MATHS - KS3 Key Concept Overview

YEAR		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
7	Key Concept	Algebraic thinking	Place value and proportion	Reasoning and problem solving with addition and subtraction	Reasoning and problem solving with multiplication and division	Directed number & Fractional thinking	Reasoning with lines angles and probability
	Overview	 Understand and use algebraic notation Equality and equivalence Sequences 	 Place value and ordering integers and decimals Fraction, decimal and percentage equivalence Prime numbers and proof 	 Solving problems with addition and subtraction Averages 	 Solving problem with multiplication and division Fractions and percentages of amounts 	 Operations and equations with directed number Addition and subtraction of fractions 	 Constructing, measuring and using geometric notation Developing geometric reasoning Sets and probability
8	Key Concept	Reasoning and Applications of Number	Algebraic Techniques and Proportional Reasoning	Representations	Algebraic Techniques and Standard Index From	Developing Geometry	Reasoning with data
	Overview	 Number sense Fractions and Percentages Multiplying and Dividing Fractions 	 Sequences Prime Numbers and Proof Ratio and Scale Multiplicative Change 	 Working in the cartesian plane Tables and Probability 	 Brackets, Equations and Inequalities Indices Standard Index form 	 Angles in parallel lines and polygons Area of trapezia and circles Line symmetry and reflection 	 Representing data The data handling cycle Measures of location
9	Key Concept	Reasoning with algebra	Constructing in 2 and 3 dimensions	Reasoning with number	Reasoning with algebra and Geometry	Reasoning with number and proportion	Representations
	Overview	 Straight line graphs Algebraic representation 	 Three dimensional shapes Constructions and Congruency 	 Fractions and Decimals Percentage change 	 Forming and solving equations Pythagoras' Theorem 	 Indices, standard form and surds Rates and Measure 	 Scatter graphs and outliers Accuracy and Bounds Transformations Probabilities