

Further Mathematics at Samuel Whitbread Academy
Curriculum Sequencing

Year 12:

Course	Year	Term	Big Ideas	Subject Learning Checklist
Further Maths AS	12	Term 1 63	Core Pure (AS) Decision 1	Matrices Algebra and functions Complex numbers Vectors Algorithms and Graph Theory Sorting algorithms Route inspection
		Term 2 54	Core Pure (AS) Decision 1 Further Mechanics 1	Proof by Induction Further Calculus Matrices Linear Programming Critical Path analysis Momentum and Impulse Work, Energy and Power Elastic Collisions in one dimension
		Term 3 54	Revision and preparation for external exam	Revision and preparation for external exam

Year 13:

Course	Year	Term	Big Ideas	Subject Learning Checklist
Further Maths A2	13	Term 1 63	Core Pure (A2) Further Mechanics 1 Decision 1	Complex Numbers Hyperbolic Functions Polar Coordinates Momentum and Impulse Critical path analysis Linear programming
		Term 2 54	Core Pure (A2) Further Mechanics 1 Decision 1	Differential equations Elastic Springs and strings Elastic collisions in two dimensions Linear programming Algorithms
		Term 3 54	Revision and preparation for external exam	Revision and preparation for external exam