Curriculum Subject: Further Mathematics KS5 (Broad List of topics repeated in Year 12 & Year 13)
Note these may be changed in light of students' HE choices and interests

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
YEAR 12	**Pure Mathematics -**	**Pure mathematics/Decision and mechanics**	**Decision and mechanics**	**Decision and mechanics**	**Decision and Mechanics/pure mathematics –**	**Pure mathematics**
	Complex numbers, matrices and vectors.	Roots, vectors, roots, volumes of revolution. Work and impulse	Work energy and power Elastics Algorithms and networks Introduction to calculus	Elastics and collisions Algorithms and networks Linear programming	Elastics and collisions Algorithms and networks Simplex method Critical Path Analysis Review of pure from term 2	Further Complex numbers Series
YEAR 13	**Pure Mathematics -**	**Pure mathematics**	**Pure mathematics**	**Pure Mathematics -**	**Mechanics and statistics**	**External exams**
	Methods in calculus Volumes of revolution Polar coordinates	Hyperbolic functions Differential equations	Differential equations and modelling.	Review of mechanics and decision.	Review	

St Bede's Curriculum Design Principles

Within subjects: depth, relevance, sequencing, spacing

Between subjects: breadth, cultural capital, coherence, progression, interlinking