SIR GRAHAM BALFOUR SCHOOL

CURRICULUM OVERVIEW – KEY STAGE 5 MATHEMATICS

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 12	➢ Equations & Inequalities ➢ Surds and indices ➢ Probability ➢ Quadratic functions	➢ Trigonometry ➢ Polynomials ➢ Coordinate Geometry ➢ Graphs and transformations	➢ Kinematics ➢ Collecting and representing data ➢ Differentiation ➢ Exponentials and logarithms	➢ Integration ➢ Vectors ➢ Variable Acceleration	➢ Binomial Expansion ➢ Forces and Newton's laws ➢ Binomial Distribution	➢ Statistical Hypothesis testing using a large data set ➢ **Revision**
Year 13	➢ Trigonometry ➢ Differentiation ➢ Functions ➢ Further differentiation ➢ Trigonometric functions ➢ Sequences and series ➢ Trigonometric Identities	➢ Algebra ➢ Integration ➢ Probability ➢ Parametric equations ➢ Statistical distributions ➢ Vectors	➢ Forces and motion ➢ Kinematics in 2D ➢ A model for friction ➢ Projectiles ➢ Moments ➢ Differential equations	➢ Numerical methods ➢ Statistical hypothesis testing ➢ **Revision**	➢ **Revision**	