



Maths – KS5

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 course consists of Pure 1 & 2, Statistics and Mechanics and is taught by a number of well qualified teachers. Our KS5 A level 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	P1/P2 Teacher	P1/P2 Teacher	P1/P2 Teacher	P1/P2 Teacher
	Baseline Test	Pure 1 Chapter 5- Straight Line graphs Pure 1 Chapter 6- Circles Pure1 Chapter 12- Differentiation Pure1 Chapter 13- Integration Pure 1 & Pure 2- Vectors	Pure1 Chapter 9- Trigonometry Pure 1 Chapter 10- Trigonometric Identities and Equations Possibly start Chapter 14 Pure 1 Chapter 14- Exponentials and Logarithms	
	Pure 1 Chapters 1 – Algebraic Expressions: Pure 1 Chapter 2 and 3 – Quadratics, Equations and Inequalities Pure 1 Chapter 7 – Algebraic Methods Pure 2 Chapter 1- Algebraic Methods Pure 1 Chapter 4- Graphs & transformations Pure 1 Chapter 8- Binomial Expansion Pure 2 Chapter 4- Binomial Expansion	Stats/Mech Teacher	Revision classes	
	Stats/Mech Teacher	Stats Chapter 6- Statistical Distributions Stats Chapter 7- Statistical Hypothesis Testing Mech Chapter 8- Modelling in Mechanics Mech Chapter 9- Kinematics1 (Constant Acceleration)	Stats/Mech Teacher	
	Stats Chapter 1- Statistical Sampling Stats Chapter 2- Data Representation and Interpretation Stats Chapter 3- Representation of Data Stats Chapter 4- Correlation		Mech Chapter 10- Forces and Newton's Law Mech Chapter 11- Kinematics 2 (Variable acceleration)	
				REVISE MOCK CAP Mech/Stats (1.5 hours) Mock Week!



	Stats Chapter 5- Probability		Stats & Mech teacher: Chapter 2 Probability from Stats 2 Core1/D1 teacher: Chapter 9 Differentiation & Integration
I m p a c t	Timed Questions after at least every 1 or 2 topics.	Timed Questions after at least every 1 or 2 topics.	Mock at the end of Year 12



	AUTUMN TERM	SPRING TERM	SUMMER TERM
Y e a r 1 3	<p>Pure 2 teacher:</p> <p>Chapter 14 Exponentials and Logarithms Chapter 5-Radians Chapter 6- Trigonometry Chapter 7-Trigonometry Chapter 8- Parametric Equations: Chapter 9- Differentiation Chapter 2- Functions and Graphs</p> <p>Applied teacher:</p> <p>Chapter 2- Probability Stats Chapter 3- Normal Distribution Chapter 1- Regression & Correlation Mech Chapter 5- Forces & Fiction Mech Chapter 6- Projectiles</p>	<p>Pure 2 teacher:</p> <p>Chapter 11- Integration. Chapter 3- Sequences</p> <p>Applied teacher:</p> <p>Mech Chapter 4 – Moments Start Mech Chapter 7- Applications of forces Mech Chapter 8- Further Kinematics</p>	<p>Pure 2 teacher:</p> <p>Chapter 10- Numerical Methods Revision for summer exams. Exam Booklets for practice.</p> <p>Applied teacher:</p> <p>Mech Chapter 8- Further Mechanics: Stats and Mech 1 and 2 Revision Exam Booklets for practice.</p>
Im pa ct	Mock Exam	Mock Exam	