

A Level Mathematics Curriculum & Course Overview 2025/2026

Subject: A-Level Mathematics	
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-mathematics-specification-issue4.pdf
Minimum entry grade:	GCSE Grade 7
Class Size:	Three groups based on timetabling. 10 – 20 students in each class.
Maths and Further Maths A Level Course Structure:	<ul style="list-style-type: none"> • Year 12: All of Maths AS Level content (Pure Mathematics, Statistics and Mechanics) plus two A Level Year 2 Pure Mathematics topics. • Year 13: A Level Year 2 Pure Mathematics remaining topics; Year 2 Statistics; Year 2 Mechanics. Some Revision time, but very limited compared to GCSE. • One lesson a day plus minimum 1 hr daily independent study. • Weekly assessments plus mandatory Friday resit if < 70%. • Yr 12 and Yr 13: Two interventions per week, 3pm – 4pm. Mandatory for students working at or below Grade C.
Maths A Level Predicted Grades::	<ul style="list-style-type: none"> ▪ Predicted Grades are required for university applications at the start of Year 13. ▪ Predicted Grades are awarded at the end of Year 12 based on: <ul style="list-style-type: none"> ○ January and May Mock Exams ○ Weekly assessments ○ In- class performance ○ Quality and extent of independent study ○ Level of effort
Maths A Level Assessment:	<ul style="list-style-type: none"> ▪ End of Year 13 ▪ Three written exams @ 2 hours (equal weighting – 100 marks each) <ul style="list-style-type: none"> ○ Paper 1 – Pure 1 (all Pure topics) ○ Paper 2 – Pure 2 (all Pure topics) ○ Paper 3 – Statistics (50%), Mechanics (50%) ▪ No coursework.
Homework:	Daily homework (1 - 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)

<p>A Level Maths Topic Summary:</p>	<p>A Level Maths builds directly on GCSE, which is deemed assumed knowledge. Some topics extend GCSE maths; some topics are entirely new.</p> <p><u>Pure Mathematics:</u></p> <ul style="list-style-type: none"> ❖ Extend: Algebra and Functions ❖ Extend: Co-ordinate Geometry ❖ Extend / New: Sequences and Series ❖ Extend / New: Trigonometry ❖ New: Differentiation ❖ New: Integration ❖ New: Proof ❖ Extend: Vectors ❖ New: Exponentials, Logarithms ❖ New: Numerical Methods <p><u>Statistics:</u></p> <ul style="list-style-type: none"> ❖ Extend: Data Handling ❖ Extend: Probability ❖ Extend: Regression ❖ New: Probability Distributions ❖ New: Binomial Distribution ❖ New: Normal Distribution ❖ New: Hypothesis Testing <p><u>Mechanics:</u></p> <ul style="list-style-type: none"> ❖ Extend: Motion with constant acceleration ❖ New: Motion with varied acceleration ❖ New: Application of forces ❖ New: Moments ❖ New: Combined situations
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<p>Holland Park Resources:</p>	<ul style="list-style-type: none"> ⇒ Pearson Active Learn hard copy and online textbooks <ul style="list-style-type: none"> ○ Pure Year 1 ActiveBook (hard copy and online) ○ Pure Year 1 Student Practice Book (online only) ○ Pure Year 2 ActiveBook (hard copy and online) ○ Pure Year2 Student Practice Book (online only) ○ Statistics & Mechanics Year 1 ActiveBook (hard copy and online) ○ Statistics & Mechanics Year 1 Student Practice Book (online only) ○ Statistics & Mechanics Year 2 ActiveBook (hard copy and online) ○ Statistics & Mechanics Year 2 Student Practice Book (online only) ⇒ CGP Pure Mathematics Year 1: hard copy textbooks ⇒ CGP Pure Mathematics Year 2: hard copy textbooks ⇒ CGP Statistics & Mechanics Mathematics Year 1: hard copy textbooks ⇒ CGP Statistics & Mechanics Mathematics Year 2: 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
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Additional recommended platforms:	<ul style="list-style-type: none"> ◇ 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'. 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:	<p>Recommended CGP Textbooks for Edexcel and/ or the CGP Revision Guide (HPS has only a limited number), which also come with online access:</p> <ul style="list-style-type: none"> ⇒ CGP Pure Mathematics Year 1 https://www.cgpbooks.co.uk/secondary-books/as-and-a-level/maths/mepmt52-edexcel-as-a-level-mathematics ⇒ CGP Pure Mathematics Year 2 https://www.cgpbooks.co.uk/secondary-books/as-and-a-level/maths/mepmt62-edexcel-a-level-mathematics-student ⇒ CGP Statistics & Mechanics Mathematics Year 1 https://www.cgpbooks.co.uk/secondary-books/as-and-a-level/maths/mesmt52-edexcel-as-a-level-mathematics ⇒ CGP Statistics & Mechanics Mathematics Year 2 https://www.cgpbooks.co.uk/secondary-books/as-and-a-level/maths/mesmt62-edexcel-a-level-mathematics-student ⇒ CGP A Level Maths Edexcel Revision Guide https://www.cgpbooks.co.uk/secondary-books/as-and-a-level/maths/mer72-a-level-maths-edexcel-complete
Teacher contacts:	<p>KS5 Lead:</p> <p>Ms Cornes – dianne.cornes@hollandparkschool.co.uk</p>