Atomi WACE Maths Methods Study Plan

EXAM DATE: 12 NOV 2020

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: Functions, Trigonometry and Probability**	Functions and Graphs	Domain and Range, The Hyperbola and Asymptotes, The Factor Theorem, Transformations Example	○
2		Trigonometric Functions	Sine Rule, Cos Rule, Trigonometric Equations	○
3		Counting and Probability	The Binomial Theorem, Calculating Simple Probabilities, Addition Rule, Independence and the Multiplication Rule	○
4	**Unit 2: Exponentials, Sequences and Calculus**	Exponential Functions	Index Laws, Logarithms and Exponentials in the Real World	○
		Arithmetic and Geometric Sequences and Series	Limiting Sum of an Infinite Geometric Series, Compound Interest	○
5		Introduction to Differential Calculus	Equations of Tangents and Normals to a Curve, Exam Style Question on Tangents, Maximisation and Minimisation (Examples)	○
	Unit 3: Differentiations, Integration and Discrete Random Variables	Further Differentiation and Applications	Differentiation Rules Practise Question, Exponential Growth and Decay, Differentiating Trigonometric Functions	○
6		Integrals	Integrating Trigonometric Functions, Area Between Two Curves, Rate of Change and Total Change (Part 1 and Part 2)	○
7		Discrete Random Variables	Properties of Discrete Random Variables, Binomial Distribution – Exam Application (Part 1 and Part 2)	○
	Unit 4: Logarithms and Continuous Random Variables	The Logarithmic Function	Logarithmic Laws, Derivative of the Natural Logarithm, Integrating to the Natural Logarithm	○
8		Continuous Random Variables and the Normal Distribution	Properties of Continuous Random Variables, Probability of Observing a Value Less or Greater Than a Given Score, Probability of Observing a Value Between Two Scores	○
		Interval Estimates for Proportions	The Normal Approximation for the Sample Proportion, Calculating and Interpreting Confidence Intervals for Proportions	○

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Practice (3–4 weeks from exam)

Session	Topic	Subtopic	Confidence	Done
9	**Unit 3: Differentiations, Integration and Discrete Random Variables**	Further Differentiation and Applications	○ ○ ○ ○ ○	○
10		Integrals	○ ○ ○ ○ ○	○
11		Integrals (Cont.)	○ ○ ○ ○ ○	○
12		Discrete Random Variables	○ ○ ○ ○ ○	○
13	**Unit 4 : Logarithms and Continuous Random Variables**	The Logarithmic Function	○ ○ ○ ○ ○	○
14		Continuous Random Variables and the Normal Distribution	○ ○ ○ ○ ○	○
15		Continuous Random Variables and the Normal Distribution (Cont.)	○ ○ ○ ○ ○	○
16		Interval Estimates for Proportions	○ ○ ○ ○ ○	○