

Subject: FURTHER MATHS (Edexcel)

Subject Leader: Mrs Birleson

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CNS 6th Form



This course covers the following key topics:

Pure Core

Complex numbers, matrices, further algebra, further calculus, series and 3D vectors.

Decision

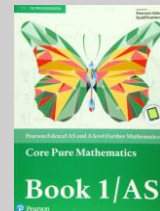
Graphs and networks, algorithms: Prim's, Kruskal's, Dijkstra's and route inspection.

Further Statistics

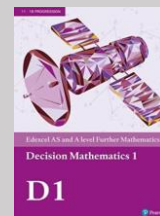
Further distributions, chi-squared tests, probability generating functions

Textbooks:

Pure Core



Decision



We love teaching this course because

"Being a Head of Maths is the best job I've ever had. I enjoy the relative perceived importance of mathematics over most other subjects and I enjoy the challenge of the subject both personally, and in terms of the way I can bring it across to others. I like the creativity involved in teaching the subject, especially at A' Level. I love teaching A' Level students and getting them to write their workings and ideas out on the windows in the classrooms, which then intrigues and inspires other pupils lower down the school when they come into the room, asking about all the different symbols they have never seen and asking me to explain what it all means."

Mr Rollison Head of Mathematics

Our students say:

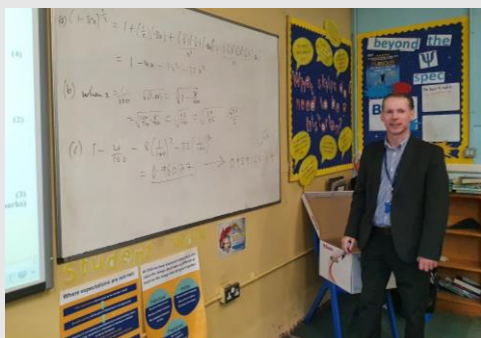
"I study maths and further maths at CNS Sixth Form, and I am thoroughly enjoying it. I find the lessons enjoyable and engaging, with plenty of challenging yet exciting aspects to them. The classes are small, so I feel that there is plenty of help and support available to me from excellent teachers!"

Ben y12

If you love Maths, we really recommend you read:

- 1) read Fermat's last theorem by Simon Singh
- 2) watch Matt Parker on YouTube
- 3) read articles from plus.maths.org

Online Maths magazine from Cambridge University



What future pathways are open to me if I study Further Maths?

Further Maths is highly desirable as it is seen as an elite academic subject.

Students will often receive lower entry requirements if one subject is Further Maths