A LEVEL CURRICULUMOVERVIEWFORTHE MATHEMATICS DEPARTMENT **EXAM BOARD:EDEXCEL (9MA0)**

HEAD OF DEPARTMENT: MR TUDOR **KEY STAGE COORDINATOR: MISS PARTON**

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
	Attentive & Discerning	**Faith-filled & hopeful**	**Intentional & prophetic**	**Compassionate & Loving**	**Learned & Wise**	**Curious & Active**
Year 12 Teacher 1	Quadratics (3 hrs) Equations and Inequalities (6 hr) Algebraic division, factor theorem and proof (8hrs) Modelling in mechanics (1 hr) Kinematic graphs – displacement, velocity and acceleration (2 hrs)	Kinematics (10 hrs) Trigonometric identities and equations (10 hrs) Trigonometric ratios and graphs (3 hrs)	Trigonometric ratios and graphs (3 hrs) Differentiation (11 hrs)	Integration (11 hrs) Vectors (3 hrs)	Vectors (6 hrs) Forces (10 hrs)	Variable acceleration (8 hrs) Y12 content completed Insight into A Level content
Year 12 Teacher 2	Algebraic Expressions (2 hrs) Graphs (6hrs) Straight line graphs (5 hrs)	Circles (4 hrs) Data collection (1 hr) Measures of location and spread (5 hrs) Representation of data (4 hrs)	Exponentials (8 hrs) Correlation (4 hrs)	Probability (6 hrs) Binomial expansion (4 hrs)	Binomial expansion (3 hrs) Statistical distributions (5 hrs)	Hypothesis testing (7 hrs) Y12 content completed Insight into A Level content
Year 13 Teacher 1	Radians (6 hrs) Trigonometric functions (5 hrs) Trigonometry and modelling (9 hrs)	Forces and friction (6 hrs) Differentiation (11 hrs) Moments (4 hrs0	Applications of forces (6 hrs) Integration (12 hrs)	Numerical methods (6 hrs) Projectiles (4 hrs) Parametric equations (5 hrs) Further kinematics (6 hrs)	Revision	A Level Examinations
Year 13 Teacher 2	Proof (3 hrs) Algebraic and partial fractions (2 hrs) Binomial theorem (5 hrs) Functions and modelling (4 hrs)	Functions and modelling (4 hrs) Conditional probability (5 hrs) Sequences and series (3 hrs)	Series and sequences (5 hrs) The normal distribution (7 hrs)	The normal distribution (4 hrs) 3D Vectors (4 hrs)	Regression and correlation (5 hrs) Revision	A Level Examinations