

Revision (5–6 weeks from exam)

While the focus of the external exam is Units 3 and 4, parts of Units 1 and 2 will assist your revision.

Session	Topic	Subtopic	Important lessons	Done
1	Unit 1: Combinatorics, Vectors and Geometry	Combinatorics	<u>Proof of Pascal’s Triangle Identities</u>	<input type="checkbox"/>
		Vectors in the Plane	<u>Perpendicular Vectors, Parallel Vectors, Using Vector Projections</u>	<input type="checkbox"/>
2		Geometry	<u>Proof by Contradiction, Bonus Circle Geometry Questions, Using Vectors in Geometric Proofs Series</u>	<input type="checkbox"/>
	Unit 2: Trigonometry, Matrices and Complex Numbers	Trigonometry	<u>Trigonometric Identities and Equations, Trig Problems in Context</u>	<input type="checkbox"/>
3		Matrices	<u>Inverses and Determinants, Solving Simple Matrix Equations</u>	<input type="checkbox"/>
4		Real and Complex Numbers	<u>Induction Proof for Divisibility, Vector Addition and Subtraction, Complex Roots of Quadratics With Real Coefficients</u>	<input type="checkbox"/>
5	Unit 3: Complex Numbers, Functions and Graphs and 3D Vectors	Complex Numbers	<u>Modulus-Argument Form Division and Identities, Regions in the Argand Diagram (Part 1 and Part 2), Roots of Complex Numbers, Remainder Theorem and Division Theorem</u>	<input type="checkbox"/>
6		Functions and Sketching Graphs	<u>Inverse Functions – Exam Application, Functions in the Form $y=f(x)$</u>	<input type="checkbox"/>
		Vectors in Three Dimensions	<u>Using Vectors in 3-D Geometric Proofs (Part 1 and Part 2), Finding the Equation of a Plane, Using the Cross Product</u>	<input type="checkbox"/>
7	Unit 4: Integration, Differential Calculus and Statistical Inference	Rates of Change and Differential Equations	<u>Solving Differential Equations: Separation of Variables, Proving Motion Is Simple Harmonic, Applying SHM</u>	<input type="checkbox"/>
8		Integration and Applications of Integration	<u>Integrating to the Natural Logarithm, Volumes for Solids of Revolution</u>	<input type="checkbox"/>
		Statistical Inference	<u>The Normal Approximation for the Sample Mean, Calculating and Interpreting a Confidence Interval for an Unknown Population Mean</u>	<input type="checkbox"/>

Practice (3–4 weeks from exam)

Session	Topic	Subtopic	Confidence	Done
9	Unit 3: Complex Numbers, Functions and Graphs and 3D Vectors	Complex Numbers	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
10		Complex Numbers (Cont.)	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
11		Functions and Sketching Graphs	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
12		Vectors in Three Dimensions	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
13	Unit 4: Integration, Differential Calculus and Statistical Inference	Integration and Applications of Integration	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
14		Rates of Change and Differential Equations	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
15		Rates of Change and Differential Equations (Cont.)	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
16		Statistical Inference	<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>