



A LEVEL MATHEMATICS

<u>EXAM BOARD</u> Edexcel
<u>CONTENT</u> <u>Pure Mathematics</u> Topic 1 – Proof; Topic 2 – Algebra and functions; Topic 3 – Coordinate geometry in the (x, y) plane, Topic 4 – Sequences and series; Topic 5 – Trigonometry; Topic 6 – Exponentials and logarithms, Topic 7 – Differentiation; Topic 8 – Integration; Topic 9 – Numerical methods; Topic 10 – Vectors <u>Statistics</u> Topic 1 – Statistical sampling; Topic 2 – Data presentation and interpretation Topic 3 – Probability; Topic 4 – Statistical distributions; Topic 5 – Statistical hypothesis testing <u>Mechanics</u> Topic 6 – Quantities and units in mechanics; Topic 7 – Kinematics Topic 8 – Forces and Newton’s laws; Topic 9 – Moments
<u>COURSE STRUCTURE</u> Students study three strands of Mathematics: Pure Mathematics, Statistics and Mechanics. The strands are taught simultaneously by subject experts over the course of two years, with students sitting three exam papers (two hours each) on the content covered during years 12 and 13. Pure Mathematics amounts to two-thirds of the course and is examined across two papers, whereas Statistics and Mechanics form one-third of the course and are covered in one exam.
<u>METHOD OF ASSESSMENT</u> Pure Mathematics 1 Exam (33.3%) Pure Mathematics 2 Exam (33.3%) Statistics and Mechanics Exam (33.3%)
<u>ENTRY REQUIREMENTS</u> Grade 6 at GCSE
<i>“It’s a big step up from GCSE, but so far I have found the challenge both interesting and rewarding.”</i>

