Maths Pipeline

How to teach GCSE maths

Mathematics tutors across the post 16 sector are having to extend their skills from being a specialist in the teaching of functional skills to that of a confident GCSE teacher.

If you are new to teaching GCSE this 3 day training programme will help you to:

- improve your knowledge of mathematical concepts and subject knowledge such as pythagoras, algebra and trigonometry
- show you effective methods of delivery, and support you to design an effective scheme of work that will help learners improve their grades
- demonstrate how aspects of the GCSE syllabus can be interlinked and the benefits of teaching in a holistic manner
- engage and address motivational issues with disaffected learners
- explore new and established methods of incorporating technology within teaching of mathematics.

The course is intended to be both proactive, in terms of introducing new concepts, and reactive, in terms of responding to delegate needs. The training will also consider the changes that will be required for GCSE teaching from 2016

Course Impact: **On teacher:** increased teacher confidence and skills delivering GCSE mathematics   **On organisation:** mathematics teachers attending the course will feel more supported and confident in their delivery of mathematics   **On learner:** alternative approaches to engage learners giving them the confidence to try and succeed,
Target Audience: • Tutors from further education new to teaching GCSE mathematics   • Tutors from independent training providers new to teaching GCSE mathematics   Participants must be confident in the delivery of functional skills to level 2 and be familiar with the GCSE syllabus, or will be new to teaching mathematics but already have a good subject knowledge
Course Aims: Tutors will have the skills and confidence to develop learners' holistic understanding of mathematical concepts so they can apply the procedures from one topic (for example algebra) to another (for example trigonometry).
Course Learning Outcomes: Mathematics teachers will have the knowledge to be confident to: • deliver a programme of GCSE mathematics in the post 16 sector which will

- support learners to achieve higher grades in their GCSE re-sits
- create a scheme of work that links underpinning skills of mathematics building on prior knowledge
- incorporate digital technology in and out of class to engage and motivate learners
- understand the changes required for GCSE teaching from 2016.
- join a network of practitioners for support and advice in a 'community of practice' to sustain professional development.

3 days: 09.00 – 16.00. As the course takes an holistic approach to the teaching of mathematics you must attend all 3 days. It may however be possible to attend each day at different venues to take account of your teaching commitments.

Completion of application form that evidences:
- Experience of teaching mathematics (functional skills or GCSE) at level 2
- Personal competency at GCSE grade A-C

Subsidised fee: £200 per person for 3 days.

If your organisation would like to host a course we can offer a set fee for 4-9 tutors at £700 if you are willing to accept external delegates.
Please contact Sue Lownsbrough at sue.lownsbrough@hughbaird.ac.uk if you would like to host an event.