

SYMH Post 16 & KS5 Update

April 2018

*An announcement has now been made (see below) to award MEI the contract for the new Advanced Mathematics Support Programme (AMSP) to replace the FMSP. This is good news for the FMSP team nationally who will mostly be continuing in their roles and expanding to encompass Core Maths support. In South Yorkshire however, there will be one major change as I will be stepping aside from my Area Coordinator role to focus on my growing Maths Hub responsibilities. My replacement has been secured and will be announced shortly but we are also **looking to appoint a Level 3 coordinator** to liaise between the new AMSP and SYMH and support developments across South Yorkshire (see below for further details).*

In this climate of increased funding to support level 3 mathematics including the latest on the Advanced Maths Premium ([see link](#)) South Yorkshire Maths Hub is committed to working closely with the AMSP team and we hope to be promoting opportunities for schools and colleges in the near future.

Cheers

Pete

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Network Meetings

A level & Further Maths

The summer meetings will be as follows

Tuesday 26th June: Wickersley, Rotherham: focus **Pure**

Tuesday 3rd July: Notre Dame, Sheffield: focus **Statistics**

Wednesday 4th July: Adwick, Doncaster: focus **Mechanics**

For further details contact

Kieren O'Sullivan (Pure & Statistics) at KOsullivan@notredame-high.co.uk OR

Rolf Hayes (Mechanics) at HayesR3@schoolpartnershiptrustorg.onmicrosoft.com

Core Maths teacher network

For the latest information re-venues and dates of the next meeting, please contact

Andy Barker at abarker@ecgbert.sheffield.sch.uk

Revision Day for AQA MFP3 Further Pure 3

Tutor: Mr. Rolf Hayes (FMSP)

All students from any school/college are welcome to attend part or all of the day.

To register interest in attending and for further details please contact Rolf on

HayesR3@schoolpartnershiptrustorg.onmicrosoft.com

Venue: DeWarenne Academy, Gardens Lane, Conisbrough, Doncaster, DN12 3JY

(NB:The X78 bus runs very close to the Academy.)

Thursday May 10th, 2018, 08:45 – 15:00 with an Optional extension to 16:00

See below for programme of the day

Programme for Revision Day for AQA MFP3 Further Pure 3

08:45 – 09:00	Registration and housekeeping
09:00 – 09:30	Maclaurin series – derivation from scratch and using standard results
09:30 – 10:00	Limits of sequences: $x^k e^{-x}$ as $x \rightarrow \infty$ and $x^k \ln x$ as $x \rightarrow 0$
10:00 – 10:30	Improper integrals: infinite interval of integration and undefined integrand at one end of the interval of integration
10:30 – 10:45	Break. Tea, coffee and biscuits will be provided
10:45 – 11:30	Polar coordinates 1 – sketching curves
11:30 – 12:00	Polar coordinates 2 – area enclosed by a polar curve
12:30 – 12:45	First order differential equations – solution by using an integrating factor and by complementary function / particular integral
12:45 – 13:15	Lunch. Students may bring a packed lunch or purchase a lunch from the Academy canteen
13:15 – 13:45	Second order differential equations with constant coefficients – the three forms of solution
13:45 – 14:15	Second order differential equations – reduction to linear form using a substitution
14:15 – 14:45	Numerical solutions of first order differential equations using Euler's method, Euler's improved method and the midpoint formula
14:45 – 15:00	Plenary session – tying up any loose ends

Optional Session

15:00 – 16:00	Opportunity to work on the AQA MFP3 June 2017 paper with reference to the Examiners Report
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Y12 Problem Solving Conference

Thursday 14th June. Venue: New College Doncaster

Led by AMSP regional leader and James Cranch of University of Sheffield this event will engage both teachers and students. An invitation to bring your y12 and engage in problem solving activities for both staff and students. This event is FREE to all schools. To register your interest please email Tara at admin@symathshub.org.uk

Level 3 coordinator post

South Yorkshire Maths Hub is looking to appoint a suitable professional to the post of **Level 3 Maths development coordinator**

Initially the post will be for the period 1st June 2018 – July 20th 2018 with a view to be extended for the entire academic year 2018/9. A commitment of up to a half day a week is possible although this can be negotiated based on current availability.

