

Term	Week	Focus	Summary	Learning Outcomes	Learning skills
Term 2.1	1	Algebraic Methods	Working with algebra and proof	To explore algebraic division, factor and remainder theorem, mathematical proof and methods of proof.	<ul style="list-style-type: none"> Automaticity Meta-cognition Resilience
	2	Measures of Spread	Calculating measures of spread in data	To explore types of data, central tendency and measures of spread.	<ul style="list-style-type: none"> Critical and logical thinking Precision Intellectual playfulness
	3	Differentiation	Applications of differentiation	To explore applications of differentiation including stationary points, increasing and decreasing functions and modelling with differentiation.	<ul style="list-style-type: none"> Speed and accuracy Automaticity Flexible thinking
	4	Discrete Random Variables	Applications of discrete random variables	To explore discrete random variables, finding expected and variance and solving problems.	<ul style="list-style-type: none"> Originality Fluent thinking Generalisation
	5	Integration	Applications of integration	To explore areas under curves and calculating the trapezium rule.	<ul style="list-style-type: none"> Strategy planning Connection finding Self regulation
	6	Circle Geometry	Co-ordinate geometry in circles	To explore midpoints, bisectors, equations of circles, intersections of circles and lines, tangent and chord properties.	<ul style="list-style-type: none"> Critical and logical thinking Precision Intellectual playfulness

Term 2.2	1	Sequence and Series	Arithmetic and Geometric sequences	To explore arithmetic and geometric series, the sum of series, sigma notation, recurring relations and modelling with series.	<ul style="list-style-type: none"> • Problem solving • Fluent thinking • Generalisation
	2	Correlation and Regression	Correlation and regression of lines	To explore linear regression, calculating the least squares and the product moment correlation coefficient.	<ul style="list-style-type: none"> • Strategy planning • Connection finding • Self regulation
	3	Binomial Expansion	Using binomial expansion	To explore factorial notation, Pascal's triangle, the binomial expansion and approximating using binomial expansion.	<ul style="list-style-type: none"> • Big picture thinking • Hard working • Self regulation
	4	Exponentials and Logarithms	Exponential and logarithmic functions	To explore exponents and logarithms, laws of logarithms, solving equations with logarithms, changing the base of a logarithm.	<ul style="list-style-type: none"> • Problem solving • Strategy planning • Meta-cognition
	5	Trigonometry	Trigonometric Identities and equations	To explore exact values of trigonometric ratios, trigonometric identities, solving trigonometric equations.	<ul style="list-style-type: none"> • Abstraction • Problem solving • Generalisation