

Curriculum Map – Further Maths

Year 12 Further Maths	Autumn 1		Autumn 2	Spring 1		Spring 2	Summer 1	Summer 2
Topic	Basic algebra (9 hours) Polynomials (4) Graphs and transformations (4) Functions (6) Binomial theorem (4) Circles and lines, Intersections of lines (5) Trigonometry 1 (AS) (4 hours) Trigonometry 2 (4) Trigonometric functions (4) Kinematics (10)	Mock Week 1	Exponentials and logarithms (6) Vector geometry (4) Vectors (2) Differentiation 1 (AS) (8) Differentiation 2 (6) Integration 1 (AS) (2) Trigonometric identities (5) Proof (5) Forces and Newton's laws of motion (8) Forces and motion (3)	Integration 1 (AS) (6) Integration 2 (12) Sequences and series (6) Moments of forces (3) Model for friction (3) General binomial expansion and partial fractions (5) Differential equations (2) Kinematics (2)	Mock Week 2	Data Collection (4) Data processing (6) Probability (6) Binomial distribution (4) Hypothesis testing 1 (AS) (5) Normal distributions (4) Hypothesis testing 2 (3) Differential equations (cont.) (2) Parametric equations (5) Numerical methods (4) Projectiles (3) Variable acceleration (5)	Complex Numbers (21) Series (4) Volumes of revolution (5) Algorithms and graph theory (17) Algorithms on graphs (13)	Roots of polynomials (7) Matrices (8) Algorithms on graphs (continued, 15)
Assessment	Basic skills assessment		Topic assessments	Mock week 2		Topic assessments	Topic assessments	Transition exam