



Further Maths

At KS5, The Palmer Catholic Academy Maths department offers an environment where students are nurtured and challenged to achieve their best grade possible.

Students follow the Edexcel linear two-year A level course and have 5 lessons per fortnight. The Further Maths course is taught alongside the A Level maths course. Core (2) and Further Mechanics modules are taught in year13 by highly qualified Maths teachers.

Our KS5 A level Further Maths curriculum is structured to allow progression of topics and to build on prior knowledge from GCSE and Additional Mathematics. The modules taught empower students to develop and apply their problem-solving skills by focusing on modelling questions based on various topics. At KS5, students are given the opportunity to communicate mathematically by noticing, making connections, explaining, justifying and proving concepts in different contexts.

	Autumn Term	Spring Term	Summer Term
Y e a r 1 2	<p style="text-align: center;">D1/M1 Teacher</p> <p>D1 Chapter 1- Algorithms and Graphs: D1 Chapter 2 - Graphs and Network D1 Chapter 3 - Algorithms for Network D1 Chapter 4 - Route Inspection: D1 Chapter 6 - Linear programming D1 Chapter 8 - Precedence Tables</p> <p style="text-align: center;">Core 1 Teacher</p> <p>Chapter 6- Matrices Chapter 7- Linear Transformations Chapter 3 (<i>start</i>) - Series Chapter 1&2 - Complex Numbers:</p>	<p style="text-align: center;">D1/M1 Teacher</p> <p>D1 Chapter 2-Graphs and Networks: D1 Chapter 4-Route Inspection: D1 Chapter 5- The Travelling Salesman Problem D1 Chapter 7- The Simplex Algorithm: D1 Chapter 1- Algorithms and Graphs:</p> <p style="text-align: center;">Core 1 Teacher</p> <p>Chapter 2 - Complex Numbers Chapter 4- Polynomials Chapter 8- Series Chapter 5- Calculus Chapter 9-Vectors</p>	<p style="text-align: center;">D1/M1 Teacher</p> <p>D1 Revision Block of exam papers</p> <p>A2 Pure Differentiation & Integration</p> <p style="text-align: center;">Core 1 Teacher</p> <p>Chapter 9- Vectors: A2 Pure Differentiation & Integration</p>
I m p a c t	<p>Topic Timed questions 30 - 40 mins Nov/ Dec Mock Feb/March Mock</p>	<p>Feb/March Mock</p>	<p>End of Year Mock</p>



	<i>AUTUMN TERM</i>	<i>SPRING TERM</i>	<i>SUMMER TERM</i>
<i>Y e a r 1 3</i>	<p>FMI Teacher Chapter 1. - Momentum and Impulse Chapter 4. - Elastic Collisions Chapter 2. - Work, Energy and Power</p> <p>Core 2 Teacher Chapter 2 - Series Chapter 1 - Complex Numbers Chapter 6 - Hyperbolic Functions Chapter 5 - Polar Coordinates</p>	<p>FMI Teacher Chapter 3 - Elastic strings and springs Chapter 5 - Elastic collisions in two dimensions</p> <p>Core 2 Teacher Chapter 4 - Volumes of revolution: Chapter 7 - Methods in Differential Equations: Chapter 8 - Modelling with differential equations:</p>	<p>FMI Teacher Block of exam papers</p> <p>Core 2 Teacher Chapter 3: Methods in calculus: Block of exam papers</p>
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