Year 5	Maths Scheme of Learning					
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 5	 Place Value Read, write and compare numbers up to 1,000,000 Rounding to the nearest 10, 100, 1000 Roman numerals up to 1000 	Multiplication and Division A • Factors, multiples, squares, primes, cubes, multiply and divide by powers of 10	 Multiplication and division B Formal written methods Multiplication up to 4-digit x 2-digit Division 4-digit by 1-digit including remainders Solve problems with multiplication and division 	 Decimals and percentages Order and compare decimals up to 3 decimal places Round decimals Understand percentages Equivalent fractions, decimals and percentages 	 Shape Measuring, calculating and drawing angles Polygons 3D shapes 	 Negative numbers Understand negative numbers Compare and order negative numbers Find the difference between a positive and negative number
	Addition and SubtractionFractions A• Up to 4 digits using formal written methods• Compare and order fractions improper fractions and mixed number equivalent fractions, add and subtract fractions and mixed number	 Fractions A Compare and order fractions, improper fractions and mixed numbers, equivalent fractions, add and subtract fractions and mixed numbers 	 Fractions B Multiply fractions, find fractions of amounts, find the whole 	 Perimeter and Area Area and perimeter of rectangles and rectilinear shapes 	 Position and Direction Coordinates Translations Symmetry Reflection 	 Converting Units Converting metric and common imperial units Converting units of time
				 Statistics Draw and interpret line graphs, read and interpret tables and timetables 	 Decimals Add and subtract decimals Multiply and divide by 10, 100 and 1000 	 Volume Understand and compare volume and capacity

Year 6	Maths Scheme of Learning					
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 6	Autumn 1Autumn 2Spring 1Place ValueFractions ARatio• Read, write and compare numbers up to 10,000,000• Simplify, compare and order fractions• Solve problem with ratio• Round to powers of 10 up to 1000000• Add and subtract fractions including mixed numbers• Compare ratio fractions• Solve problems• Solve problems• Use scaling ar scale factors t solve problem with shapes, recipes and proportionAddition, Subtraction, Multiplication andFractions B • Multiply fractions• Use function	 Ratio Solve problems with ratio Compare ratio and fractions Use scaling and scale factors to solve problems with shapes 	Converting Units*: Convert units Calculations with metric units *Delivered during additional maths lesson	Summer 1 Position and Direction * • Read and plot coordinates in 4- quadrants • Reflection • Translation	Problem solving and investigating	
		Fractions BMultiply fractions	 recipes and proportion Algebra Use function 	 Fractions, decimals and percentages Understand and use equivalent fractions, decimals 	additional maths lesson ann Scheme	Practical Maths
	 Division Formal Methods of addition and subtraction with integers Understand and use factors, multiples, prime numbers, square and cube numbers Multiplication up to 4-digit x 2-digit Division up to 4- digit by 2-digit Solve multi-step problems 	 by integers and other fractions Divide fractions by integers Find a fraction of an amount 	 machines and inverse function machines Form expressions Substitution Use a formula Solve simple equations 	 and percentages Calculate percentage of an amount 		Linear and Non-linear
				 Volume Calculate perimeter Calculate area - rectangles, 	 Measure and draw angles - including to draw shapes accurately Calculate angles - Calculate angles - Calculate angles - Calculate angles - 	 sequences (KS3 content) Describe and continue sequences
			 Decimals Understand place value in decimals and round decimals Multiply and divide by 10, 100 and 1000 Four operations with decimals 	 triangles and parallelograms Calculate volume of a cuboid Statistics Calculate the mean Interpret pie charts, line graphs and bar charts 	 including in triangles, quadrilaterals and polygons Identify the parts of a circle Identify nets of 3D shapes 	 Recognise linear and non-linear sequences Explain the term- to-term rule of a sequence Explore special sequences - including triangular numbers and the Fibonacci sequence

