Further Mathematics A-Level Curriculum & Course Overview 2025/2026

Subject: Further Mathematics A-Level	
Key Stage:	KS5
Examining Board:	Edexcel
Specification:	https://qualifications.pearson.com/content/dam/pdf/A Level/Mathematics/2017/specification-and-sample-assesment/a-level-l3-further-mathematics-specification.pdf
Minimum entry grade:	GCSE Grade 8
Class size:	One class. 2024-25 cohort comprises 18 students.
Maths and Further Maths A Level Course Structure:	• Year 12: All of Maths A Level content & Further Maths Core Pure 1 • Year 13: Further Maths A Level Core Pure 2, Further Mechanics 1, Further Pure 1 plus Revision • All exams take place at the end of Year 13: Maths A Level and Further Maths A Level (7 papers) • Two lessons a day plus 1.5 – 2 hrs daily independent study. • Weekly assessments plus mandatory Friday resit if < 70%.
Further Maths A Level Predicted Grades:	▪ Predicted Grades are required for university applications at the start of Year 13. ▪ Predicted Grades are awarded for Maths A Level at the end of Year 12 based on: ○ January and May Mock Exams ○ Weekly assessments ○ In- class performance ○ Quality and extent of independent study ○ Level of effort ▪ Predicted Grades are awarded for Further Maths A Level based on all of the above, plus Further Maths Mock exam at the very start of Year 13.
Further Maths A Level Assessment:	▪ Four written exams @ 1.5 hours (equal weighting – 75 marks each) ○ Paper 1 – Core Pure 1 ○ Paper 2 – Core Pure 2 ○ Paper 3 – Further Mechanics 1 ○ Paper 4 – Further Pure 1 ▪ No coursework.
Homework:	Daily homework (1.5 - 2 hours) – Pearson Active Learn Questions through online textbook. Posted on TEAMS, due the following day. Worked solutions available to students on physicsandmathstutor.com.
Calculator required:	Scientific calculator: Casio fx-991CW (July25: £19 - £21) Graphing calculator (recommended): Casio fx-CG50 (July25: £95 - £115)

Further Maths Topic Summary:	<u>Core Pure (CP1 and CP2): New topics plus A Level topics in greater depth</u> ❖ New: Complex numbers ❖ New: Matrices ❖ New: Polar coordinates ❖ New: Hyperbolic functions ❖ New: Proof by induction ❖ Depth: Further Integration ❖ Depth: Further Differential equations ❖ Depth: Series ❖ Depth: Vectors <u>Further Mechanics 1 (FM1): requires physics-style thinking, geometry</u> ❖ Collisions ❖ Energy ❖ Elastic Strings and Springs <u>Further Pure 1: requires strong algebraic manipulation and spotting shortcuts</u> ❖ Vectors ❖ Conics ❖ Calculus ❖ Series and Limits

Holland Park Resources:	⇒ Pearson Active Learn hard copy and online textbooks ○ Core Pure 1 (CP1) ○ Core Pure 2 (CP2) ○ Further Mechanics 1 (FM1) ○ Further Pure 1 (FP1) ⇒ CGP AS and A Level Further Maths Revision: a limited number of hard copy textbooks ⇒ Hard copy notes for every lesson. Also posted on TEAMS with worked solutions to facilitate catch up on any missed lessons. ⇒ Knowledge Organisers ⇒ Revision Checklists ⇒ KS5 Padlet
Additional recommended platforms:	◊ Physicsandmathstutor.com: textbook worked solutions; all AS and A Level past papers, Mark Schemes and Examiner Reports; practice questions by topic https://www.physicsandmathstutor.com/ ◊ BICEN MATHS clear explanations for the Edexcel curriculum, plus 'All you need to know' summaries, 'Hardest exam questions'. Free for Core Pure 1. Pay wall for CP2, FM1, FP1. https://www.youtube.com/@BicenMaths ◊ TL Maths, alternative clear explanations on A Level topics (OCR curriculum) ◊ NUMBERPHILE: experts explore maths ideas and problems in engaging ways https://www.youtube.com/@numberphile ◊ 3blue1brown: Grant Sanderson's accessible channel with more rigorous and advanced mathematics https://www.youtube.com/@3blue1brown

Revision resources:	KS5 Padlet: Knowledge Organisers, Revision Checklists, Topic Summaries, Exam questions by topic
Edexcel revision guide:	Recommended CGP Revision Textbook for Edexcel: https://www.cgpbooks.co.uk/secondary-books/as-and-a-level/maths/further-maths/mfer72-a-level-as-further-maths-for-edexcel
Teacher contacts:	KS5 Lead: Ms Cornes – dianne.cornes@hollandparkschool.co.uk