Year: 9
Subject: Mathematics

Term	Week	Focus	Summary	Learning Outcomes	Learning skills
Term 2.1	1	Perimeter, Area and Volume	Pythagoras' Theorem in 3D	Find the lengths of space diagonals.	• Automaticity • Meta-cognition • Resilience
	2	Perimeter, Area and Volume	Arcs & Sectors	Find the area and perimeter of sectors.	• Critical and logical thinking • Precision • Intellectual playfulness
	3	Perimeter, Area and Volume	Volume & Surface Area of Prisms & Cylinders	Find the volume and surface area of triangular prisms and cylinders.	• Speed and accuracy • Automaticity • Flexible thinking
	4	Sequences, Equations and Graphs	Straight Line Graphs	Sketch and plot linear graphs.	• Originality • Fluent thinking • Generalisation
	5	Sequences, Equations and Graphs	Inequalities	Solve inequalities algebraically and graphically.	• Strategy planning • Connection finding • Self regulation
	6	Sequences, Equations and Graphs	Quadratic Equations	Factorising and expanding quadratic equations.	• Critical and logical thinking • Precision • Intellectual playfulness

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Term 2.2	**1**	Sequences, Equations and Graphs	Quadratic Functions	Plotting, solving and sketching quadratic functions.	• Problem solving • Fluent thinking • Generalisation
	2	Sequences, Equations and Graphs	Quadratic Sequences	Continue a sequence and find the nth term of a quadratic sequence.	• Strategy planning • Connection finding • Self regulation
	3	Sequences, Equations and Graphs	Linear Simultaneous Equations	Solve algebraically and graphically.	• Big picture thinking • Hard working • Self regulation
	4		Retrieval Practice	To access the topics taught during the half term.	• Problem solving • Strategy planning • Meta-cognition
	5		Feedback and target setting	Question level analysis.	• Abstraction • Problem solving • Generalisation