Maths Medium Term

Year: 4 **Term: Autumn** **Teacher: Miss H Collins & Mrs S Stein**

Week	Topic	Objectives
Week 1	Number & Place Value	To be able to partition numbers in different ways To be able to partition and re-partition 2 and 3 digit numbers to at least 200 To be able to read and write numbers to 10000 To be able to order and compare numbers beyond 1000 To be able to recognise the place value of each digit in a three digit number (hundreds, tens and ones) To be able to recognise the place value of each digit in a four-digit number (thousands, hundreds, tens and ones) To be able to identify, represent and estimate numbers using different representations, including the number line
Week 2	Addition	To be able to estimate answers to calculations To be able to add 2 digit numbers using concrete objects, pictorial representations, and mentally. To be able to add numbers mentally, including: combinations of two digit numbers or of three-digit number and ones To be able to add two numbers (up to 4 digits) crossing the tens and/or hundred boundaries using a written method. To be able to solve missing number problems To be able to consider the most appropriate strategy to solve a calculation: calculate mentally, use a jotting or a written method

Week 3	Subtraction	To be able to estimate answers to calculations To be able to subtract 2 digit numbers using concrete objects, pictorial representations, and mentally To be able to subtract numbers mentally, including combinations of two digit numbers or of three-digit number and ones To be able to subtract a 2 digit number from a 2 digit number crossing the tens using an expanded method of written recording and manipulatives To be able to solve missing number problems To be able to use inverse to check the answers to calculations To be able to consider the most appropriate strategy to solve a calculation: calculate mentally, use a jotting or a written method To be able to subtract numbers with up to 4 digits using an expanded method of subtraction To be able to solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why
Week 4	Money	To be able to estimate answers to calculations To be able to use £ or p correctly To understand that the decimal point separates pounds and pence To be able to consider the most appropriate strategy to solve a calculation: calculate mentally, use a jotting or a written method To be able to add two or more amounts of money with up to 4 digits (including decimals with two decimal places) using a written method of addition where appropriate To be able to subtract amounts of money with up to 4 digits (including decimals with two decimal places) using a written method of subtraction where appropriate To be able to use inverse to check the answer to calculations To be able give change from £1, £5 or £10 To be able to solve problems involving money
Week 5	Measures - Length	To be able to estimate, measure and compare lengths m, cm To be able to read and interpret the scale on a range of measuring equipment-rules, tapes etc. To understand that perimeter is a measure of distance To be able to measure objects including the perimeter of simple 2 D shapes To be able to apply measures to addition and subtraction problems To be able to use the inverse to check answers to calculations To be able to convert between different units of measure (e.g. kilometre to metre) To be able to solve problems involving length

Week 6	Fractions	To be able to count up and down in ½, 1/3 ¼, 1/10 to 10 To be able to recognise, find and name fractions of a set of objects- a third, a half, a quarter and a tenth with whole number answers To be able to find ¾ of a set of objects To be able to calculate fractions of amounts practically and link to division.
Week 7	Multiplication	To be able to estimate answers to calculations To be able to count from 0 in multiples of 3 or 4 To be able to describe and extend number sequences involving counting on or back in sizes different steps To be able to recall and use multiplication facts for the 3 and 4 times tables. To be able to use partitioning to double or halve any number, To be able to identify patterns of similar calculations, e.g. if I know 5 x 9, I also know 90 x 5, To be able to multiply two-digit and three-digit numbers by a one-digit number using an expanded written layout To be able to use inverse to check answers to calculations To be able to solve problems involving multiplying and adding
Week 8	Division	To be able to estimate answers to calculations To be able to write and calculate number sentences for 2x, 3x 4x 5x, and 10x, tables and the related division facts –link to arrays and manipulatives To be able to use inverse to check answers to calculations To be able to solve missing number problems involving multiplications or division-link to arrays and manipulatives To be able to solve multiplication and division word problems. To be able to identify patterns of similar calculations, e.g. if I know 5 x 9, I also know 90 x 5, To be able to solve problems involving division (including remainders)
Week 9 & 10	Shape, Position & Direction	To be able to make and then describe 3D shapes using modelling materials -edges, vertices and faces To be able to recognise 3D shapes in different orientations To be able to identify lines of symmetry in 2-D shapes To be able to sort geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.

		To be able to identify a right angle To be able to recognise angles as a description of a turn To be able to use the correct vocabulary to describe rotation in terms of right angles To be able to identify acute and obtuse angles and compare To be able to order angles up to two right angles by size
Week 11	Statistics	To be able to read an interpret an range of scales To be able to construct pictograms, bar charts and tables where the scale increases by 2, 3,5 or 10 To be able to interpret pictograms, bar charts and tables To be able to answer one-step and two-step questions (for example, 'How many more?' and 'How many fewer?') using information presented in scaled bar charts, pictograms and tables To be able to solve problems involving statistics
Week 12	Measures - Time	To be able to estimate, read and write time to the nearest five minutes from an analogue clock To be able to record and compare time as minutes and hours To be able to use vocabulary such as o'clock, a.m. /p.m., morning, afternoon, noon and midnight. To know the number of seconds in a minute and the number of days in each month, year and leap year. To be able to read time on a digital clock To be able to solve simple problems involving passage of time-use a number line
Week 13	Problem solving	To be able to apply knowledge and skills to solve problems.