



## NANAMIC Update April 2016

### NANAMIC Annual Conference

Monday 11<sup>th</sup> July 2016, from 9.45 am to 4.00pm

Stoke-on-Trent College

### Motivating mathematics learning

*Our focus this year is on highlighting teaching approaches and resources which stimulate and engage learners. This is of especial relevance at a time when mathematics will become a compulsory subject for many reluctant post-16 learners. This event also offers an opportunity for you to share your expertise and ideas with teacher colleagues.*

### Keynote speech Developing mathematical resilience

*Dr Clare Lee, Open University*

#### **Confirmed CPD workshops include:**

- *Creating puzzles, investigations and games which reinforce mathematical concepts*
- *Building conceptual understanding using "Maths in Context" teaching approaches*
- *The impact of dyslexia and dyscalculia on the acquisition of numeracy skills*
- *Core mathematics including an update and an opportunity to share problem solving resources of more general interest*

Booking forms and further information are available from our website  
[www.nanamic.org.uk](http://www.nanamic.org.uk)

**Cost: Members £99, Non-members £119 inclusive of membership fee.**

Please note: this is the **only** Maths subject association conference particularly for teachers in the FE and Skills sector!

## Contextualising post-16 GCSE mathematics

20 & 21 June 16

National STEM Learning Centre, University of York, York YO10 5DD

Run in conjunction with MEI, this two day residential CPD activity is designed for mathematics specialist practitioners who teach resit GCSE mathematics which concentrates on the use of contextualisation in the teaching and learning of post-16 GCSE mathematics. Participants will use the MEI contextualisation toolkit to explore ideas about contextualisation, discover sources of inspiration and will have the opportunity to develop their own resources. All participants will become members of an online community to share ideas and resources.

This is a residential course; fees include meals and accommodation for the duration of the course. Course fees vary for participants outside the UK. Please contact [enquiries@stem.org.uk](mailto:enquiries@stem.org.uk) for more information.

Participants will:

- develop their expertise in the use of context in the teaching and learning of GCSE mathematics post-16
- develop confidence and skills in delivering GCSE mathematics resit to post-16 students
- explore a variety of freely available teaching resources which can be adapted to be used in context
- develop and share their own contextualised resources

A very generous ETHUSE bursary covering the majority of the costs is available to state-funded schools and colleges in the UK.

For further details and to book a place, visit the [STEM website](#).

## NUMERACY APPS

Here is a quick update on the first National Numeracy app advisory group which took place on March 22nd. The app is a game designed for 16-25 year-olds. It is based on the globally popular Temple Run game but set on a film 'set'. The game runner is a 'runner' on the film set going from scene to scene, collecting coins as in Temple Run, clearing obstacles, as in Temple Run and doing maths challenges. The maths challenges themselves seem rich and well-structured as the game levels increase. It could be one to look out for in the future.

A free app which is both fun and challenging is MEI's SUMAZE which has puzzles involving arithmetic, inequalities, the modulus function, indices, logarithms and primes. For more information, click on this [link](#).

## MEI Conference

The MEI Conference is an annual three-day event run by Mathematics in Education and Industry for 11-19 mathematics teachers of all specifications

- Get on track for the 2017 maths A levels with dedicated sessions
- Discover innovative ways to engage all 11-19 students
- Explore Core Maths – the new post-16 qualification with so much potential
- Sharpen your skills in embedding the use of technology

[Register now](#) to ensure your place!

The absolute deadline for registration is Monday, 20th June 2016. However, a place is only guaranteed if you register before Thursday, 9th June 2016.

## LMS Popular Lectures

The London Mathematical Society Popular Lectures present exciting topics in mathematics and its applications to a wide audience. The LMS Popular Lectures usually feature two lecturers who have been chosen for their mathematical distinction and communication skills. The Society aims to present a wide range of mathematical topics in the lectures, which are suitable for all who have an interest in mathematics.

The Popular Lectures are a free annual event held during either June or July in London and repeated in late September at another venue in the UK. For the past few years this has been Birmingham.

Further details of this year's lectures can be found on their [website](#).

## NUMERACY SKILLS for Employability and the Workplace

According to this website it can "Improve your mathematical confidence and gain the skills to pass employers' numeracy tests." The duration of the course is 3 weeks with about 4 hours per week. It comes complete with certificates (additional cost) after you have completed the course to show you have taken part.

Click on this [link](#) for more information and to register your interest

NOTE: NANAMIC does **not** endorse this product and is just passing on information about it.

## FUNCTIONAL SKILLS REFORM PROGRAMME

The consultation with employers has now closed. Some of the findings are:

- Employers need people who can speak confidently and clearly. Additionally, they need new recruits to be able to write without errors and communicate in a style suited to the intended audience (e.g. using formal language and not 'text speak'). Common issues include the need for better spelling, punctuation and grammar and being able to write and communicate clearly;
- In maths, employers place particular importance on the basic skills of mental arithmetic, estimating, working out percentages and ratios, and being able to apply these in a business setting such as working out VAT or overcoming a work-related problem to reach a solution;
- Views are mixed on the importance of digital skills within a maths or English context, with larger employers tending to place more importance on employees being able to use digital tools effectively. In this context one such example was the use of MS Excel and formula when making calculations;
- In summary, employers would like to see Functional Skills that result in learners being able to apply basic skills more effectively in the workplace, such as communicating well, writing accurately, and being able to perform relatively simple calculations and overcome work-based problems.

The second consultation (with practitioners, subject experts, etc.) is scheduled to begin on 18th May. For further details and to register your interest, check out [Pye Tait Consulting](#)

## Raising achievement for Post 16 Mathematics GCSE resit students

The conference, organised by MMU, takes place on **Friday 24th June from 10am – 4pm at Manchester Metropolitan University**, Brooks Building, 53, Bonsall Street, Manchester, M15 6GX.

This conference builds on their research funded by The Nuffield Foundation into how the Realistic Mathematics Education approach developed in The Netherlands can be used to enhance achievement and engagement for Post 16 GCSE resit students.

The conference will provide participants with:

- Strategies for encouraging students to make sense of their mathematics using contexts and models
- Examples of pre- and post-test scripts which show students making significant progress
- **A free copy of classroom ready materials** for developing understanding of GCSE topics in Number and Algebra

**Sue Hough, Steve Gough, Paul Dickinson & Yvette Solomon** will lead the course all of whom have first-hand experience of using this approach with GCSE resit classes. In addition, teachers involved in the projects will be on hand to share their experiences.

The course is suitable for teachers and teaching assistants involved in GCSE resit.

**Cost: £50** (Free to colleges which took part in the project.)

For conference leaflet see [here](#)

To book your place, complete the [application form](#) and return it to [stem.education@mmu.ac.uk](mailto:stem.education@mmu.ac.uk)

### NEWS EXTRA

**NANAMIC** continues to be on twitter. Please follow us @NanamicCio for the latest news, updates and events.

The latest **NCETM** newsletter can be viewed on the NCETM website

<https://www.ncetm.org.uk/news/48853>