

HIGHER OUTLINE OF COURSE

EXPRESSIONS & FUNCTIONS	Periods	RELATIONSHIPS & CALCULUS		APPLICATIONS	
1.1 Logs and Exponentials Simple Log & Exp equations Laws of logs and exp Applications	8	1.1 Solving Algebraic Equations Factorising polynomials Remainder Theorem Applications (October test)	4 Oct Hol 6	(Relationships and Calculus) RC 1.4 Integration Integrating polynomials Integrating $(px + q)^n$ Integrate $p\sin(qx + r)$ Differential equations Definite Integrals for polynomials & trig functions REVISION & PRELIMS	9
1.2 Trig Expressions Exact values, Radians Addition & Double Angle Form Wave Function	6 Summer Holidays 4	1.2 Solving Trig Equations Equations - degrees and radians Compound angle equations Equations involving identities Equations involving wave function	9		
1.3 Related Functions Graphs of related functions Composite Functions Inverse Functions	11	1.3 Differentiation Gradient function Differentiation of polynomials Differentiation of trig functions Chain Rule Equation of tangents Stationary points Curve sketching ** Graphs of $f'(x)$ E&F 1.3	16	APP 1.4 Application of Calculus Applying Calculus to calculate:- ➤ Optimisation ➤ Area between line/ curve ➤ Area between 2 curves	6
1.4 Vectors Unit vectors i, j, k Position vectors Internal division of line Collinearity Scalar Product & properties Perpendicular vectors	12	(Applications) 1.1 Equations of lines Parallel and Perpendicular lines Collinearity Gradients and Angles Median, Altitude, Perpendicular Bisector and Angle bisector	6	1.2 Circles Circle equation $(x-a)^2+(y-b)^2=r^2$ General equation of circle Tangency Intersecting circles	6
		1.3 Sequences Nth term formulae Recurrence Relations Limits of a sequence	4		