

## The Further Mathematics Support Programme

# Introduction to Discrete Mathematics

**Course Tutors:**

**Jeff Trim (FMSP Central Coordinator)**

**Alexandra Hewitt & Ken Chamberlain (FMSP Area Coordinators)**

**Charvil Primary School, Park Lane, Charvil, Berkshire, RG10 9TR**

**09:30 to 15:30, Wednesday 1<sup>st</sup> November 2017**



Feedback from previous courses:

“Friendly and extremely enthusiastic delivery from both speakers. They clearly care and are excited about the subject.”

“Lots of resources and ideas to enliven delivery of D1 when I have to teach it.”

“Excellent and interesting problems to consider.”

“Passion for Decision maths was infecting us.”

“Fun, informative, good pace.”

“One of the most useful CPD days I’ve been on for a long time. Thank you very much.”

**This course is an introduction to Discrete Mathematics and no prior knowledge is required beyond GCSE Mathematics.**

[The titles Discrete Maths, Decision Maths and Modelling with Algorithms are now being used by different awarding organisations for Further Maths components containing similar material.]

**The event is suitable for teachers with no prior experience of Discrete Maths or for those looking for a refresher course in the basic topics.**

### **How will the resources be presented?**

The course will be delivered using visual presentation, interactive work and practical demonstration. Key course materials will be made available to delegates electronically.

### **Course aims:**

- To strengthen teachers' understanding of the content of discrete & decision mathematics
- To cover the common key ideas from the relevant AS specifications
- To introduce teaching ideas and resources for discrete & decision mathematics
- To present discrete & decision maths content in a variety of real world contexts
- To provide hints for preparing students for discrete & decision mathematics exams

## Provisional Programme

(Exact content may be revised in the light of accredited specifications and delegates' stated preference of awarding organisation.)

- 09:00 Registration (Tea/coffee available)
- 09:30 **Graph Theory**
- 11:00 Break for Refreshments
- 11:20 **Optimisation problems on Networks**
- 12:35 Lunch
- 13:20 **Linear Programming**
- 14:20 Break for refreshments
- 14:30 **Algorithms**
- 15:30 Depart

### How will the resources be presented?

The course will be delivered using visual presentation, interactive work and practical demonstration. Key course materials will be made available to delegates electronically.

### Course fee and application

**Online Booking Form:** <http://tinyurl.com/DMaths-Charvil-Nov2017>

**Course Fee: £50** for teachers from schools and colleges that are registered with the FMSP. (Registration is free. To register visit: [www.furthermaths.org.uk/register](http://www.furthermaths.org.uk/register) .)

**Payments:** Cheques should be made payable to *Little Heath School* and addressed to:  
Dawn Guster, FMSP Administration & Bookings, Finance Office,  
Little Heath School, Little Heath Road, Tilehurst, Reading, RG31 5TY

Payment can also be made by BACS transfer. Telephone Dawn Guster (0118 9427337) for details.

PGCE or GTP trainees may attend this course *free of charge* if they are accompanied by at least one paying teacher from the same school/college. Enquire by email to the address below for further details of how to take up this special offer.

Closing date for applications: Thursday 19<sup>th</sup> October 2017.

For more information about this course or help with specific queries email:

[kathrynplatten@furthermaths.org.uk](mailto:kathrynplatten@furthermaths.org.uk)