

# Edexcel A Level Further Mathematics

Core Pure Mathematics	Decision Mathematics	Further Mechanics
<ul style="list-style-type: none"> <li>• Complex Numbers</li> <li>• Argand Diagrams</li> <li>• Series</li> <li>• Roots of Polynomials</li> <li>• Volumes of Revolutions</li> <li>• Matrices</li> <li>• Linear Transformations</li> <li>• Proof by Induction</li> <li>• Vectors</li> <li>• Methods in Calculus</li> <li>• Polar Coordinates</li> <li>• Hyperbolic Functions</li> <li>• Methods in Differential Equations</li> <li>• Modelling with Differential Equations</li> </ul>	<ul style="list-style-type: none"> <li>• Algorithms</li> <li>• Graphs and Networks</li> <li>• Algorithms on Graphs</li> <li>• Route Inspection</li> <li>• The Travelling Salesman Problem</li> <li>• Linear Programming</li> <li>• The Simplex Algorithm</li> <li>• Critical Path Analysis</li> </ul>	<ul style="list-style-type: none"> <li>• Momentum and Impulse</li> <li>• Work, Energy and Power</li> <li>• Elastic Strings and Springs</li> <li>• Elastic Collisions in One Dimension</li> <li>• Elastic Collisions in Two Dimensions</li> </ul>