Maths

	Module One	Module Two	Module Three	Module Four	Module Five
Y7	Topic: Number	Topic: Algebra	Topics: Ratio and Proportion	Topics: Geometry and Measure	Topics: Probability and Statistics
	 Key Learning: Rounding and estimating Bidmas and number laws Operations with fraction and decimals Factors and multiples and primes Multiplying and dividing by powers of 10 	 Key Learning: Solving linear equations Algebraic manipulation Expanding and factorising Linear graphs Working with formulae Sequences 	 Key Learning: Working with percentages and percentage change Working with ratio Standard units Using ratio to read maps and scales 	 Key Learning: Interpreting maps and scale drawings. Angle geometry Transformations Area and perimeter Volume and surface area Similarity and congruence 	 Key Learning: The probability scale and probability of exhaustive events Probabilities of single and combined events Theoretical and experimental probabilities and expected and relative frequencies Constructing sample space diagrams Displaying data and calculating averages
	Assessment: topic test	Assessment: two topic tests	Assessment: topic test	Assessment: Two cumulative assessments	Assessment: End of year assessments

Maths

	Module One	Module Two	Module Three	Module Four	Module Five
Y	Topic: Number	Topic: Algebra	Topics: Ratio and Proportion	Topics: Geometry and Measure	Topics: Probability and Statistics
	Key Learning: Rounding and limits of accuracy and calculating with bounds Powers, roots and index laws Operations with fractions Highest common factor and lowest common multiple Working with numbers in standard form	 Key Learning: Solving linear equations (including involving algebraic fractions) Expanding and factorising (linear and quadratic expressions) Understanding algebraic terminology Changing the subject of the formula, substituting into formula Equation of a straight line, parallel and perpendicular lines, further sequences 	 Key Learning: Working with percentages and repeated percentage change using multipliers Working and problem solving with ratio Understanding gradients as rates of change Direct and inverse proportion, conversion between units and compound measure 	 Key Learning: Transformations Angle geometry Area and perimeter (including compound shapes) Volume and surface area of 3D shapes including prisms Similarity and congruence, Pythagoras' theorem & trigonometry Assessment: Two	 Key Learning: Probabilities of independent and mutually exclusive events Theoretical and experimental probabilities and expected and relative frequencies Using Venn diagrams to calculate probability, constructing sample space diagrams Displaying data in Venn diagrams and calculating averages Using two-way tables and constructing frequency polygons Assessment: Two one-
	Assessment: topic test	Assessment: topic test	Assessment: cumulative assessment	cumulative assessments	hour cumulative assessments

Maths

	Module One	Module Two	Module Three	Module Four	Module Five
Y9	Topics: Number	Topics: Algebra	Topics: Ratio and Proportion	Topics: Geometry and Measure	Topics: Probability and Statistics
	Key Learning:	Key Learning:			Key Learning:
	 Estimating answers and limits of accuracy and calculating with bounds Multiplication and division with decimals Conversion between terminating and recurring decimals and fractions Powers, Index laws and operations with surds Operations with fractions and mixed numbers Prime factor decomposition and using this to find the highest common factor and the lowest common multiple of 2 or more numbers Calculations with numbers in standard form 	 Linear equations and inequalities and equations with the unknown in the denominator Expanding and factorising (linear and quadratic) Simplifying algebraic fractions Four operations with algebraic fractions Algebraic proof and understanding equivalence in algebraic expressions Changing the subject of the formula Equation of a straight line through two points, parallel and perpendicular lines, interpreting y-intercepts 	 Key Learning: Percentages and repeated percentage change using multipliers Reverse percentage Compound interest - solving problems, using multipliers and difference to simple interest Ratio - problem solving including division, merging ratio and subdividing and ratio changes. Equations from equality of ratios Gradient on a conversion graph as a rate of change, and the y-intercept as a fixed 	 Key Learning: Transformations and column vector notation Angle geometry (angles in polygons), Geometry of compound shapes, area and arc lengths of sectors Volume and surface area of 3D shapes including prisms/cylinders /pyramids and spheres Circle Theorems Similarity in 3D shapes, plans and elevations Pythagoras' theorem and trigonometry in right angled triangles Constructions 	 To find probabilities of independent and dependent combined events using tree diagrams Probabilities of independent and mutually exclusive events Theoretical and experimental probabilities and expected and relative frequencies Using Venn diagrams to calculate probability, constructing sam ple space diagrams, displaying data in Venn diagrams, and calculating averages To use two-way tables to solve probability problems To use two sets given in set notation to construct a Venn Diagram

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Module One	Module Two	Module Three	Module Four	Module Five
	and gradients in real life scenarios Solving simultaneous linear/ linear/quadratic equations Plotting quadratic and cubic graphs and finding roots and y intercepts, sequences	charge and performing conversation s outside range of values in a graph. Problem solving involving direct and inverse proportion Forming direct and inverse proportion equations from given pairs of values Conversion between units and compound measure, including density and pressure, solving problems involving average density/speed/ pressure		 To interpret a given Venn diagram to describe two sets in set notation To interpret a given Venn diagram to describe two or more sets in set notation, including their union, intersection, and complement To construct cumulative frequency tables To be able to construct piecharts To construct and interpret simple pictograms To draw cumulative frequency graphs To construct and interpret frequency polygons To use cumulative frequency graphs to estimate the median and the quartiles To use cumulative frequency diagrams to interpret the data

Maths

Module One	Module Two	Module Three	Module Four	Module Five
				 To find quartiles and IQR from cumulative frequency diagrams To draw and interpret box plots To interpret scatter diagrams
Assessment: One-	Assessment: Two one-	Assessment: One-hour	Assessment: Two one-	Assessment: Two one-
hour Assessment	hour cumulative assessments	assessment	hour cumulative assessments	hour cumulative assessments