

SYMH Post 16 & KS5 Update

October 2017

The monthly focus for September was Student Support [follow link](#), and although we are now a few weeks into the term we at FMSP hope that you are all aware of the additional support available to help you offer both A level Maths and Further.

As always I am available to discuss your needs face to face and can provide advice around how your school can access any DfE funded support you may be entitled to.

Best wishes.

Pete

petesides@furthermaths.org.uk

Contents

Integral resources & Videos

Network meetings

Maths Hubs funded work groups

Professional Development

- Live Online Professional Development (LOPD)
- Underground Maths
- Enthuse award opportunities

Student Enrichment

- Year 12 Problem Solving at University of Sheffield
- Step preparation for Y13
- UKMT Senior Team maths Challenge

Videos (for A level too)

Did you know that when you register this year you will be given two usernames to log onto Integral?

[Follow this link for an overview of the newly upgraded Integral resource](#)

One is for staff use only but one you can make available to students to access the FREE videos. These not only cover Further Pure topics but also Mechanics and Statistics at A level. A great resource for students to view before a lesson.

Whilst the basic package of resources on Integral is impressive the Video+ account or full subscription to Integral can replace the need for textbooks altogether.

Follow this link for a [YouTube example of the “walkthrough”](#) learning available now on Integral and updated for the new A level

Local Network meetings

Following the successful network meetings in the summer term, termly network meetings will be held in each of the Rotherham, Doncaster and Sheffield regions. There will be a rolling programme of areas of focus and each term there will be a session addressing Core, Statistics & Mechanics in turn.

	Autumn	Spring	Summer
Rotherham	Statistics	Mechanics	Pure
Sheffield	Mechanics	Pure	Statistics
Doncaster	Pure	Statistics	Mechanics

Autumn dates (4 – 5.30 pm)

Monday 16th October – Adwick (Outwood) Academy , Doncaster – focus Pure

Tuesday 21st November - Wickersley School, Rotherham – focus Statistics

Thursday (tbc) November – Notre Dame High School – focus Mechanics

To reserve a place please email Pete at petesides@furthermaths.org.uk

Maths Hub work groups

There are plans for three maths hub work groups that will focus on the post 16 agenda in 2017/8. These are

- Development of the use of technology [Details now available](#)
- Collaborative planning around GCSE resits
- Core Maths teacher network

More details to follow, but if you would like to register an interest in any of these contact Pete and he will ensure you get sent details as soon as they are confirmed.

Professional Development

Live Online Professional Development

The following LOPD courses are now open to applications at www.furthermaths.org.uk/LOPD

- 2017 AS&A level Maths: Statistics
- 2017 AS Maths: Pure Absolute Beginners
- 2017 A level Maths: Pure
- 2017 AS Further Maths: Pure
- 2017 AS&A level Maths: Mechanics

Each programme begins early October and sessions run from 4.30pm.

Later courses (starting in November or later)

- 2017 AS&A level Maths: Spreadsheets and the large data set
- Supporting students with STEP/AEA
- KS5 Coordinators Development
- Decision/Discrete/Modelling with Algorithms

If you've not engaged with LOPD before here is [a link to some FAQs](#)

Underground Maths

If you've never come across Underground Maths before visit [this page LINK](#)

There are two FREE one day courses in our area this Autumn

12th October 2017, at Outwood IoE, Adwick, Doncaster, DN6 7EQ

9th November 2017, at Notre Dame High School, Sheffield S10 3BT

On these days A level Maths teachers will be introduced to the Underground Mathematics online resources, the thinking behind their design and their use in the classroom.

The course is free of charge to all teachers of A Level Mathematics in state-funded schools. Refreshments, lunch and resources are included. Two teachers per school/college are welcome to apply for the course.

[Follow this link](#) for fuller details and to book for either venue online.

Enthuse Funded Professional Development

The "Enthuse funding" initiative focuses on STEM subjects and allows teachers to access a wide variety of professional development programmes.

The costs of the courses are awarded to schools after completion of the training, so essentially you get the training for FREE and many of these are residential based at the STEM centre York. **[Follow this link for the latest opportunities available](#)**

Student enrichment

A reminder too that both SYMH and FMSP provide a number of opportunities for student enrichment activities. Most of these are free but all are aimed at encouraging a positive attitude towards Maths and encouraging future study in STEM subjects. There is a new enrichment coordinator for South Yorkshire who will be in touch with schools soon.

Year 12 Problem Solving

The University of Sheffield continues to offer support for student enrichment and extension follow [this link](#) to the SoMaS outreach page. Which includes Year 12 Problem Solving opportunities for students starting early November [further details](#)

Year 13 STEP preparation

Similarly Y13 students have the opportunity to continue the programme of extension into their final year – [follow link for details](#)

UKMT Senior Team Maths Challenge

There are two heats in the local region this year.

15 November University of Sheffield

23 November Outwood Adwick Academy

For full details and to book a place for your team [follow this link](#)

For any queries regarding student enrichment or support with organising events in your own institutions please contact Kieren O’Sullivan at

kierenosullivan@furthermaths.org.uk

South Yorkshire Maths Hub Post 16 Update

**Past copies of Update can be uploaded from the SYMH website [newsletter page](#).
SYMH Administrator Patricia Parish can be contacted at admin@symathshub.org.uk**