Week	Area of Study	Learning Focus	
HEADSTART,	Area of Study 1:	Substitution, Table of Values	
Holiday HW	Algebra and structure:	Solving Linear Equations One Unknown	
AND	Linear Relations	Developing Linear Formulae in one or two unknowns	
Weeks	Linear Relations	Transposition	
1-3		Simultaneous Equations including CAS Applications	
1 3		Problem Solving & Modelling	
4-8	Area of Study 2:	BODMAS	
4-0	Arithmetic and Number:	Directed Numbers	
	Computation and	Powers, Roots	
	practical arithmetic	Approximations, Decimal Places and Significant Figures	
	practical arithmetic	Conversion of Units	
		Logarithms	
		Order of Magnitude	
		Logarithmic Scale	
		Percentages	
		Percentage Increase and Decrease	
		Geometric Sequence Applications	
		Growth and Decay	
9 - 11	Area of Study 6:	Types of Data	
	Statistics: Investigating	Categorical Data	
	and Comparing Data	Frequency Tables, Bar Charts	
	Distributions	Numerical Data: Shape, Location, Spread	
		Dot plots, Stem-Leaf Plots	
		Summarising Data	
		Boxplots	
		Comparing across 2 or more groups	
		Statistical Investigation	
12 -13	Area of Study 4:	Pythagoras' Theorem: 2D, 3D	
	Geometry, measurement	Trigonometry: Unknown Sides, Angle, Applications	
	and trigonometry:	Elevation, Depression, Bearings	
	Pythagoras' Theorem,	Extended Application & Problem Solving	
	Applications of		
	Trigonometry		
14 - 15	Area of study 3:	Graph Theory, What is a Graph?	
	Discrete mathematics:	Isomorphic, Planar Graphs, Euler's Formula	
	Graphs and Networks	Trails, Paths, Circuits	
	'	Traversable Graphs Eulerian Trails & Circuits	
		Hamiltonian Paths & Circuits	
		Weighted Graphs & Networks	
		Minimum Spanning Trees	
		Applications, Modelling & Problem Solving	
Week 16	EXAM STUDY	1 11 11 11 11 11 11 11 11 11 11 11 11 1	
Week 17	UNIT 1 EXAM		

Unit: 2

Subject: VCE General Mathematics

Week	Area of Study	Learning Focus
1 - 3	Area of study 3: Discrete	Number Patterns
	mathematics: Number	Arithmetic Sequences, Applications & Recurrence
	Patterns	Geometric Sequences, Applications & Recurrence
	and Recursions	Growth and Decay Recurrence
		Fibonacci
4 – 6	Area of Study 5:	Linear Modelling

	Graphs of linear and	Determining slope, intercept-slope
	non-linear relations:	Finding equations from intercept and slope
	Linear Graphs and	Finding equations using two points on the graph
	Models	Using CAS calculators to find the equation
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7 - 10	Area of Study 6:	Investigating relationships between 2 numerical values
	Statistics: Investigating	Response and Explanatory variables
	Relationships	Scatterplots – interpretation and construction
	·	Scatterplots on CAS
		Associations – identifying and describing
		Pearson's correlation coefficient
		Correlation and causation
		Assumptions and estimation (Pearson coefficient)
		Least squares line to model linear association
		Using a regression line to predict interpolations and extrapolation
		Interpretation of the slope and intercept of regression lines
		Statistical investigations
11 – 13	Area of study 2:	Percentages and application
	Arithmetic and number:	GST, original price and percentage change
	Financial Arithmetic	Simple interest, interest rates
		Compound interest
		Comparisons of interest
		Personal loans analysis
		Inflation and effect
		Buying a Car
		Finance options, interest analysis and contributing factors
14 – 15	Area of Study 3: Discrete	Basics & Practical Situations
	mathematics: Matrices	Add, Subtract, Scalar, Multiplication, Applications
		Communications, Connections
		Identity, Inverse, Encoding, Decoding
		Matrices: Simultaneous Equations
		Extended Application & Problem Solving
Week 16	EXAM STUDY	
Week 17	UNIT 2 EXAM	