



Year 6 Maths Medium Term Plans

Autumn

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Number: Place Value To construct and record numbers to 10 000 000; to recognise the value of digits to 10 000 000. To compare and order numbers to 10 000 000; to create combinations of numbers using a fixed number of digits. To round numbers to 10 000 000 to the nearest million, hundred thousand and ten thousand.	Calculations: Four Operations on Whole Numbers To multiply numbers by multiples of 10. To multiply 3- and 4-digit numbers by 2-digit numbers with regrouping and renaming. To estimate products of multiplying 3- and 4-digit numbers by 2-digit numbers; to use knowledge of multiplication to create specific products. To divide 3-digit numbers by 2-digit numbers using a variety of strategies. To divide 4-digit numbers by 2-digit numbers using a variety of methods. To divide 3-digit numbers by 2-digit numbers giving rise to remainders. To divide 4-digit numbers by 2-digit numbers giving rise to a remainder. To solve word problems involving multiple operations, including multiplication and division.						Fractions, Decimals and Percentages: Fractions To simplify fractions using division and common factors. To compare and order fractions. To add and subtract fractions with different denominators. To add and subtract fractions with different denominators; to add and subtract mixed numbers. To multiply fractions. To divide a fraction by a whole number.				Assessment Week

To round numbers to the nearest appropriate number up to and including millions; to determine when rounding is appropriate and to which value.	To use common multiples to solve problems; to organise mathematical thinking into tables and lists. To find common factors. To use prime numbers to create other numbers; to explore prime numbers above 100.		
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Spring Term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Fractions, Decimals and Percentages: Decimals To read and write decimals to thousandths. To divide whole numbers by larger whole numbers. To divide whole numbers that give rise to decimals. To convert fractions into decimals. To multiply whole numbers that include a decimal by other whole numbers. To multiply decimals by a 2-digit whole number. To divide decimals by 2-digit numbers.			Measurement: Measurements To convert common measurements into centimetres and millimetres. To convert metres into kilometres as units of measure. To convert distances between miles and kilometres. To convert units of mass from grams to kilograms using decimals and fractions. To convert units of volume from millilitres to litres. To convert units of time from minutes to hours; to represent time using 24-hour		Fractions, Decimals and Percentages: Percentages To find the percentage of a whole number using division and multiplication. To find the percentage of a quantity. To find the percentage change in an amount over time; to calculate the percentage change where the number gives rise to a decimal. To use percentage, bar models and fractions to compare amounts.		Ratio and Proportion: Ratio To use ratios and fractions to compare objects; to find the relationship between ratios, percentages and fractions. To compare more than two quantities using the term 'ratio'; to use bar models to express ratios where there is more than one quantity. To use ratio to count quantities. To use ratio to measure quantities. To compare quantities by writing a ratio. To solve word problems involving ratio.		Assessment Week	Algebra: Algebra To determine a pattern using concrete materials and pictorial representation; to use a table to identify a repeating pattern; to express a rule using a letter or symbol. To be able to express missing number problems algebraically. To recognise patterns; to write and evaluate algebraic expressions with two steps; to write and use formulae. To use formulae to solve problems; to replace a letter/variable with a number then solve the equation; to use inverse operations to	

	notation.				solve equations. To solve equations; to use equations to find unknown values.
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Summer Term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Measurement: Area and Perimeter To find the area and perimeter of rectangles; to calculate perimeter using the known area and vice versa. To identify the base and height of a triangle. To use prior knowledge of area to determine and solve the area of a triangle; to use and apply the formula for the area of a rectangle to solve problems involving triangles. To find the area of a parallelogram using an understanding of triangles; to use concrete materials to find the area of a parallelogram.	Geometry : Properties of shape To investigate opposite angles; to use prior knowledge of angles to solve problems involving angles. To solve problems involving angles with and without protractors. To determine and show	Geometry : Position and Direction To represent negative numbers on both vertical and horizontal number lines. To describe the positions of objects on a coordinate grid; to	Number: Negative Numbers To add and subtract negative numbers using a number line.	SAT Week		Statistics: Graphs and Averages To calculate the average (mean) of sets of values. To solve problems involving the mean; to use the mean and the number of values to calculate the total; to use given information to find unknown values. To read and interpret pie charts; to use percentages in pie charts. To read and interpret pie charts; to use knowledge of angles to interpret pie charts. To read and interpret line graphs; to answer questions about the information in line graphs. To convert miles into kilometres and		Measurement: Volume To estimate the volume of objects and spaces; to calculate the volume of boxes using the formula for volume of cubes and cuboids. To calculate, estimate and compare the volume of cubes and cuboids.	Geometry: Properties of Shape To name the parts of a circle; to calculate diameter and radius using parts of a circle. To solve problems involving angles in a circle. To draw quadrilaterals with specific side lengths and parallel lines; to find the perimeter of shapes and name trapeziums and parallelograms. To construct triangles using a protractor and ruler; to use ratio to determine the		Geometry: Position and Movement To describe reflection using a mirror line and the terms 'object' and 'image'. To describe the movement of objects using

	the sum of the angles inside a triangle and quadrilaterals.	use x and y axes to determine the position of objects on a grid. Draw polygons on a coordinate grid. To describe translations.			kilometres into miles.	To solve word problems involving the volume of cubes and cuboids; to apply the formula for the volume of a cube or cuboid.	dimensions of a triangle. To construct the nets of 3D shapes by identifying the faces and the 2D shapes that construct them.	the terms 'translation' and 'reflection'. To represent translation and reflection using algebraic notation.
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