



CURIOSITY

COMPASSION

COURAGE



# Academic outline 2024-25

## A Level Mathematics

	Term 1 Aug-Oct	Term 2 Nov-Dec	Term 3 Jan-Feb	Term 4 Mar-Apr	Term 5 Apr-May	Term 6 Jun-Jul
Year 12:	<ul style="list-style-type: none"> <li>• Pure Chapter 1 – Algebraic Expressions <a href="#">Maths Genie Videos</a></li> <li>• Pure Chapter 2 – Quadratic Functions <a href="#">Maths Genie Videos</a></li> <li>• Pure Chapter 3 – Equations/Inequalities <a href="#">Maths Genie Videos</a></li> <li>• Pure Chapter 4 – Graphs/Transformations <a href="#">Maths Genie Videos</a></li> <li>• Pure Chapter 5 – Straight Line Graphs <a href="#">Maths Genie Videos</a></li> <li>• Pure Chapter 6 – Circles <a href="#">Maths Genie Videos</a></li> </ul>	<ul style="list-style-type: none"> <li>• Pure Chapter 9 – Trigonometric ratios and graphs <a href="#">Maths Genie Videos</a></li> <li>• Pure Chapter 7 – Algebraic Fractions/Factor Theorem/Proof <a href="#">Maths Genie Videos</a></li> <li>• Pure Chapter 11 – Vectors <a href="#">Maths Genie Videos</a></li> <li>• Applied Chapter 1 – Statistical Sampling <a href="#">Maths Genie Videos</a></li> <li>• Applied Chapter 2 – Data presentation and interpretation <a href="#">Maths Genie Videos</a></li> <li>• Applied Chapter 8 – Quantities and units in mechanics <a href="#">Maths Genie Videos</a></li> <li>• Applied Chapter 9 – Kinematics 1 <a href="#">Maths Genie Videos</a></li> </ul>	<ul style="list-style-type: none"> <li>• Pure Chapter 12 – Differentiation <a href="#">Maths Genie Videos</a></li> <li>• Applied Chapter 3 – Data presentation and interpretation <a href="#">Maths Genie Videos</a></li> <li>• Applied Chapter 4 – Data presentation and interpretation <a href="#">Maths Genie Videos</a></li> </ul>	<ul style="list-style-type: none"> <li>• Pure Chapter 10 – Trigonometric ratios and graphs <a href="#">Maths Genie Videos</a></li> <li>• Pure Chapter 8 – Binomial Expansion <a href="#">Maths Genie Videos</a></li> <li>• Applied Chapter 5 – Probability <a href="#">Maths Genie Videos</a></li> <li>• Applied Chapter 10 – Forces and Newton’s laws <a href="#">Maths Genie Videos</a></li> </ul>	<ul style="list-style-type: none"> <li>• Pure Chapter 13 – Integration <a href="#">Maths Genie Videos</a></li> <li>• Pure Chapter 14 – Exponentials and Logarithms <a href="#">Maths Genie Videos</a></li> <li>• Applied Chapter 6 – Statistical Distributions <a href="#">Maths Genie Videos</a></li> <li>• Applied Chapter 7 – Statistical Hypothesis Testing <a href="#">Maths Genie Videos</a></li> </ul>	<ul style="list-style-type: none"> <li>• Applied Chapter 11 – Kinematics 2 <a href="#">Maths Genie Videos</a></li> <li>• Y13 Pure Chapter 1 – Algebraic Methods <a href="#">Maths Genie Videos</a></li> </ul>



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Year 13:	<ul style="list-style-type: none"> <li>• Pure Chapter 2 – Functions and Graphs <a href="#">Maths Genie Videos</a></li> <li>• Pure Chapter 3 – Series and Sequences <a href="#">Maths Genie Videos</a></li> <li>• Pure Chapter 4 – the binomial theorem <a href="#">Maths Genie Videos</a></li> <li>• Pure Chapter 5 – Trigonometry (Radians and small angles) <a href="#">Maths Genie Videos</a></li> <li>• Applied Chapter 1 – Regression and correlation <a href="#">Maths Genie Videos</a></li> <li>• Applied Chapter 4 – Moments <a href="#">Maths Genie Videos</a></li> </ul>	<ul style="list-style-type: none"> <li>• Pure Chapter 8 – Parametric Equations <a href="#">Maths Genie Videos</a></li> <li>• Pure Chapter 9 – Differentiation <a href="#">Maths Genie Videos</a></li> <li>• Pure Chapter 6 – Trigonometry (secant, cosecant and cotangent) <a href="#">Maths Genie Videos</a></li> <li>• Pure Chapter 7 – Trigonometry (Compound and double angle formulae) <a href="#">Maths Genie Videos</a></li> <li>• Pure Chapter 12 – Vectors (3D) <a href="#">Maths Genie Videos</a></li> <li>• Applied Chapter 2 – Conditional probability <a href="#">Maths Genie Videos</a></li> <li>• Applied Chapter 5 – Friction and forces <a href="#">Maths Genie Videos</a></li> </ul>	<ul style="list-style-type: none"> <li>• Pure Chapter 10 – Numerical methods <a href="#">Maths Genie Videos</a></li> <li>• Applied Chapter 3 – The normal distribution <a href="#">Maths Genie Videos</a></li> <li>• Applied Chapter 6 – Applications of kinematics (Projectiles) <a href="#">Maths Genie Videos</a></li> <li>• Applied Chapter 7 – Applications of forces <a href="#">Maths Genie Videos</a></li> </ul>	<ul style="list-style-type: none"> <li>• Pure Chapter 11 – Integration <a href="#">Maths Genie Videos</a></li> <li>• Applied Chapter 8 – Further kinematics <a href="#">Maths Genie Videos</a></li> </ul>	Revision	Exams
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