

The Further Mathematics Support Programme

Introduction to AS Further Pure

A one day course covering the key compulsory topics of the new Further Mathematics AS levels (from 2017)

Lord Williams's Lower School, Towersey Road, Thame, OX9 3NW

09:30 to 15:30, Monday 12th June 2017



The course covers the main topics that are common to all examination boards, specifically Matrices, Complex Numbers, Series, Proof and Roots & Coefficients of Polynomials.

Teaching approaches encourage an active learning style, including the use of technology, and the development of sound understanding of key concepts.

This course is an introduction to Further Pure Mathematics at AS level for all 2017 specifications and assumes knowledge of all the Core Modules of the *current* specifications

Note that this course will not address the Vectors content, since we are assuming that current A level teachers will be familiar with most of this

Course Leaders:

Alexandra Hewitt, FMSP Area Coordinator

Jeff Trim, FMSP Central Team and Area Coordinator

Course aims:

- To strengthen teachers' understanding of the key compulsory topics in the new AS level Further Mathematics specifications
- To demonstrate teaching ideas and resources, including the use of technology

Provisional timetable for the day (to be confirmed):

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| 9.00 | Registration (Tea/coffee) |
| 9.30 | Introduction to FP1 Background to AS Further Maths and content of all specifications |
| 9.50 | Series and Induction Standard sums and telescoping; proof by induction |
| 11.05 | Break for refreshments |
| 11.20 | Complex Numbers Detailed exploration with teaching ideas and suggestions for extension |
| 12.35 | Lunch |
| 1.20 | Matrices Matrix algebra and its link to transformation geometry |
| 2.35 | Break for refreshments |
| 2.45 | Roots and Coefficients |
| 3.10 | Resources for teaching and questions To include an introduction to Integral online resources |
| 3.30 | Finish |

Course fees and application:

The course costs £50 if your school is registered with the FMSP* (otherwise £100), including refreshments, lunch and resources. Teachers who are on current PGCE or GTTP placements may attend free of charge if accompanied by a fee-paying colleague. To book places please complete the Google Form at:

<https://goo.gl/forms/ZVbYWGz6IGz8DSMI2>

Further information

Details of how to pay online will be provided on completion of the Google booking form.

Final closing date for booking: **Friday 26th May 2017**

For further information, contact alexandrahewitt@furthermaths.org.uk or 07962 871828

*Registration is free. To register visit: <http://www.furthermaths.org.uk/?page=register>