

All Saints' Academy Mathematics KS5 Curriculum

A' Level

Cycle	Year 12		Enrichment	Year 13		Enrichment
	Teacher A	Teacher B		Teacher A	Teacher B	
1	<i>Pure:</i> Algebraic Expressions Quadratics and Graphs <i>Statistics:</i> Data Collection, Representation Location & Spread Correlation Probability	<i>Pure:</i> Inequalities Circles <i>Mechanics:</i> Modelling Constant Acceleration Forces	UKMT Senior Maths Challenge	<i>Pure:</i> Algebraic Methods Functions Numerical Methods <i>Statistics:</i> Regression and Correlation Hypothesis Testing Probability Normal Distribution	<i>Pure:</i> Sequences & Series Binomial Expansion Radians Trigonometric Functions <i>Mechanics:</i> Moments Forces & Friction	UKMT Senior Maths Challenge
Careers	<ul style="list-style-type: none"> • “Python for A’ Level Maths & Beyond...” Online Workshop • What is a Climate Scientist? 		Careers	<ul style="list-style-type: none"> • “Python for A’ Level Maths & Beyond...” Online Workshop • What is an Actuary? 		
2	<i>Pure:</i> Algebraic Methods Binomial Expansion Trigonometry	<i>Pure:</i> Calculus Exponentials & Logarithms	University Lecture	Parametric Equations Differentiation Integration	Vectors Projectiles Further Kinematics	University Lecture
Careers	What is a Software Engineer?		Careers	Analysing Data in Digital Media		
3	<i>Statistics:</i> Distributions Hypothesis Testing <i>Pure:</i> Algebraic Methods	<i>Mechanics:</i> Variable Acceleration <i>Pure:</i> Functions		<i>Revision and Preparation for Final Exams</i>	<i>Revision and Preparation for Final Exams</i>	
Careers	What is Location Planning?		Careers	Work in Orthotics and Prosthetics		

Further Maths AS Level

Cycle	Year 12		Enrichment	Year 13		Enrichment
	Teacher A	Teacher B		Teacher A	Teacher B	
1	<i>Pure:</i> Complex Numbers Argand Diagrams	<i>Pure:</i> Series Summation Matrices	UKMT Senior Maths Challenge	<i>Pure:</i> Volumes of Revolution <i>Decision:</i> Linear Programming	<i>Mechanics:</i> Momentum & Impulse Work, Energy & Power	UKMT Senior Maths Challenge
2	Polynomial Roots Proof by Induction	Linear Transformations Vectors	University Lecture	Critical Path Analysis	Elastic Collisions	University Lecture

3	<i>Decision:</i> Graphs & Networks Route Inspection	<i>Decision:</i> Algorithms Sorting & Packing		<i>Revision and Preparation for Final Exams</i>	<i>Revision and Preparation for Final Exams</i>	
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