Maths Medium Term

<u>Year:</u> 5   <u>Term:</u> Spring   <u>Teachers:</u> Mrs Collins and Mrs Tinker

<u>Week</u>	<u>Topic</u>	<u>Objectives</u>
Week 1 & 2	MEASURES – TIME TO SOLVE PROBLEMS / STATISTICS TO SOLVE PROBLEMS	To continue to read, write and convert time between analogue and digital 12 hour clocks. Know the link between the 12hr and 24hr clock. To be able to convert from analogue and 12hr clock to 24 hour clock. To complete, read and interpret information in timetables. Solve problems involving converting between units of time / Time Zones.
Week 3	NUMBER & PLACE VALUE / ADDITION AND SUBTRACTION TO SOLVE PROBLMS	Round decimals with two decimal places to the nearest whole number and to one decimal. Add two or more whole numbers with more than 4 digits including using a compact written method of addition. Add two or more decimals numbers with up to two decimal places, including using a compact written method of addition. Subtract whole numbers with more than 4 digits including using a compact written method of subtraction. Subtract decimals numbers with up to two decimal places, including using a compact written method of subtraction. Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
Week 4	SHAPE. POSITION & DIRECTION TO SOLVE PROBLEMS / MULTIPLICATION	To be able to find the perimeter of squares and rectangles. To be able to calculate the area of a square or rectangle, using standard units. To be able to calculate the area of a triangle, using standard units. To be able to find the perimeter of a compound shape. To be able to calculate the area of a compound shape, using standard units. Solve problems involving area.
Week 5	MULTIPLICATION TO SOLVE PROBLEMS	Estimate answers and use rounding Consider the most appropriate strategy to solve a calculation: calculate mentally, use a jotting or a written method

		Multiply numbers up to 4 digits by a one- or two-digit number using a compact written method, including long multiplication for two-digit numbers.
		To be able to multiply decimals to 2 places, by a single digit number using a one- or two-digit number using a compact written method, including long multiplication for two-digit numbers.
		Solve problems involving multiplication including using their knowledge of factors and multiples, cubes and squares
		Solve problems involving multiplication, including scaling by simple fractions and problems involving simple rates
Week 6	MEASURE – LENGTH, MASS & CAPACITY TO SOLVE PROBLEMS	To read and interpret scale measurements To convert grams to kilograms I can solve word problems involving weight I can use data to test a hypothesis Problem solving finding the correct sequence and writing the rule
Week 7	FRACTIONS TO SOLVE PROBLEMS.	Continue to compare and order fractions whose denominators are all multiples of the same number on a number line Be introduced to mixed number and improper fractions-practically or with diagrams Write a mixed number e.g. 1 and explain its meaning Write an improper fraction e.g. 11/6 and explain its meaning Convert mixed numbers to and improper fractions and vice versa Convert an improper fraction answer to a mixed number Revise adding fractions with the same denominator. Revise subtracting fractions with the same denominator. Add fractions with denominators that are multiples of the same number – link to equivalent fractions and factors Subtract fractions with denominators that are multiples of the same number - link to equivalent fractions and factors
Week 8	NUMBER AND PLACE VALUE	To be able to double and halve decimals. To partition decimals using both decimal and fraction notations Converting decimals and fractions To be able to find a fraction of an amount. To be able to find percentages of an amount. To be able to write fractions and decimals as percentages.

Week 9	POSITION AND DIRECTION TO SOLVE PROBLEMS	To be able to identify and draw lines of symmetry To be able to reflect a shape along a mirror line — straight and angled To be able to rotate shapes. Problem solving - Pentominoes
Week 10	POSITION AND DIRECTION TO SOLVE PROBLEMS	Describe positions on the first quadrant of a coordinate grid Plot specified points and complete shapes Identify, describe and represent the position of a shape following a reflection using the appropriate language, and know that the shape has not changed Identify, describe and represent the position of a shape following a translation, using the appropriate language, and know that the shape has not changed Solve problems involving position and/ or direction
Week 11	DIVISION TO SOLVE PROBLEMS	Estimate answers Consider the most appropriate strategy to solve a calculation: calculate mentally, use a jotting or a written method Divide numbers up to 4 digits by a one-digit number using a written method of short division. Divide numbers up to 4 digits by a two-digit number using a written method of expanded division (chunking) Interpret remainders appropriately for the context To be able to divide 3 digit numbers inc decimals to 2 places, by a single digit number. Solve problems involving division, including scaling by simple fractions and problems involving simple rates.
Week 12	ALGEBRA / PROBLEM SOLVING	Introduction to Algebra. To understand the convention of brackets within algebra. Solve problems involving addition, subtraction, multiplication and division, and combinations of these.
Week 13	STATISTICS TO SOLVE PROBLEMS	To calculate the mode median, mean and range from a given set of data