

## Revision (5–6 weeks from exam)

Session	Topic	Subtopic	Important lessons	Done
1	Functions	Working with Functions (Algebraic Techniques, Introduction to Functions)	Set Notation, <u>Domain and Range</u> , Combinations of Functions	<input type="radio"/>
2		Working with Functions (Linear, Quadratic and Cubic Functions, Further Functions and Relations)	<u>Solving Equations Graphically</u> , <u>Sketching Basic Curves</u> , <u>Sketching Factorised Polynomials</u>	<input type="radio"/>
		Graphing Techniques	<u>Transformations Example</u> , <u>Quadratic Inequalities</u>	<input type="radio"/>
3	Trigonometric Functions	Trigonometry and Measure of Angles	<u>Applications of Trigonometry Formulae</u>	<input type="radio"/>
		Trigonometric Functions and Identities	<u>Pythagorean Identities</u> , <u>Trigonometric Equations</u> , <u>Trigonometric Equations Reducible to Quadratics</u>	<input type="radio"/>
		Trigonometric Functions and Graphs		<input type="radio"/>
4	Calculus	Introduction to Differentiation	<u>Equations of Tangents and Normals to a Curve</u>	<input type="radio"/>
		Differential Calculus	<u>Differentiating Non-e Exponential Functions</u>	<input type="radio"/>
		The Second Derivative	<u>Maximisation and Minimisation - Exam Style Examples</u>	<input type="radio"/>
		Integral Calculus	<u>Integrating Trigonometric Functions</u> , <u>Integrating to the Natural Logarithm</u> , <u>Integrating Other Exponentials</u> , <u>Trapezoidal Rule</u> , <u>Area about the Y-axis</u>	<input type="radio"/>
5	Exponential and Logarithmic Functions	Logarithms and Exponentials	<u>Logarithmic Laws</u>	<input type="radio"/>
6	Statistical Analysis	Probability and Discrete Probability Distributions	<u>Calculating Simple Probabilities</u> , Addition Rule, Conditional Probability and the Independence Rule	<input type="radio"/>
7		Descriptive Statistics and Bivariate Data Analysis	Frequency Tables and Histograms, Standard Deviation, Interpreting and Comparing Box Plots	<input type="radio"/>
		Random Variables	Probability of Observing a Value Less or Greater Than a Given Score, Probability of Observing a Value Between Two Scores	<input type="radio"/>
8	Financial Mathematics	Modelling Financial Situations	<u>Loan Repayments (Part 1)</u> , <u>Loan Repayments (Part 2)</u>	<input type="radio"/>



Practice (3–4 weeks from exam)

Session	Topic	Subtopic	Confidence	Done
9	Functions	Working with Functions (Algebraic Techniques, Introduction to Functions)	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
10		Working with Functions (Linear, Quadratic and Cubic Functions, Further Functions and Relations)	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
		Graphing Techniques	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
11	Trigonometric Functions	Trigonometry and Measure of Angles	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
		Trigonometric Functions and Identities	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
		Trigonometric Functions and Graphs	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
12	Calculus	Introduction to Differentiation	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
		Differential Calculus	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
		The Second Derivative	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
		Integral Calculus	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
13	Exponential and Logarithmic Functions	Logarithms and Exponentials	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
14	Statistical Analysis	Probability and Discrete Probability Distributions	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
15		Descriptive Statistics and Bivariate Data Analysis	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
		Random Variables	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
16	Financial Mathematics	Modelling Financial Situations	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>