Atomi WACE Maths Applications Study Plan

EXAM DATE: 9 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: Consumer Arithmetic, Algebra and Measurement**	Consumer Arithmetic	Shares and Dividends (Part 1 and Part 2), Budgeting	○
		Shape and Measurement	Surface Area of Composite Solids, Volume and Capacity of Composite Solids	○
2		Algebra and Matrices	Using Matrices to Model Costing and Pricing Problems	○
3	**Unit 2: Univariate Data, Trigonometry and Linear Equations**	Univariate Data Analysis	Frequency Tables and Histograms, Standard Deviation, Probability of Observing a Value Less or Greater Than a Given Score, Probability of Observing a Value Between Two Scores	○
4		Applications of Trigonometry	The Sine Rule, The Cosine Rule, Finding Areas Using Trigonometry, Applications of Trig – Navigation Problems	○
		Linear Equations and Their Graphs	Practical Applications of Linear Models, Simultaneous Equations, Piecewise Linear Models	○
5	**Unit 3: Bivariate Data, Sequences and Networks**	Bivariate Data Analysis	Least-Squares Regression Line, The Coefficient of Determination	○
6		Growth and Decay in Sequences	Applications of Sequences	○
		Graphs and Networks	Euler's Formula, The Shortest Path	○
7	**Unit 4: Time Series, Finance and Decision Mathematics**	Time Series Analysis		○
		Loans, Investments and Annuities	Compound Interest (Part 1 and Part 2), Annuities Application	○
8		Networks and Decision Mathematics	Maximum Flow Problems, The Maximum-Flow Minimum-Cut Theorem, Maximum Flow Problems – Exam Application	○

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Practice (3–4 weeks from exam)

Session	Topic	Subtopic	Confidence	Done
9	**Unit 3: Bivariate Data, Sequences and Networks**	Bivariate Data Analysis	○ ○ ○ ○ ○	○
10		Growth and Decay in Sequences	○ ○ ○ ○ ○	○
11		Graphs and Networks	○ ○ ○ ○ ○	○
12	**Unit 4: Time Series, Finance and Decision Mathematics**	Time Series Analysis	○ ○ ○ ○ ○	○
13		Loans, Investments and Annuities	○ ○ ○ ○ ○	○
14		Loans, Investments and Annuities (Cont.)	○ ○ ○ ○ ○	○
15		Networks and Decision Mathematics	○ ○ ○ ○ ○	○
16		Networks and Decision Mathematics (Cont.)	○ ○ ○ ○ ○	○