

# Bellerive FCJ Catholic College



Department: Maths

Year Group: 13

Term	Learning Focus	Key Knowledge and Skills	Assessment	Challenge and Enrichment
HT1	Pure 2 • Ch.7 Numerical Methods • Ch.8 Vectors (3-D)	Approximate roots using iteration, bisection and Newton-Raphson; model 3-D vector geometry, scalar product and lines in space.	End of chapter assessment homeworks; LP assessments in line with A-Level Calendar	Maths Genie Numerical/Vectors 3-D ( <a href="https://mathsgenie.co.uk/alevel.html">https://mathsgenie.co.uk/alevel.html</a> ); Integral Maths 3-D vectors investigations; MEI Reasoning & Proof tasks
HT2	Applied 2 • Statistics S6 Probability & Normal Distribution • Mechanics M6 Moments II, M7 Further Kinematics	Work with continuous random variables and the Normal model; use normal approximation to binomial; calculate moments in complex systems; apply calculus to motion with variable acceleration.	End of chapter assessment homeworks; LP assessments in line with A-Level Calendar	Maths Genie Normal Distribution ( <a href="https://mathsgenie.co.uk/alevel.html">https://mathsgenie.co.uk/alevel.html</a> ); Pearson Stats/Mechanics revision videos; AMSP Real Life Data tasks
HT3	Applied 2 • Statistics S7 Statistical Inference • Mechanics M8 Dynamics, M9 Projectiles	Construct confidence intervals; carry out hypothesis tests for means/proportions; model 2-D motion of projectiles under gravity; analyse connected-particle dynamics.	End of chapter assessment homeworks; LP assessments in line with A-Level Calendar	Maths Genie Hypothesis/Inference ( <a href="https://mathsgenie.co.uk/alevel.html">https://mathsgenie.co.uk/alevel.html</a> ); Pearson Mechanics projectile videos; NRICH Mechanics problems
HT4	Applied consolidation & synoptic practice	Mixed statistics and mechanics applications, multi-step modelling, interpreting results in context.	End of chapter assessment homeworks; LP assessments in line with A-Level Calendar	Edexcel large data set investigations; MEI/Integral synoptic papers; Dr Frost A-level Problem Solving set
HT5	Revision & Exam Preparation	Whole-course review, mixed papers, timed problem solving, exam technique, gap filling.	Past papers and LP assessments in line with A-Level Calendar	Edexcel past papers & mark schemes; Maths Genie full-length papers ( <a href="https://mathsgenie.co.uk/alevel.html">https://mathsgenie.co.uk/alevel.html</a> ); Pearson Exam Wizard customised papers