MATHS KS5 – Curriculum Plan

	12 Au (PURE)	12 Au (APPLIED)	12 Sp (PURE)	12 Sp (APPLIED)	12 Su (PURE)	12 Su (APPLIED)	13 Au (PURE)	13 Au (APPLIED)	13 Sp (PURE)	13 Sp (APPLIED)	13 Su (PURE)	13 Su (APPLIED)
Knowledge	The binomial expansion. Algebraic methods. Quadratics. Equations and inequalities. Graphs and transformations. Straight lines. Vectors.	***(Help out with PURE content during first 3 weeks)*** Data Collection. Measures of location and spread. Representations of data. Correlation.	Circles. Trigonometric ratios. Trigonometric identities and equations. Differentiation. Begin Integration.	Modelling in mechanics. Constant acceleration. Probability. Statistical distributions. Forces and motion	Complete Integration. Exponentials and logarithms. **BEGIN Yr 13 work** Algebraic methods Binomial expansion. Vectors. Radians	Hypothesis testing. Variable acceleration. ***(Help out with PURE content during last half-term)***	Functions and graphs. Sequences and Series. Trigonometric functions. Trigonometry and modelling.	Regression, correlation and hypothesis testing. Moments. Conditional probability. Forces and friction. Projectiles.	Parametric equations. Differentiation. Integration. Numerical methods.	Normal distribution. Application of forces. Further kinematics.	**REVISION (3/4 weeks)**	