Component 3 worksheets <a href="#">here</a></p> |                |                  |                      |      |
| Extension Opportunities  |  | <p>Use equivalent fractions.<br/>Write fractions in their simplest form<br/>Read, write, order and compare fractions and mixed numbers<br/>Multiply a fraction by a positive integer, and find a fraction of a whole number quantity (positive integers only)<br/>Convert simple fractions to decimals (up to 2 decimal places) and vice versa<br/>Add and subtract simple fractions (with the same denominator, excluding mixed fractions)</p>  |                | Level 1          |                      |      |
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| 4<br>Money               | <p>Convert from pence to pounds and vice versa</p> <p>Make amounts of money up to £2 from given coins, and in multiples of £5 from £5, £10 and £20 notes</p> <p>Calculate with amounts of money in pence up to £1 and whole pounds up to £100 and give change</p> | <p>Appreciate the purchasing power of amounts of money (notes)</p> <p>Exchange notes for an equivalent value in coins</p> <p>Use decimal notation for money</p> <p>Interpret a calculator display</p> <p>Solve real life problems involving what to buy and how to pay</p> <p>Add amounts of money and give change</p> <p>Carry out investigations involving money</p> <p>Component 4 worksheets <a href="#">here</a></p> |                |                  |                      |           |
| Extension Opportunities  |   | <p>Read, write, order and compare money</p> <p>Add, subtract, multiply and divide quantities of money, household finance, utility bills, shopping bills, interest (for 1 year)</p> <p>Add, subtract and multiply decimals up to two decimal places</p> <p>Divide decimals with up to two decimal places, using a calculator</p> <p>Work out simple percentages of quantities, including VAT</p>                           |                | Level 1          | Level 1              | Grade 1-3 |
| Additional Teacher Notes |   | <ul style="list-style-type: none"> <li>All component worksheets must be marked in line with mark schemes.</li> <li>All external assessments must be written in black pen and completed under exam conditions.</li> <li>All ELC Resources <a href="#">here</a></li> </ul>  |                |                  |                      |           |

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| 5<br>Calendar and Time   | <p>Know the days of the week and their order</p> <p>Know the seasons and months and their order</p> <p>Convert weeks/days/hours/minutes/seconds.</p> <p>Read the time to the nearest five minutes on an analogue clock, draw the hands on a clock to show the time, and read any time on a digital clock</p> <p>Find the difference between two times given in hours, half hours and quarter hours.</p> | <p>Solve problems involving time</p> <p>Know that there are 365 days in a year, 366 days in a leap year, 12 months in a year and 52 full weeks in a year</p> <p>Use a calendar and write the date correctly (day/month/year)</p> <p>Tell and write the time from an analogue clock, including using Roman numerals from I to XII</p> <p>Understand and use the 12-hour and 24-hour clock systems and convert from one system to the other</p> <p>Convert between hours, minutes and seconds</p> <p>Add up to three lengths of time given in minutes and hours</p> <p>Component 5 worksheets <a href="#">here</a></p> |             |               |                   |           |
| Extension Opportunities  |   | <p>Read, measure and record events on calendars</p> <p>Read, measure and record time using digital and analogue clocks in 12-hour and 24-hour format</p> <p>Work out intervals of time and convert between units of time</p> <p>Use units of time including seconds, minutes, hours, days, weeks, months and years</p> <p>Read, construct and use everyday tables and charts, eg tables and timetables (bus, train and airlines).</p>  |             | Level 1       | Level 1           | Grade 1-3 |
| Additional Teacher Notes |   | <ul style="list-style-type: none"> <li>All component worksheets must be marked in line with mark schemes.</li> <li>All external assessments must be written in black pen and completed under exam conditions.</li> <li><a href="#">All ELC Resources here</a></li> <li><b>Note: Roman numerals are not covered in Edexcel Award, Functional Skills or GCSE.</b></li> </ul>   |             |               |                   |           |

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| 6 Measures              | <p>Compare lengths, heights, weights and capacities</p> <p>Give the length of a line drawn on a centimetre grid</p> <p>Describe capacity in fractions</p> <p>Compare, order and estimate lengths, capacities and weights in the given units</p> <p>Select a possible length, capacity or weight for a given item</p> <p>Measure or draw a length using a ruler</p> | <p>Add lengths, capacities and weights and compare the total to another total or a requirement. Convert standard units of length, capacity and weight</p> <p>Compare and order lengths, capacities and weights in different standard units</p> <p>Measure the perimeter of a simple shape</p> <p>Choose an appropriate measuring instrument</p> <p>Read values from an appropriate scale</p> <p>Read and compare temperature including temperature with negative values</p> <p>Component 6 worksheets <a href="#">here</a></p> |             |               |                   |           |
| Extension Opportunities |  | <p>Add and subtract units of measure</p> <p>Convert units of measure in the metric system</p> <p>Draw and measure lines and angles, accurate to the nearest cm and degree</p> <p>Know and use units of measure for length, weight, angles, capacity, temperature, including metric and imperial units eg imperial units include miles, inches, feet, pounds, gallons and pints</p> <p>Read integer scales</p> <p>Understand negative numbers and use a number line to order, add and subtract negative numbers in context.</p> |             | Level 1       | Level 1           | Grade 1-3 |

|                          |   |
|--------------------------|---|
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| 7<br>Geometry            | Recognise and name 2D and 3D shapes.<br>Compare and order a group of shapes or pictures or similar shapes of different size and recognise congruent shapes<br>Use and understand positional vocabulary<br>Identify a right-angled triangle from a set of triangles<br>Describe the properties of 2D and 3D shapes, including straight and curved edges<br>Understand angle as a measure of turn | Recognise and name prisms, cylinders and cones<br>Draw lines of symmetry on shapes or pictures<br>Recognise and draw nets of cubes and cuboids<br>Identify whether an angle is less or more than a right angle<br>Identify horizontal, vertical and parallel lines<br>Denote the position of a point on a grid by its coordinates or identify a point or item given its coordinates<br>Use North (N), East (E), South (S) and West (W) to give directions or position from a map<br><br>Component 7 worksheets <a href="#">here</a> |                |                  |                      |           |
| Extension Opportunities  |   | Work out the perimeter and area of rectangles and shapes made from rectangles   |                | Level 1          | Level 1              | Grade 1-3 |
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| 8<br>Statistics          | <p>Interpret and draw conclusions from a list or group of objects</p> <p>Construct and interpret simple line graphs</p> <p>Sort and classify objects using more than one criterion</p> <p>Collect information by survey</p> <p>Construct and interpret pictograms where one picture represents one item</p> <p>Interpret simple tables, diagrams, lists and graphs</p> | <p>Construct and interpret bar charts with the vertical axis scaled in ones or twos</p> <p>Construct and interpret pictograms where one picture represents more than one item</p> <p>Extract numerical information from lists, tables, diagrams and charts</p> <p>Complete a frequency table given the original list of results</p> <p>Complete a tally chart and the resulting frequency table</p> <p>Compare two or more diagrams</p> <p>Solve one-step and two-step problems based on statistical information</p> <p>Component 8 worksheets <a href="#">here</a></p> |                |                  |                      |           |
| Extension Opportunities  |  | <p>Read, construct and use everyday tables and charts, eg mileage charts, bar charts, line graphs, currency conversion tables and timetables (bus, train and airlines)</p>  |                | Level 1          | Level 1              | Grade 1-4 |
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