## Numeracy Medium Term Planning Year $4 / 5 \quad 2017$ - 18

| Date / <br> Week | O/M Strand | O/M Objective | Main Lesson Strand | Main Lesson Objective | Problem Solving / Using and Applying Opportunity |
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| Spring 1 <br> week 1 | Number - <br> Place Value | - count backwards through zero to include negative numbers | Number - <br> Place Value | - recognise the place value of each digit in a six-digit number <br> - order and compare numbers beyond 1000 <br> - round any number to the nearest $10,100,1000,10,000$ or 100,000 <br> - Find the different between a positive and negative number. | - solve number and practical problems that involve all of the above and with increasingly large positive numbers <br> - solve number and practical problems with negative numbers |
| Spring 1 <br> week 2 | Geometry position and direction | - describe positions on a 2-D 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. | Geometry - <br> position and direction | - describe positions on a 2-D 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. | - Pupils draw a pair of axes in one quadrant, with equal scales and integer labels. They read, write and use pairs of coordinates, for example $(2,5)$, including using coordinate-plotting ICT tools. |


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| Spring 1 <br> week 3 | Measurement | - Convert between different units of measure [for example, kilometre to metre: hour to minute] | Measurement | - Measure and calculate perimeter in cm and m <br> - Calculate and compare area of rectangles <br> - Estimate the area of irregular shapes | - Working out the volume of shapes by making it with cm cubes |
| Spring 1 <br> week 4 | Number | - Use place value to add / subtract near multiples of 100 / 1000 <br> - Find the difference (give change) for different money amounts | Number Addition and subtraction (mental methods) | - Use counting up to subtract <br> - Subtract pairs of numbers with 1 decimal place <br> - estimate and use inverse operations to check answers to a calculation | - solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why. |
| Spring 1 <br> week 5 | Number addition of decimals | - round decimals to the nearest whole or tenth. | Number - <br> Place Value <br> (decimals) | - multiply and divide by 10,100 , 100 and say what each digit represents to 3 decimal places <br> - add pairs of 3 and 4 digit numbers with up to 3 decimal places, including those with different numbers of decimal places. | - solve problems with a money context to 2 decimal places |


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| Spring 2 <br> week 3 | Measurement | - Convert between different units of measure [for example, kilometre to metre; hour to minute] | Measurement | - Convert between different units of measure [for example, kilometre to metre; hour to minute] <br> - estimate, compare and calculate different measures, including money in pounds and pence <br> - (Capacity) | - Use measures in a practical context such as baking. |
| Spring 2 <br> week 4 | Number - <br> Multiplication | - find the effect of dividing a oneor two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths | Measurement | - read, write and convert time between analogue and digital 12 - and 24 -hour clocks | - solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days. |
| Spring 2 <br> week 5 | Geometry position and direction | - identify lines of symmetry in 2-D shapes presented in different orientations | Geometry position and direction | - Draw given angles and measure them in degrees. <br> - Use properties of rectangles to deduce related and find missing lengths and angles. | - Pupils draw symmetric patterns using a variety of media to become familiar with different orientations of lines of symmetry; and recognise line symmetry in a variety of diagrams, including where the line of symmetry does not dissect the original shape. |


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| Spring 2 | Number - <br> decimals <br> week 6 | - Round decimals <br> - Multiply / divide by 10,100,1000 | Measurement | - Find perimeter and area, using <br> standard units, of rectangles <br> Estimate the area of irregular <br> shapes | -Solve real life problems <br> involving area and <br> perimeter |

