

Term	Week	Focus	Summary	Learning Outcomes	Learning skills
Term 2.1	1	Sequences, Equations and Graphs	Quadratic Functions	Understanding of basic quadratic functions and their graphs. Be able to make links between factorised form and roots.	<ul style="list-style-type: none"> Automaticity Meta-cognition Resilience
	2	Sequences, Equations and Graphs	Quadratic Functions	Understand and interpret the quadratic formula by identifying a, b and c and substituting in correctly; Be able to find roots in surd form and rounded; Be able to find roots in surd form and rounded.	<ul style="list-style-type: none"> Critical and logical thinking Precision Intellectual playfulness
	3	Sequences, Equations and Graphs	Quadratic Functions	Be able to complete and square and use the solution to find the minimum and maximum on a graph.	<ul style="list-style-type: none"> Speed and accuracy Automaticity Flexible thinking
	4	Sequences, Equations and Graphs	Perpendicular and Parallel Lines	Understanding of gradient and y-intercept. Be able to identify parallel lines, including needing to rearrange first.	<ul style="list-style-type: none"> Originality Fluent thinking Generalisation
	5	Sequences, Equations and Graphs	Perpendicular and Parallel Lines	Be able to find the equation of a line given two points and a parallel line. Explore the relationship between gradients of perpendicular lines	<ul style="list-style-type: none"> Strategy planning Connection finding Self-regulation
	6	Sequences, Equations and Graphs	Perpendicular and Parallel Lines	Compute the equation of a line given two points and a perpendicular line. Be able to identify parallel and perpendicular lines graphically and be able to sketch them.	<ul style="list-style-type: none"> Critical and logical thinking Precision Intellectual playfulness

Term 2.2	1	Sequences, Equations and Graphs	Quadratic Simultaneous Equations	Identify when simultaneous equations will have one, two or no solutions using a sketch.; Look at simultaneous equations with one linear and one quadratic and use substitution to find solutions.	<ul style="list-style-type: none"> Problem solving Fluent thinking Generalisation
	2	Sequences, Equations and Graphs	Quadratic Simultaneous Equations	Form and solve simultaneous equations from worded problems.	<ul style="list-style-type: none"> Strategy planning Connection finding Self-regulation
	3	Sequences, Equations and Graphs	Inequalities	Construct and solve linear inequalities with integer or fractional coefficients, with or without brackets and negatives which will result in a positive or negative solution; Solve linear inequalities graphically.	<ul style="list-style-type: none"> Big picture thinking Hard working Self-regulation
	4	Sequences, Equations and Graphs	Inequalities	Solve quadratic inequalities by factorising and sketching the graph to find critical values.	<ul style="list-style-type: none"> Problem solving Strategy planning Meta-cognition
	5	Sequences, Equations and Graphs	Changing subject of Formula	Changing the subject of a formula involving 1, 2 or multiple steps (include powers, roots and fractions).	<ul style="list-style-type: none"> Abstraction Problem solving Generalisation