Year 7	Maths Scheme of Learning					
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7	 Algebraic notation Forming expressions Inverses Substitution Generate a sequence 	ebraic notation Place Value Addition ar Forming • Using place value subtraction expressions to compare and • Mental ston nverses order numbers - formal with integers up to 1 Substitution billion and problem Sequence decimals to with integer with integers of ten and to significant division introduce standard form methods	 Addition and subtraction Mental strategies, formal written methods and problem solving with integers and decimals Multiplication and division Mental strategies, formal written methods and problem solving 	 Directed number Ordering Four operations Using a calculator Substitution Solving equations Order of operations Powers and roots 	 Constructing, measuring and using geometric notation Labelling conventions Draw and measure lines and angles Geometric properties of 2D shapes Construct triangles Draw and interpret pie 	 Developing number sense Reason from known facts Estimation Use factors Prime factorisation* Choose the most appropriate method for a calculation *Content added to this unit
	Equality and Equivalence	Fraction, decimal and percentage	with integers and decimals		charts	
	 Understanding and using equivalence 	 equivalence FDP equivalence and 	Order of operations	Addition and subtraction of fractions	Developing geometric reasoning • Calculate missing	Set notation: • Understanding set notation
	 in algebraic expressions Forming and solving simple equations Like and unlike terms Simplifying expressions 	representationsSimple pie charts	Fractions and percentages of amounts • Calculator and non-calculator	es of Calculations with integers, fractions and mixed numbers culator Converting	 angles at points, lines and in triangles and quadrilaterals Investigate angles in parallel lines Angle sum of polygons Problem solving 	Venn diagrams
		 Averages and range Working out median, mean and mode Understanding range Choosing an appropriate average 	methods Perimeter and area Perimeter and area of rectangles, parallelograms, triangles and trapezia	fluently between fractions, decimals and percentages to solve problems • Fractions in algebraic contexts		

Year 8	Maths Scheme of Learning					
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 8	 Probability The probability scale Sample spaces Probability for single events Ratio and scale Solve problems with ratio Compare ratio and fractions Divide in a given ratio Investigate pi (π) as a ratio Gradient as a ratio 	 The Cartesian plane Lines parallel to the axes Explore gradient and y-intercept of straight line graphs Explore negative gradients Links to direct proportion and to sequences Plot graphs of the form y = mx + c 	 Algebraic techniques Form and simplify expressions Substitution Expand and factorise brackets Form and solve equations inc. with brackets and unknowns on both sides Formulae, expressions, equations and identities 	 Fractions and percentages Equivalence of fractions, decimals and percentages Fractions, decimals and percentages of amounts Percentage increase and decrease Calculator methods Percentage change 	 Angles in parallel lines and polygons Calculate missing angles at points, lines and in triangles and quadrilaterals Investigate angles in parallel lines Angle sum of polygons Problem solving Constructions Properties of quadrilaterals 	 Data Handling Questionnaires Draw and interpret a range of charts and graphs Identify misleading graphs
	 change Direct proportion in context Direct proportion graphs Scale factors Map scales Similar shapes Multiply and divide Fractions Calculations with integers, fractions and mixed numbers 	 represent data Draw and interpret scatter graphs Types of data Represent data in frequency tables Two-way tables Probability Sample spaces for more than one event Probability from tables and Venn diagrams 	 Generate sequences using term-to-term and position-to-term rules Find nth term Indices Simplify expressions using rules of indices 	 Problem solving Standard form Numbers in Standard form Area Numbers in Calculate with numbers in triation Kandard form Trational indices Rounding Estimation Line secontext Metric Metric Conversions 	 Area Area of rectangles, parallelograms, triangles and trapezia Compound shapes Area of circles Problem solving Line symmetry and reflection Line symmetry Reflect in vertical, horizontal and diagonal lines 	 Averages Understand and use median, mean and mode Outliers Understanding range Choosing an appropriate average Find the mean from grouped and ungrouped frequency tables