

Sixth Form Subject Information

Further Maths



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| Qualification | AS or A-Level | |
| Exam Board | Edexcel | |
| Course Leader | Mrs C Hunt | |
| Course summary | <p>Further Maths is an extension to Mathematics and serves those more able students. It is appropriate for those students who have achieved an A or A* at GCSE and a genuine love for mathematics.</p> <p>In this course we will aim to:</p> <ul style="list-style-type: none"> ➤ Broaden your range of mathematical skills and techniques ➤ Show how different areas of mathematics are connected ➤ Help you to become confident and extend your mathematical skills and techniques. ➤ Help you use mathematics to as an effective means of communication ➤ Use mathematical reasoning to draw inferences. ➤ Solve challenging problems ➤ Help you become an independent learner. | |
| What will students learn? | AS content | <p>The content will consist of Pure and applied mathematics. Pure Mathematics is compulsory and will assess:</p> <p>Proof Complex Numbers Matrices Further Calculus Further Vectors Polar Coordinates Hyperbolic Functions</p> <p>Students will then choose a combination of 2 modules from: Statistics, Mechanics or Discrete Mathematics</p> |
| | A Level content | <p>This includes all of the AS content but studied to a greater depth. Plus:</p> <p>Differential Equations Further Trigonometry Further Co-ordinate geometry</p> |
| How will students be assessed? | AS | <p>At AS there will be 2 papers worth 50% of the exam each. They will be a mixture of short and multi-step problems. Each exam will last 1.5 hours.</p> |
| | A Level | <p>A Level is assessed by three 1.5 hour papers and each paper is 1/3 of the A level. Two papers will be devoted to the core pure maths and one paper to the optional modules.</p> |
| Differentiation | <p>Exercises are available to stretch the more able and support in terms of 1 to 1 is given to those needing more help.</p> | |

Resources

Text books are linked to the exam board requirements.
There are many websites available to support review and revision.; most notable MyMaths