

Year: 11 Subject: Mathematics



Term	Week	Focus	Summary	Learning Outcomes	Learning skills
Term 1.1	1		Baseline Assessments and orientation	Introduction lessons and baseline assessments.	AutomaticityMeta-cognitionResilience
	2	Number	Recurring decimals	To convert between recurring decimals and fractions	 Speed and accuracy Automaticity Flexible thinking
	3	Number	Bounds	Find the upper and lower bounds of more complex calculations involving perimeters, areas and volumes of 2D and 3D shapes	OriginalityFluent thinkingGeneralisation
	4	Ratio and proportion	Exponential growth and decay	To explore repeated percentage increase and decreases	 Critical and logical thinking Precision Intellectual playfulness
	5	Sequences, Equations and Graphs	Functions	Understand combined/composite/inverse functions	 Problem solving Strategy planning Meta-cognition
	6	Sequences, Equations and Graphs	Functions	Understand combined/composite/inverse functions	 Critical and logical thinking Precision Intellectual playfulness



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Term 1.2	1	Sequences, Equations and Graphs	Differentiation	Find the first derivative and find the gradient of curves.	Big picture thinkingHard workingSelf regulation
	2	Sequences, Equations and Graphs	Differentiation	Understand how to find the second derivative and use this to determine the maxima and minima points	 Strategy planning Connection finding Self regulation
	3	Sequences, Equations and Graphs	Area under a curve	Find and interpret the area underneath a graph	AbstractionProblem solving
	4	Sequences, Equations and Graphs	Algebraic fractions	Solve more complex algebraic fractions	 Problem solving Strategy planning Meta-cognition
	5	Sequences, Equations and Graphs	Proof	Use algebra to prove statements, use identities to equate co-efficients.	 Big picture thinking Hard working Self regulation
	6	Geometrical Reasoning	Circle theorems	To identify and prove the different circle theorems	Big picture thinkingProblem solvingMeta-cognition