PROGRAMME OF STUDY

KS5 YEARS 12 & 13 FURTHER MATHEMATICS 2023/24

YEAR	TERM 1 (Autumn)		TERM 2 (Spring)		TERM 3 (Summer)	
YEAR 12	Algebraic Fractions Quadratics Equations and inequalities Binomial Data collect Location and spread Representation of data Graphs & transformations Straight line graphs Circles Correlation Probability Differentiation	Integration Algebraic Methods Models Statistical distribution Hypothesis tests Trig ratio Models Constant Acceleration Forces Trig ratio Trig identities Vectors	Forces Variable acceleration Exponents & logarithms End of year tests Algebraic methods Functions & graphs Regression/correlation & hypothesis test Conditional probability	Sequences Binomial expansion Radians Regression/correlation/hypothesis tests Conditional probability Normal distribution Trig functions Trig models Normal distribution Moments	Parametric equations Differentiation Numerical methods Forces and friction Projectiles Numerical methods Integration Application of forces Further kinematics	Cp1: Complex Numbers Argand Diagrams Series Roots of polynomials Volumes of revolution Matrices Linear transformations Proof by induction Vectors
YEAR 13	CP2: Complex Numbers Series Methods in Calculus Volumes of Revolution Polar co-ordinates Hyperbolic Functions Methods in Differential Equations Modelling with differential Equations		Then pupils have the choice of 2 modules from Further Statistics 1 Decision Mathematics 1 Further Mechanics 1 Further Pure 1 Further Statistics 2 Decision Mathematics 2 Further Mechanics 2 Further Pure 2		Revision External exams	