Maths Medium Term

Year: 5 **Term: Summer** **Teacher: Miss Mills**

Week	Topic	Objectives
Week 1	NUMBER AND PLACE VALUE	To identify the value of each digit from millions to numbers with at least two decimal places. To create, complete and extend number sequences. To order and compare negative numbers, recognising that the value of negative numbers decreases as they move further away from 0. To count forwards and backwards with positive and negative numbers, including through zero. To interpret negative numbers in context. To carry out simple calculations involving negative numbers. To solve simple problems involving ordering, adding, subtracting negative numbers.
Week 2 & 3	MULTIPLICATION & DIVISION	To multiply numbers with up to 5 digits by a one-digit number using a written method of multiplication. To multiply number with 2 & 3 digit by a two-digit number using a written method of multiplication. To divide numbers up to 4 digits by a one-digit number using a written method of division. To interpret remainders appropriately for the context. To be able to divide 3 digit numbers inc decimals to 2 places, by a single digit number. To be able to write a remainder as a fraction. To solve problems involving division and remainders.
Week 4	SHAPE & MEASURES	To recognise and use square numbers and cube numbers, and the notation for squared (^{2}) and cubed (^{3}). To calculate and compare the area of rectangles (including squares), using standard units, square centimetres (cm ^{2}) and square metres (m ^{2}).

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		To estimate (and find) the area of irregular shapes. To use all four operations to solve problems involving measure (for example, mass, capacity and volume) using decimal notation, including scaling. To understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints. To estimate (and find) volume (for example, using 1 cm 3 blocks to build cuboids (including cubes).
Week 5	POSITION & DIRECTION	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.
Week 6 & 7	FRACTIONS – ADDITION, SUBTRACTION & MULTIPLICATION	To continue to recognise mixed numbers and improper fractions and convert from one form to another. To continue to compare and order fractions whose denominators are all multiples of the same number. To add and subtract fractions with the same denominator and denominators which are multiples of the same number. To multiply proper fractions by whole numbers, supported by materials and diagrams – link to equivalent fractions and factors. To multiply mixed numbers by whole numbers, supported by materials and diagrams – link to equivalent fractions and factors.

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Week 8	PERCENTAGES – TO SOLVE PROBLEMS	To find any percentage of an amount by finding 10% / 5% / 1% and adding or subtracting them. I can give equivalent fractions, decimal and percentages. I can use mathematical knowledge to solve word problems involving fractions, decimals and percentages. To find a proportion of an amount. To be able to calculate ratio. To identify patterns and relationships in number problems. To solve worded problems involving ratio and proportion. I can solve problems involving ratio and proportion and scale the ingredients up or down.
Week 9	ADDITION AND SUBTRACTION TO SOLVE PROBLEMS	To add and subtract numbers with more than 4 digits and decimals with two decimal places, including using a compact written method. To identify and obtain necessary information to carry through a task and solve mathematical problems. To use their own strategies within mathematics and in applying mathematics to practical context. To search for a solution by trying out ideas of their own. To present information and results in a clear and organised way.
Week 10	TIME	To read, write and convert time between analogue and digital 12 and 24-hour clocks. To complete, read and interpret information in tables, including timetables. To solve problems involving converting between units of time. To solve comparison, sum and difference problems using information presented in all types of graph and tables including a line graphs.

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Week 11	SHAPE & MEASURES	To compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. To continue to draw given angles, and measure them in degrees (°). To identify angles at a point and one whole turn (total 360°). To identify angles at a point on a straight line and a turn (total 180°). To solve problems involving shapes and angles.
Week 12	POSITION & DIRECTION	To compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. To use the properties of rectangles to find missing lengths and/or angles. To identify 3-D shapes, including cubes and other cuboids, from 2-D representations. 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 or translation, using the appropriate language, and know that the shape has not changesd.