

Queen Mary
University of London

MTH6110

Communicating & Teaching Mathematics

The Undergraduate Ambassadors Scheme

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Welcome!

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Overview

- The UAS is an independent organisation which provides a framework for modules like this one, across different universities and is currently undergoing a transition (www.uas.ac.uk).
- There are ~158 departments in 50 universities running a UAS module. All have roughly the same format, so a UAS module is recognised beyond Queen Mary.
- In our module, you will visit a local secondary school to observe and assist with the teaching of mathematics and attend discussion and analysis sessions with us (and invited guests) each week.

The aims are:

- to understand how schoolchildren learn mathematics, and what teaching methods work best for different types of learners;
- to explore and critically analyse pedagogic research in the discipline;
- to observe and reflect on the teaching of mathematics in schools;
- to participate in teaching activities, ranging from individual help to small-group work to leading a whole class;
- to contribute to the school by planning and executing a special project;
- to gain professional writing and presentation skills.

Another (possible) aim?

College Students:



You took everything from me

Professors:



I don't even know who you are

Application Process:

- 1. Register for the module on mySIS.** You must select MTH6110 in order to continue with the application process. **Deadline: Fri 06 Oct (Week 2)**
- 2. Write an application statement.** Write a brief statement describing your interest in the module, teaching experience etc. There will be a form to fill out and upload to QMplus. **Deadline: 5pm Tue 10 Oct (Week 3)**
- 3. Interviews.** Suitable applicants will be invited for a 10-minute interview, including a prepared 2-3-minute mock lesson, with us as pupils/interviewers. **Interviews: on the 18, 19 and 20 Oct (Week 4)**
- 4. Final selection.** You will receive notification in November of whether you have been selected to take part in the module. If not, then discuss alternative modules with your Advisor and change your module selection in January. **Results: by 10 Nov (Week 7)**

If you are selected...

- 1. DBS checks.** Formal procedure to check your criminal record. You will fill in a DBS form (presented to you at interview) and return to the Maths Office with three forms of ID. You then receive a DBS certificate, which your school may ask to see.
- 2. School choices.** You will be allocated a placement in one of the (fairly) local schools that we work with.
- 3. Training session.** There is a **compulsory** training session **13:00-15:00 Wed 06 Dec (Week 11)**; it is essential students taking the module attend the induction.
- 4. Liaise with your school.** Go through the Sem B Preparation Checklist, Introduce yourself to your 'mentor teacher', arrange an introductory meeting and further induction meetings, arrange dates for your placement visits.

Deadline: By the start of the January examination period

If you are selected...

This module is not like your other electives! You cannot

- swap it with another module in Week 1/2 of Semester B
- use MME to engage with the weekly module sessions

We secure each student a specific placement and will expect you to be on campus with us and working face-to-face with teachers and students.

If you are selected and are having doubts (about anything), please contact us **as soon as possible!**

The Placement

- Most of the schools start their term several week before ours, so don't leave it until mid-Jan to arrange your placement – you will struggle to fit in all the visits.
- Arrange ~10 placement visits, 3–4 hours each, at the same time each week, with the same classes. You may have an occasional visit at another time.
- Discuss with your mentor teacher which group(s) of pupils you would like to work with.
- You should begin by observing teaching and providing individual assistance to pupils as directed by the teacher; in later visits, you may lead the whole class for part (or all!) of a lesson.
- Please **do not** schedule your placement visits during our timetabled sessions in Semester B: **Fridays 9:00-11:00 in PL-302**

What is happening in this picture?



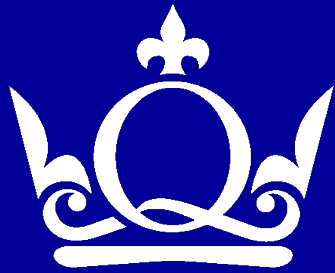
Module Mechanics

During Semester B, we will have weekly discussion sessions, which will include:

- Discussion of visit experiences and troubleshooting ideas
- External speakers with various school teaching experience
- Exploration of research in mathematics pedagogy
- Tips on writing reflective and critical analysis essays
- Presentations and peer feedback on special projects

You will be completing a weekly **Logbook** to connect your placement experiences to the themes of our discussion sessions, writing critical analysis/summary **essays** on Maths Education research, giving **presentations** and doing a **group project**. During the placement you may also plan and carry out a special project.

More information is available on the QMPlus page, including an assessment breakdown, application form, overall structure of the module, etc.



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Questions?

Thank you for listening