Numeracy Medium Term Planning Year 4/5 2017 - 18

Date / Week	O/M Strand	O/M Objective	Main Lesson Strand	Main Lesson Objective	Problem Solving / Using and Applying Opportunity
Spring 1 week 1	Number - Place Value	 count backwards through zero to include negative numbers 	Number - Place Value	 recognise the place value of each digit in a six-digit number order and compare numbers beyond 1000 round any number to the nearest 10, 100, 1000, 10,000 or 100,000 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 solve number and practical problems with negative numbers
Spring 1 week 2	Geometry - position and direction	 describe positions on a 2-D grid as coordinates in the first quadrant describe movements between positions as translations of a given unit to the left/right and up/down plot specified points and draw sides to complete a given polygon. 	Geometry - position and direction	 describe positions on a 2-D grid as coordinates in the first quadrant describe movements between positions as translations of a given unit to the left/right and up/down 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.

Date / Week	O/M Strand	O/M Objective	Main Lesson Strand	Main Lesson Objective	Problem Solving / Using and Applying Opportunity
Spring 1 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 Calculate and compare area of rectangles Estimate the area of irregular shapes 	• Working out the volume of shapes by making it with cm cubes
Spring 1 week 4	Number	 Use place value to add / subtract near multiples of 100 / 1000 Find the difference (give change) for different money amounts 	Number – Addition and subtraction (mental methods)	 Use counting up to subtract Subtract pairs of numbers with 1 decimal place 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 week 5	Number - addition of decimals	 round decimals to the nearest whole or tenth. 	Number - Place Value (decimals)	 multiply and divide by 10, 100, 100 and say what each digit represents to 3 decimal places 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

Date / Week	O/M Strand	O/M Objective	Main Lesson Strand	Main Lesson Objective	Problem Solving / Using and Applying Opportunity
Spring 2 week 1	Number – Multiplication and division	 recall multiplication facts for multiplication tables up to 12 × 12 	Number - Multiplication	• multiply 3-digit and 4-digit numbers by a 2-digit number using formal written layout	 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.
Spring 2 week 2	Number – Multiplication and division	 recall division facts for multiplication tables up to 12 × 12 	Number - Division	 divide numbers using formal written layout 	 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.

Date / Week	O/M Strand	O/M Objective	Main Lesson Strand	Main Lesson Objective	Problem Solving / Using and Applying Opportunity
Spring 2 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] estimate, compare and calculate different measures, including money in pounds and pence (Capacity) 	 Use measures in a practical context such as baking.
Spring 2 week 4	Number – Multiplication	 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 	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 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. 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.

Date / Week	O/M Strand	O/M Objective	Main Lesson Strand	Main Lesson Objective	Problem Solving / Using and Applying Opportunity
Spring 2 week 6	Number - decimals	 Round decimals Multiply / divide by 10, 100, 1000 	Measurement	 Find perimeter and area, using standard units, of rectangles Estimate the area of irregular shapes 	 Solve real life problems involving area and perimeter