

YEAR 6	Strands	Progression focus	Weekly Summary
SPRING 1	1 Algebra : Problem Solving Reasoning and Algebra	Use simple formulae in calculations Express missing number problems algebraically.	Generalise a relationship between pairs of numbers, express simple formulae in words, then using letters; describe and continue sequences, generalise to predict the tenth term, begin to generalise a term in a sequence using n to stand for the number of the term in a sequence; describe ratio and use ratio to solve problems; find fractions and simplify ratios
	2 Algebra : Problem Solving Reasoning and Algebra	Find pairs of numbers that satisfy an equation with two unknowns. Generate and describe linear number sequences.	focuses on algebra – developing the use of trial and improvement methods, knowledge of the order of operations including brackets, and the manipulation of sentences containing unknowns.
	3 STA Statistics;	Interpret and construct line graphs and use these to solve problems.	Recap statistical work so far, pictograms bar charts and line graphs and apply to problem solving and reasoning
	4 STA Statistics	Apply knowledge of ratio/percentages of 360° to proportionately represent data in a pie chart. Interpret information from data represented in a pie chart.	Interpret information in pie charts, find common fractions, fractions of the whole, estimate amounts. APPLY TO REASONING PROBLEMS
	5 m Measures	To solve time word problems including 24 hour clock	Revise time – apply to reasoning problems and timetables

SPRING 2	6 Consolidation 1 MEA Measurement; GPS Geometry: properties of shapes PS Geometry: properties of shapes; PRA Problem solving, reasoning and algebra 2 GPD Geometry: position and direction; NPV Number and place value; PRA Problem solving, reasoning and algebra; GPS Geometry: properties of shapes	To interpret the mean as an average Measures Week 4 focuses on measurement in and conversion of SI and imperial units; it also covers the use of 24-hour clock and calculation of time intervals. Revision and consolidation of work studied so far Compare and classify geometric shapes (incl. regular/irregular & types of triangle). Illustrate and name the radius, diameter and circumference of a circle (and known $D=2r$). Draw 2-D shapes using given dimensions and angles using a ruler and protractor. Calculate missing angle where angles meet at a point, are on a straight line or are vertically opposite Find unknown angles in any triangle, quadrilateral or regular polygon.	Calculate and understand the mean average; construct and interpret distance/time line graphs where intermediate points have meaning, including conversion line graphs; Arithmetic, scale, prime numbers, key facts, place value, algebra, fractions, ratio, statistics Identify features and name 2d shapes Focus on properties and vocabulary eg parallel, perpendicular, angles, regular, equilateral etc Familiarise with types of quadrilaterals and triangles Problem solve and reason 2d shapes Protractor work – measuring angles and drawing 2d shapes Move on to working out angles from known facts and properties of bisecting lines
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	3 MEA Measurement; GPS Geometry: properties of shapes PS Geometry: properties of shapes; PRA Problem solving, reasoning and algebra	Calculate the perimeter of a range of 2D shapes. Recognise that shapes with the same areas can have different perimeters and vice versa. Calculate the area of triangles. Calculate the area of parallelograms.	Calculate the area and perimeter of a range of shapes and apply strategies – use strategies such as counting the squares and lxb Move on to more complex formulas for parallelograms and triangles
	4 GPD Geometry: position and direction; NPV Number and place value; PRA Problem solving, reasoning and algebra; GPS Geometry: properties of shapes	Draw and translate simple shapes on the coordinate plane, and reflect them in the axis Describe positions on the full coordinate grid (all four quadrants).	Read and plot coordinates in all four quadrants, draw and translate enlarge simple polygons using coordinates and find missing coordinates for a vertex on a polygon; draw and reflect simple polygons in both the x-axis and y-axis using coordinates;
	5 MEA Measurement; GPS Geometry: properties of shapes PS Geometry: properties of shapes; PRA Problem solving, reasoning and algebra	Recognise, describe and build simple 3-D shapes, including making nets. Calculate, estimate and compare volume of cubes and cuboids using standard units (e.g. cm^3 / m^3).	Identify 3d shapes based on shape, vertices, sides and faces Move on to nets, recognising and drawing Finally – work out area of 3d shapes using lxbxh and reasoning problems
	6 Consolidation	Consolidation of strategies taught so far this term	

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