Mathematics

Awarding Body	Edexcel	Specification Code	9MA0
Type of qualification	A Level		
Entry Requirements	GCSE grade 7 or above		
Course Content	The course is made up of 3 components: Pure, Mechanics and Statistics. The Pure Mathematics component is all about algebra, graphs, geometry (angles, trigonometry, vectors), new types of numbers and calculus. The Statistics component is about probability, and processing data using calculations and graphs. This is an extension of the Probability and Statistics that students will have covered at GCSE and adds more methods of working with data that model larger populations and can be used to test the significance of observations. The Mechanics component is best described as the Mathematics of Physics. In this, students learn more about linear and turning forces, deepen their understanding of the velocity-acceleration topics they will have seen in GCSE Science, learn to work with how objects move under constant or variable acceleration, how to work with connected particles, such as pulley systems, and projectile motion.		
Assessment Method	Three written papers – 2 hours each		
Career Pathway	Mathematics degree course, leading to many careers such as financial trading. Accountancy, actuarial work, data analysis, investment analysis, software engineering, acoustic engineering, meteorology, insurance underwriting Engineering degree course Science based degree courses with significant mathematical content Engineering apprenticeship Accountancy apprenticeship Business management Architecture and Architectural Engineering Agricultural management Entry on a Law course Forensic Science Sports Science Transportation logistics		
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