

Year 7

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Making generalisations about the number system 1						Making generalisations about the number system 2					
	Numbers and numerals	Axioms and arrays		Factors and multiples		Order of operations	Positive and negative numbers			Expressions, equations and inequalities		
Spring	2-D geometry						The Cartesian plane					
	Angles		Classifying 2-D shapes		Constructing triangles and quadrilaterals		Coordinates		Area of 2-D shapes		Transforming 2-D figures	
Summer	Fractions						Ratio and proportion					
	Prime factor decomposition		Conceptualising and comparing fractions		Manipulating and calculating with fractions			Ratio		Percentages		

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Autumn	Making generalisations about the number system 1						Making generalisations about the number system 2					
	Number systems and the axioms <ul style="list-style-type: none"> Place value systems including base 10 and other bases Commutativity, associativity and distributivity 			Factors and multiples and order of operations <ul style="list-style-type: none"> Factors, primes and multiples Square and cube numbers Representing the structure of number Establishing the order of operations 			Positive and negative numbers <ul style="list-style-type: none"> Negative numbers in context Using negative numbers with all four operations 			Expressions, equations and inequalities <ul style="list-style-type: none"> Writing expressions Recognising equivalent expressions Forming equations Forming inequalities 		
Spring	2-D geometry						The Cartesian plane					
	Angles <ul style="list-style-type: none"> Measuring and drawing angles Angles on a straight line and around a point Angles in parallel lines Creating expressions from angle facts 		Classifying 2-D shapes <ul style="list-style-type: none"> Classifying polygons according to their properties Rotational and line symmetry Internal angle sum of triangles and quadrilaterals 		Constructing triangles and quadrilaterals <ul style="list-style-type: none"> Using a ruler, protractor and compasses to construct 2-D shapes Using properties of quadrilaterals and triangles to explore standard constructions. 		Coordinates <ul style="list-style-type: none"> Plotting points in all four quadrants Horizontal and vertical lines Midpoints of line segments Problem solving on a coordinate grid 		Area of 2-D shapes <ul style="list-style-type: none"> Area of triangles and quadrilaterals Formulae and solving equations 		Transforming 2-D figures <ul style="list-style-type: none"> Translation, rotation and reflection of an objects on a cartesian plane Enlargement by a positive scale factor 	
Summer	Fractions						Ratio and proportion					
	Primes, factors and multiples <ul style="list-style-type: none"> Prime factor decomposition LCM and HCF Square roots and cube roots 		Fractions <ul style="list-style-type: none"> Equivalent fractions Converting between fractions and decimals Recurring decimals Multiply and divide fractions Fractions of amounts Mixed numbers and improper fractions Addition and subtraction of fractions 				Ratio <ul style="list-style-type: none"> Ratio notation Understand the relationship between ratio and fractions Working with ratios and quantities 		Percentages <ul style="list-style-type: none"> Equivalence to fractions and decimal fractions Percentage of an amount Percentage increase and decrease Finding the original amount Using percentages, fractions and decimals in different contexts including probability 			

Year 8

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Equations and inequalities 1						Equations and inequalities 2					
	Sequences		Forming and solving equations		Forming and solving inequalities		Linear graphs			Accuracy and estimation		
Spring	Proportional reasoning						Representations and reasoning with data					
	Ratio	Real life graphs and rate of change		Direct and inverse proportion			Univariate data			Bivariate data		
Summer	Angles						Area, volume and surface area					
	Angles in polygons			Bearings			Circles and composite shapes		Volume and Surface area of prisms			

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Autumn	Equations and inequalities						Graphs					
	Sequences <ul style="list-style-type: none"> Use geometric patterns to derive sequences Derive sequences from different contexts Find the nth term of a linear sequence 		Forming and solving equations <ul style="list-style-type: none"> Forming algebraic equations Solving equations with unknowns on both sides 		Forming and solving inequalities <ul style="list-style-type: none"> Language and symbols Using a number line Forming and solving algebraic inequalities 		Linear graphs <ul style="list-style-type: none"> Plot coordinates to generate straight lines Identify key features of a linear graph Make links between algebraic and linear representations. Identify parallel lines from algebraic equation 		Accuracy and estimation <ul style="list-style-type: none"> Rounding to a given number of decimal places and significant figures Upper and lower bounds Estimation 			
Spring	Proportional reasoning						Representations and reasoning with data					
	Ratio, real life graphs and rate <ul style="list-style-type: none"> Review Year 7 ratio Scales and reading maps Read and interpret real life graphs Rates of change including SDT 			Direct and inverse proportion <ul style="list-style-type: none"> Similarity as an example of direct proportion Represent proportional relationships algebraically, in a table and on graphs 			Univariate data <ul style="list-style-type: none"> Construct and interpret charts and graphs Mean, mode, median and range Examine outliers 		Bivariate data <ul style="list-style-type: none"> Scatter graphs Correlation Constructing a line of best fit Interpolation and extrapolation 			
Summer	Angles						Area, volume and surface area					
	Parallel lines <ul style="list-style-type: none"> Review Year 7 Angles in polygons <ul style="list-style-type: none"> Review of Year 7 angles Define the sum of interior and exterior angles of polygons Solve problems involving angles in polygons 			Bearings <ul style="list-style-type: none"> Understand the conventions of bearings Calculate and measure 			Circles and composite shapes <ul style="list-style-type: none"> Explore relationship between radius and the circumference and area Use circle formulae Area and perimeter of composite shapes 		Volume and surface area of prisms <ul style="list-style-type: none"> Use the formulae to calculate the volume of cubes, prisms and composite solids. Recognising and drawing nets of prisms. Use the formulae to calculate the surface area of cubes, prisms and composite solids 			