The role will involve supporting the Maths Hub Lead to develop and implement a local strategy for supporting the development of level 3 maths education within South Yorkshire.

The level 3 coordinator will be expected to liaise with the Area Coordinator of the newly formed Advanced Mathematics Support Programme (AMSP) as well as other local agencies. The coordination of work groups and work group leaders alongside the Maths Hub Lead will be a key element of the role as will supporting the development of new professional development programmes and preparing LLMEs to facilitate these programmes as appropriate.

The Level 3 coordinator will be expected to coordinate the evaluation of work groups and complete required summary reports for the local strategic board and the NCETM.

Who should apply?

This leadership role is for practitioners with relevant experience of leading the professional development of others, either in their own setting, or more widely.

Applicants must have the willingness and capacity to work with practitioners in other settings locally and their setting must support this as well.

Experience in working with students at Level 3 is expected but this may be very different for applicants and no predetermined expectation is made beyond an experienced qualified teacher.

Funding

This programme is funded by the Northern Powerhouse Funding to the 10 Maths Hubs in the North West, North East and Yorkshire and the Humber regions.

Funding covers up to one day per week for the period of 1st June 2018 to 20th July 2018 @ £400 per day. Actual time during this period can be negotiated based on current availability and capacity.

Local travel expenses are expected to be covered by this payment but if for any reason agreed by the Maths Hub Lead the leader is required to attend national meetings additional travel expenses will be paid.

How to apply

Applicants, with the support of their head teacher /principal/senior manager, should complete the appropriate form ([see link](#)) and submit it to the South Yorkshire Maths Hub at admin@symathshub.org.uk no later than 9 am on Monday 14th May.

Shortlisted candidates will be interviewed in the week commencing 21st May. Where possible the Maths Hub Lead will visit applicant's schools at a mutually agreed time to meet both the applicant and the senior leader / Headteacher.

MEI to manage new Advanced Mathematics Support Programme

MEI is delighted to announce that it has been awarded a contract by the Department for Education to deliver the new £16m programme to support level 3 mathematics, including AS and A level Mathematics and Further Mathematics, and Core Maths qualifications. The Advanced Mathematics Support Programme, or [AMSP](#), will provide national support for schools and colleges in England to improve the teaching of mathematics post-GCSE and increase participation in level 3 mathematics.

The AMSP, which will commence on 1 May 2018 and will run for two years initially, will be managed by MEI, working in partnership with Tribal Education. This partnership will facilitate coordination with the National Centre for Excellence in the Teaching of Mathematics and the Maths Hubs programme.

Since 2005, MEI has managed the highly successful Further Mathematics Support Programme (FMSP), supporting schools and colleges to increase student participation in AS and A level Mathematics and Further Mathematics. Over this time, A level Further Mathematics numbers in England have increased from below 6000 to over 15 000 and A level Mathematics numbers have risen from around 48 000 to over 87 000. A level Further Mathematics has risen from the 27th to 16th most popular A level, and A level Mathematics has risen from 4th to 1st. The proportion of state-funded schools and colleges entering students for A level Mathematics that have A level Further Mathematics entries has risen from below 40% to around 70%.

The Advanced Mathematics Support Programme will supersede the FMSP, and will continue to provide similar services and support to all state-funded schools and colleges in England. In addition the new programme will also provide support and resources for the teaching of [Core Maths](#).

MEI's Chief Executive, Charlie Stripp, said:

“We are delighted that MEI has been recognised as having the experience and the expertise to deliver this new programme, which has the potential to stimulate further growth in uptake of A level Mathematics and Further Mathematics, and to really boost the uptake of Core Maths.

Studying maths beyond GCSE level helps to ensure young people are equipped to play a full part as informed citizens in an increasingly data-driven world and opens up exciting opportunities to access high income careers in business, technology, engineering and science. All students who achieve a grade 4 and above in GCSE Maths should study maths post-16, whatever their future aspirations.”

You can read more about this new programme in [this news item](#) on the MEI website.

South Yorkshire Maths Hub Post 16 Update
Past copies of Update can be uploaded from the SYMH website [newsletter page](#).
SYMH Administrator Tara Webster can be contacted at admin@symathshub.org.uk