

Math Syllabus

Topics	Description
Functions including one variable	 Inverse functions Domain and range Linear functions Polynomials Rational functions Trigonometric functions (sine, cosine and tangent) Exponential and logarithm functions (including the laws of these)
Differentation	 The concept of limit Tangents and normal Rules of operations for differentiation (product, quotient, chain rule)
Integration	 Indefinite integral The definite integral Rules for the integral Integration by substitution Integration by parts Calculation of areas by integration Calculation of volumes of revolution by integration
Vectors in two dimensions	 Rules of operations for vectors in two dimensions Scalar product Vectors in coordinate geometry
Differential equations	 General/particular solution Separable equations of first order