

SUBJECT CURRICULUM OUTLINE

Term	Topic/Unit of work	Knowledge	Skills	Assessment
Summer Term 6	Integration Vectors 1 Correlation & Regression Probability Variable acceleration	Indefinite integration Definite Integration Calculating with vectors Modelling with vectors Regression Product moment correlation coefficient Rank correlation Conditional probability Modelling with probability Non-uniform acceleration Projectiles	Use and apply: four operations Comprehension Reasoning Communicating mathematically Problem solving	Internal Exam Fortnightly test Book marking
Autumn Term 1	Algebra & Functions Vectors 2 Parametric Equations Normal Distribution	Proof Expressions Functions Transformations Partial fractions Vectors in 3D Calculating with vectors Parametric equations of curves Parametric and Cartesian equations Normal distribution Normal distribution to a binomial distribution Probability distributions Hypothesis testing	Use and apply: four operations Comprehension Reasoning Communicating mathematically Problem solving	Internal Exam Fortnightly test Book marking
Autumn Term 2	Differentiation 2 Trigonometry 2	Points of inflection Chain, Product and Quotient rules Differentiation of exponentials and logs Differentiation of trig Differentiation of parametric equations Connected rates of change Implicit differentiation Arcs and sectors	Use and apply: four operations Comprehension Reasoning Communicating mathematically Problem solving	Fortnightly test Book marking

SUBJECT CURRICULUM OUTLINE

	Numerical methods Sequences & Series	Small angle approximations Inverse trig functions Cosec, Sec and Cot Addition and double angle formulae R-addition formulae Modelling with trig Locations of roots Iterative methods and graph sketching Newton-Raphson Trapezium rule Arithmetic sequences and series Geometric sequences and series		
Spring Term 1	Integration 2 Binomial 2	Integration of $(a+bx)^n$ Integration of trig functions Integration of compound functions Integration using reverse chain rule Integration and trig identities Parametric integration Integration by substitution Integration by parts Integration using partial fractions Differential equations Binomial expansion Approximations Binomial expansion and partial fractions	Use and apply: four operations Comprehension Reasoning Communicating mathematically Problem solving	Fortnightly Test Book marking
Spring Term 2	Pure Revision Statistics Revision Mechanics Revision	Past paper questions Recap and review	Use and apply: four operations Comprehension Reasoning Communicating mathematically Problem solving	Internal Exam Fortnightly Test Book marking
Summer Term 1	Pure Revision Statistics Revision Mechanics Revision	Past paper questions Recap and review	Use and apply: four operations Comprehension Reasoning Communicating mathematically Problem solving	Fortnightly Test Book marking A-level examinations