

The Further Mathematics Support Programme

Mathematics Masterclass

The Mathematical Institute, University of Oxford,
Radcliffe Observatory Quarter, Woodstock Road, Oxford OX2 6GG
Thursday 15th March 2018, 2.00pm – 4.30pm

The Mathematics of Sharing

Speaker: Dr Ian Griffiths, University of Oxford



Sharing a cake in a fair way between two people is simple: one cuts and the other chooses. But how would we extend to three people? Or even more? And in an increasingly technological society, how can we select who we share information with (such as credit card details on the internet, or private emails to friends)?

In this class we will examine the mathematics of fair division and secret sharing, highlighting the vital role it plays in society and our reliance on the discovery of new mathematical tools to ensure we can continue to share safely in the future.

This masterclass is aimed at year 11-13 students. There is a charge of **£2 per student** to cover costs, payable in advance. Light refreshments are provided, which will be suitable for vegetarians. At this event it is not possible to cater for other dietary requirements.

To book places, complete the Google form here: <https://goo.gl/forms/NeylOUebeWlzwqAo1>

Places are allocated on a 'first come, first served' basis, so book early to avoid disappointment.

Payment is online by card: details of how to pay will be sent with acknowledgement of application. School teachers are welcome to attend for CPD free of charge but must book places on the Google form. Please note that the acknowledgement is manually generated and allow a few days for a response.

If you have any queries, please contact Alexandra Hewitt
alexandrahewitt@furthermaths.org.uk

Deadline for payment: **Monday 12th March**