

Year 13 Further Maths Scheme of Work

2022 - 2023

Overview – Year 13 FM Core Pure

Autumn half term 1	CORE PURE 1 Chapter 1 Complex numbers	CORE PURE 1 Chapter 2 Argand Diagrams	CORE PURE 1 Chapter 3 Series	CORE PURE 1 Chapter 4 Roots of polynomials	CORE PURE 1 Chapter 5 Volumes of revolution
Autumn half term 2	CORE PURE 1 Chapter 6 Matrices	CORE PURE 1 Chapter 7 Linear transformations	CORE PURE 1 Chapter 8 Proof by induction	CORE PURE 1 Chapter 9 Vectors	
Christmas holidays					
Spring half term 1	CORE PURE 2 Chapter 1 Complex numbers	CORE PURE 2 Chapter 2 Series	CORE PURE 2 Chapter 3 Methods in Calculus	CORE PURE 2 Chapter 4 Volumes of revolution	
Spring half term 2	CORE PURE 2 Chapter 5 Polar coordinates	CORE PURE 2 Chapter 6 Hyperbolic functions		CORE PURE 2 Chapter 7 Methods in differential equations	
Easter holidays					
Summer half term 1	CORE PURE 2 Chapter 8 Modelling with differential equations		Consolidation/Revision		
Summer half term 2	Public Exams				

Overview – Year 13 FM Applied

Autumn half term 1	Further Mechanics 1 Chapter 1 Momentum and impulse	Further Statistics 1 Chapter 1 Discrete random variables	Decision 1 Chapter 1 Algorithms	Further Mechanics 1 Chapter 2 Work, energy and power	Further Statistics 1 Chapter 2 Poisson distributions	
Autumn half term 2	Decision 1 Chapter 2 Graphs and networks	Further Mechanics 1 Chapter 3 Elastic strings and springs	Further Statistics 1 Chapter 3 Geometric and negative binomial distributions	Decision 1 Chapter 3 Algorithms on graphs	Further Statistics 1 Chapter 4 Hypothesis testing	Further Statistics 1 Chapter 5 Central limit theorem
Christmas holidays						
Spring half term 1	Decision 1 Chapter 4 Route inspection	Decision 1 Chapter 5 The travelling salesman problem	Further Mechanics 1 Chapter 4 Elastic collisions in one dimension	Further Mechanics 1 Chapter 5 Elastic collisions in two dimensions	Further Statistics 1 Chapter 6 Chi-squared tests	
Spring half term 2	Decision 1 Chapter 6 Linear programming	Decision 1 Chapter 7 The simplex algorithm	Further Statistics Chapter 7 Probability generating functions	Decision 1 Chapter 8 Critical path analysis		
Easter holidays						
Summer half term 1	Further Statistics 1 Chapter 8 Quality of tests	Consolidation/Revision				
Summer half term 2	Public Exams					