Maths Medium Term Plan
Year 5 Spring Term – Miss Mills

Week	Topic	Objectives
Week 1	TIME	To read and write the time on both 12 hour and 24 hour clocks (digital & analogue). To know the link between the 12 hour and 24 hour clock. To be able to convert time to a digital 12 hour and 24 hour clock. To be able to convert units of time e.g. seconds, minutes To be able to read and interpret information in timetables. To be able to solve problems involving time.
Week 2	STATISTICS	To be able to understand what is continuous and discrete data. To read and interpret a range of scales – link to number line. To be able to read, complete and interpret information presented in tables, bar charts and pictograms. To solve problems involving data presented in a line graph.
Week 3	PLACE VALUE AND NUMBER	To identify the value of each digit in a 6 or 7 digit number including numbers with at least one decimal place. To read and write number with at least one decimal place. To round 6 or 7 digit numbers to the nearest 100 or 1000 using a number line. To compare and order numbers with at least one decimal place on an empty number line. To partition numbers into ones, tenths and hundredths. To round decimals with at least one decimal places to the nearest whole number To solve problems involving number up to two decimal places.
Week 4	ADDITION AND SUBRACTION	To estimate answers including rounding. To choose the most appropriate strategy to solve a calculation: calculate mentally, use a jotting or a written method. To add two whole numbers with up to 4 digits including using a compact written method of addition. To add two decimals numbers with up to two decimal places, including using a compact written method of addition.

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		To subtract whole numbers with more than 4 digits including using a compact written method of subtraction. To subtract decimals numbers with up to two decimal places, including using a compact written method of subtraction To solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why To solve problems involving addition, subtraction, multiplication and division and combinations of these.
Week 5	MULTIPLICATION	To estimate answers and use rounding. To consider the most appropriate strategy to solve a calculation: calculate mentally, use a jotting or a written method. To multiply two-digit or three-digit numbers by a one-digit number using written methods. To use inverse to check the answer to calculations To solve problems involving multiplying (and maybe adding) including integer scaling problems to make an amount a number of times larger. To solve problems involving addition, subtraction, multiplication and division and combinations of these.
Week 6	DIVISION	To estimate answers and use rounding. To consider the most appropriate strategy to solve a calculation: calculate mentally, use a jotting or a written method. To divide numbers up to 4 digits by a one-digit number using a written method of short division To interpret remainders appropriately for the context To solve problems involving division (including remainders) and integer scaling problems to make an amount a number of times smaller problems involving simple rates. To solve problems involving addition, subtraction, multiplication and division and combinations of these.
Week 7	MEASURES - AREA	To measure and calculate the perimeter of rectangular shapes. To sort regular and irregular polygons.

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		To use the properties of rectangles to find missing lengths and angles. To find the area of polygons by counting squares. To link area to arrays and use multiplication to find area. To calculate the area of rectangles (including squares), using standard units, square centimetres (cm^2) and square metres (m^2). To estimate (and find) the area of irregular shapes. To compare the area of rectangles (including squares), using standard units, square centimetres (cm2) and square metres (m^2). To solve problems involving area.
Week 8 & 9	MEASURES – LENGTH, MASS & CAPACITY	To estimate and work practically with measures. To use, read and write standard units of length to a suitable degree of accuracy. To use, read and write standard units of mass to a suitable degree of accuracy. To use, read and write standard units of capacity to a suitable degree of accuracy. To estimate (and find) volume (for example, using 1 cm^3 blocks to build cuboids (including cubes). To estimate (and find) capacity (for example, using water). To estimate answers to calculations including using rounding. To consider the most appropriate strategy to solve a calculation: calculate mentally, use a jotting or a written method. To add and subtract to solve problems involving measures including those involving decimal numbers up to two decimal place.
Week 10 & 11	FRACTIONS	To recognise, find and write fractions of a discrete set of objects. To continue to compare and order fractions whose denominators are all multiples of the same number on a number line To be introduced to mixed number and improper fractions–practically or with diagrams To write a mixed number e.g. $1\frac{1}{5}$ and explain its meaning To write an improper fraction e.g. 11/6 and explain its meaning To convert mixed numbers to and improper fractions and vice versa

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		To adding fractions with the same denominator. To subtract fractions with the same denominator.
Week 12	SHAPE	To distinguish between regular and irregular polygons based on reasoning about equal sides and angles To know what a polygon is. To sort regular and irregular polygons. To use the properties of rectangles to find missing lengths and angles. To measure and calculate the perimeter of rectangular shapes. To use the properties of rectangles to calculate missing lengths and angles To identify 3-D shapes, including cubes and other cuboids, from 2-D representations To compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes To solve problems involving shapes
Week 13	POSITION AND DIRECTION TO SOLVE PROBLEMS	To describe positions on the first quadrant of a coordinate grid To plot specified points and complete shapes To identify, describe and represent the position of a shape following a reflection using the appropriate language, and know that the shape has not changed To 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