

The Further Mathematics Support Programme

Student-Teacher Sixth Form Problem Solving Conference

A one-day conference for sixth form students and teachers about developing deeper mathematical problem-solving skills

Denbigh School, Burchard Crescent, Shenley Church End, Milton Keynes MK5 6EX

09:30 – 15:30 Wednesday 1st February



This conference will be of interest to teachers who wish to develop mathematical problem solving at a high level, and to support their students in preparing for the MAT, STEP or AEA examinations.

It will be of interest to students who are looking to explore mathematical problem-solving more deeply, whether or not they intend to sit these examinations. Depending on numbers, there will be separate groups for y12 students, y13 students and teachers.

No previous experience of the MAT, STEP or AEA is assumed

Course aims:

- allow students and teachers to attempt problems both in groups and on their own
- get students and teachers thinking about developing skills in writing and presenting solutions to problems
- give students and teachers a chance to explore areas of maths not in the standard curriculum
- give students and teachers a chance to look at questions from STEP, AEA and the MAT examinations

Course Leader:

Phil Chaffé, FMSP Central Coordinator

supported by:

Alexandra Hewitt (FMSP Area Coordinator), Martin Powell (FMSP Associate), Angela Pound (FMSP Associate), Howard Astley-Jones (Enigma Hub Maths Lead)

Provisional Programme:

9.00 Arrival and coffee

09.30 Opening plenary about problem-solving

10.00 Workshop A

11.00 Break

11.15 Workshop B

12.15 Lunch

12.45 Workshop C

1.45 Break

2.00 Workshop D

3.00 Closing Plenary

3.30 Day ends

Students and teachers will take part in the following workshops on a carousel basis:

Fun Maths Roadshow (Sixth Form resources)

Writing and presenting solutions to problems

Mathematics masterclass

Looking at problems from STEP, AEA and MAT

Who is eligible?

There is no fee for this course. More than one teacher may attend from a school, together with up to five Y12 and/or Y13 students. (It may be possible to accommodate additional students.) Please note that students must be accompanied by a mathematics teacher.

To book places at this conference, please complete the Google Form here:

<https://goo.gl/forms/nEF1C76Ne3Kb0LPJ2>

Further information

For more information email alexandrahewitt@furthermaths.org.uk