



SUBJECT: Curriculum Overview

Year 13

Half Term	Topic studied	What will I learn?	How will I be assessed?
Year 13 Autumn 1	Algebra and Geometry	-Sequences; arithmetic and geometric, as well as recurrence relations. Sum of terms. - Binomial Expansion; using an index which is negative or functional, applying to partial fractions - Trigonometric Ratios; sec, cosec and cot. - Radians; length of arc, and sector area	Test in penultimate week before October HT. <i>Informal assessments after each unit</i>
Year 13 Autumn 2	Algebra and Geometry	-differentiation; product, quotient and chain rules - numerical methods; solving exponentials and using Newton Raphson. - trig modelling; double angle formulae, modelling trig identities. -parametric equations - 3D vectors -integration; multi-ple methods + trapezium rule	No formal test <i>Informal assessments after each unit</i>
Year 13 Spring 1	Statistics and Mechanics	-regression, correlation and hypothesis testing involving PMCC and line parameters. -probability; conditional involving set notation and Venn diagrams -Normal probability distribution. -Moments, friction and resolving forces in Mechanics -Projectiles at any angle	Mock exams; 2 hour Pure and 75 minutes Applied Paper. <i>Informal assessments after each unit</i>
Year 13 Spring 2	Mechanics (and Pure)	-application of forces, modelling, dynamics and combined particles. -further kinematics; vectors, projectiles, variable acceleration.	Test in the week before Easter break. <i>Informal assessments after each unit</i>

Year 13 Summer 1	Revision	-the complete course will have been taught at some point after Easter, so revision in class before exam leave.	No formal test this half term. <i>Informal assessments after each unit</i>
Year 13 Summer 2			Exams; 3 A Level exams; 2 Pure and 1 Applied paper.