

## **SYMh Post 16 & KS5 Update**

**December 2017**

*Earlier this year the FMSP worked alongside teachers and students in five different schools and colleges to produce sets of **videos to support teachers** by providing ideas that can be incorporated into AS and A level lessons for Mathematics and Further Mathematics. The videos cover the overarching themes: reasoning and proof, problem solving, use of technology and mathematical modelling in mechanics and statistics. Each five minute video is accompanied by questions to consider when watching the video, the resources used in the video and suggested lesson plans. These videos are now [available on the FMSP website](#) along with some ideas for how the videos and resources could be used to encourage discussion in departmental meetings. We hope that viewing the videos will give teachers ideas and inspiration to use in their classroom.*

*Best wishes.*

*Pete*

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## Why register with the Further Maths Support Programme?

Once registered, you will receive;

### A free Integral online resources teacher account

- You will receive a single teacher account login for your school/college allowing access to high quality teaching resources for AS and A Level Further Maths and Mechanics and Statistics in A Level Mathematics.
- Integral resources have been updated for the new 2017 specifications and now feature large data set lessons and videos, and new problem-solving resources for Further Pure.
- Materials for the legacy specifications will continue to be available until September 2018.

### Additional teaching resources for:

- AQA Level 2 Certificate in Further Mathematics;
- OCR Additional Mathematics (FSMQ level 3);
- STEP (Sixth Term Examination Paper);
- AEA (Advanced Extension Award);
- IMPS (Integrating Mathematical Problem Solving).

### Resources - New for this year:

- You will also receive a single student account login allowing access for your Further Maths students to a series of FMSP videos covering the content of AS and A Level Further Mathematics for the specification you teach.
- Free KS4 and KS5 Mathematics Enrichment events:
  - Competitions
  - In house enrichment workshops/talks
  - A level Mathematics and Further Mathematics and University Mathematics taster sessions
  - Student conferences

### Access to Teacher Networks & Professional Development.

The FMSP will keep you informed of support and activities local to your school/college and update you with news and information. Information on all of our events can be found on our website [www.furthermaths.org.uk](http://www.furthermaths.org.uk) .

You can update your schools registration details via our website:

[www.furthermaths.org.uk/register](http://www.furthermaths.org.uk/register)

## **Maths Hub funded work groups**

### **Addressing the new GCSE resits (start date 6<sup>th</sup> December)**

An opportunity to work with colleagues from schools and colleges to address the issues around students re-taking the new GCSE.

The impact of the new curriculum on existing strategies will be discussed and there will be the opportunity for reflecting and reviewing the issues around successful practices as well as sharing and trialling resources.

[Click here for link to SYMH website and further details](#)

### **Using Technology in the classroom (New start date 18<sup>th</sup> January, Sheffield)**

***NB there will be a further Doncaster based cohort later in the year.***

This work group will focus on developing strategies and resources to support teachers at GCSE and beyond to incorporate this aspect into everyday teaching.

This will include resource development and trialling ideas out in the classroom followed by collaborative reflection and review. In particular the use of Geogebra as a tool for graphing, geometric modelling and a statistical analysis is investigated.

[Click here for link to SYMH website and further details](#)

## **Network Meetings**

### **A level & Further Maths**

There will be a rolling programme of after school meetings (4 – 5.30 pm) each term addressing Core, Statistics & Mechanics in turn. [Follow link for more details](#)

**Tuesday 6<sup>th</sup> February:** Sheffield: focus Pure Maths

**Monday 12<sup>th</sup> February:** Doncaster: focus Statistics

**Wednesday 14<sup>th</sup> March:** Rotherham: focus Mechanics

To reserve a place please email [petesides@furthermaths.org.uk](mailto:petesides@furthermaths.org.uk)

### **Core Maths teacher network**

The Core Maths teacher network is a local initiative aimed at supporting teachers of Core Maths and encouraging collaboration and dialogue. These half-termly meetings will be held after school at King Ecgbert's, Sheffield. The meetings will be facilitated by Andy Barker with the support of our Core Maths expert and Level 3 lead Terry Dawson.

The South Yorkshire Maths Hub will also offer support to schools wishing to find more about Core Maths with a view to offering this new programme of learning to their KS5 students.

[Click here for link to SYMH website and further details](#)

### **Underground Maths**

FREE one day course in our area in the Spring term.

**Friday 9<sup>th</sup> February, at Maltby Academy, Rotherham**

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. 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 online.

### **FMSP PD Video Club:**

<http://furthermaths.org.uk/using-pd-videos#fmsppdvideoclub>

The idea is that each week teachers watch a 5 minute video about an aspect of teaching A level Maths/FM then join in with the conversation on Twitter using [#fmsppdvideoclub](#)

Please pass the word on this on and join in with the conversation yourselves.

## **FMSP's Sustained PD courses for A level Maths and Further Maths**

Through continued government funding this year the FMSP is able to offer teachers a generous subsidy\* to cover the fees for our [sustained professional development courses](#). (*course fees reimbursed on completion*)\*

If you, or one of your colleagues, is looking for support to develop subject knowledge and pedagogy for teaching the new A level Mathematics or Further Mathematics specifications then consider applying for a sustained professional development course offered by the FMSP.

**Don't miss out!** Follow [this link to a one-sheet summary](#) containing key facts about all our sustained courses, including the ones which are now taking applications.

- **Teaching Further Mathematics (TFM1)** –starts in January
- **Teaching Mechanics (TM1)** – starts in January
- **Teaching Mechanics (TM2)** – starts in February
- **Teaching Statistics (TS1)** –starts in March
- **Teaching Statistics (TS2)** – starts in March
- **\*NEW\* Teaching Discrete Mathematics (TD)** - starts in January

*\*Teachers working in state-funded schools or colleges in England are eligible for a subsidy to cover their course fee of £300 per unit for TFM, TM, TS or TD which will be reimbursed at the end of the course.*

**South Yorkshire Maths Hub Post 16 Update**  
Past copies of Update can be uploaded from the SYMH website [newsletter page](#).  
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