| TERM 1 August - October | Partial Fractions | Decomposing a rational function into a sum of partial fractions (denominator of degree at most three) |
|-------------------------|-----------------------|---|
| | Binomial Theorem | Expanding expressions using the binomial theorem |
| | Differential Calculus | Differentiating functions using the chain rule |
| | | Differentiating functions given in the form of a product and in the form of a quotient |
| | | Differentiating exponential and natural logarithmic functions |
| | | Differentiating inverse trigonometric functions |
| | | Finding the derivative where relationships are defined implicitly |
| | | Finding the derivative where relationships are defined parametrically |
| | | Applying differentiation to problems in context |
| | Functions | Finding the asymptotes to the graphs of rational functions |
| | | Investigating features of graphs and sketching graphs of functions |

| TERM 2 October - December | Integral Calculus | Integrating expressions using standard results |
|---------------------------|-------------------|---|
| | | Integrating by substitution |
| | | Integrating by parts |
| | | Applying integration to problems in context |
| | ODE's | Solving first-order differential equations with variables separable |
| | | Solving first-order linear differential equations using an integrating factor |
| | | Solving second-order differential equations |

| TERM 3 January - April | Sequences | Finding the general term and summing arithmetic and geometric progressions |
|------------------------|-----------|--|
| | | Applying summation formulae |
| | | Using the Maclaurin expansion to find specified terms of the power series for simple functions |
| | Matrices | Using Gaussian elimination to solve a 3 ´ 3 system of linear equations |
| | | Understanding and using matrix algebra |
| | | Calculating the determinant of a matrix |
| | | Finding the inverse of a matrix |
| | | Using transformation matrices |
| | Vectors | Calculating a vector product |
| | | Working with lines in three dimensions |
| | | Working with planes |

| TERM 4 April - May | Complex Numbers | Performing algebraic operations on complex numbers |
|--------------------|-----------------|---|
| | | Performing geometric operations on complex numbers |
| | Proof | Disproving a conjecture by providing a counterexample |
| | | Using indirect or direct proof in straightforward examples |
| | | Using proof by induction |
| | | Using Euclid's algorithm to find the greatest common divisor of two positive integers |