

Key Stage 5 Curriculum Overview

Subject: Further Mathematics

Year 12

| Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 | Assessment |
|---|---|---|---|---|--|---|
| <p><u>Further Pure</u></p> <p>Complex Numbers</p> <p>Series</p> <p><u>Decision Mathematics</u></p> <p>Algorithms and Graph theory</p> | <p><u>Further Pure</u></p> <p>Algebra and Functions</p> <p>Calculus</p> <p>Matrices</p> <p><u>Decision Mathematics</u></p> <p>Algorithms and Graph theory</p> <p>Linear Programming</p> | <p><u>Further Pure</u></p> <p>Matrices</p> <p>Proof</p> <p>Vectors</p> <p><u>Decision Mathematics</u></p> <p>Linear programming</p> <p>Critical Path Analysis</p> | <p><u>Further Statistics</u></p> <p>Discrete Probability distributions</p> <p>Poisson and binomial distributions</p> <p>Hypothesis Testing</p> | <p><u>Further Statistics</u></p> <p>Chi squared tests</p> <p><u>Revision and examinations</u></p> | <p><u>Further Pure</u></p> <p>Complex Numbers</p> <p><u>Decision Mathematics</u></p> <p>Algorithms</p> | <p>All assessment is through examination. This is the first year of the new linear course and all students will be tested in four examinations at the end of Year 13.</p> <p>There will be two examinations on Further Pure Mathematics and one on each of Further Statistics and Decision Mathematics.</p> |

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|---|---|---|---|--|--|--|
| <p><u>Further Pure (FP2)</u></p> <p>Further Complex Numbers</p> <p>First Order Differential Equations</p> <p><u>Statistics (S2)</u></p> <p>Poisson Distribution</p> <p>Continuous random variables</p> <p>Continuous uniform distribution</p> | <p><u>Further Pure (FP2)</u></p> <p>Second Order Differential Equations</p> <p><u>Statistics (S2)</u></p> <p>Normal Approximations</p> <p>Population and samples</p> <p>Hypothesis testing</p> <p><u>Mechanics (M2)</u></p> <p>Kinematics of a particle</p> <p>Centres of Mass</p> | <p><u>Further Pure (FP2)</u></p> <p>Maclaurin and Taylor series</p> <p><u>Mechanics (M2)</u></p> <p>Work, energy and power</p> <p>Collisions</p> <p>Statics of rigid bodies</p> | <p><u>Further Pure (FP2)</u></p> <p>Polar Coordinates</p> <p><u>Mechanics (M2)</u></p> <p>Statics of rigid bodies</p> <p><u>Revision</u></p> | <p><u>Revision and examinations</u></p> | <p><u>Revision and examinations</u></p> | <p>All assessment is through examination. This is the last year of the modular course and all students will be tested in three modules at the end of Year 13. These are Further Pure Mathematics (FP2,) Statistics (S2) and Mechanics (M2).</p> <p>In Year 12 students were assessed in Further Pure Modules (FP1) and two Decision Mathematics modules (D1 & D2).</p> |

