

Queen Mary
University of London

MTH6110

Communicating & Teaching Mathematics

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WELCOME!

Plan for today

- Part I – Placement Induction
- Part II – Module Overview

Part I – Placement Induction

Checklist

- QM Induction
- Placement Assignment – WFC or NCC
- College Induction
- Key Contact(s) + Placement Days

Part II – Module Overview

1. Welcome to MTH6110!
2. QMPlus walkthrough
3. What's with the...?
4. An exercise

Who are we?

- Introductions – ML, SB
- We = all of us (including you)!



Exercise 1 – A simple lesson in communication

Individually - Take 2 minutes to think about how you might teach a child how to count to 5. Not theoretically, but with whatever we have in your room/on hand/nothing at all.

In Groups - Teach each other, share methods



Questions to consider

- What difference did you notice in the way you approached this vs groupmates?
- What were some assumptions you made when teaching this?
- What mathematical skills are underlying learning this lesson?

The Module 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 communicating and teaching of maths;
- 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.

Module Mechanics

We will have weekly discussion sessions, including:

- 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/PDP](#) to connect your placement experiences to the themes of our discussion sessions, writing [critical analysis/summary essays](#) on maths pedagogy, and [giving presentations](#). During the placement you may also [plan and carry out a Special Project](#).

More information available on the MTH6110 QMPlus page in due course.

What normally happens in MTH6110 looks a lot like this



Exercise 2 – Self-Audit

Individual writing exercise

- Why are you in this module and what do you hope to get out of it (skills, knowledge)?
- What might be a potential barrier for you in this module?
- What support might you need to overcome this barrier?

Gap Analysis is important: what skills do you already have and where do you want them to be in 12 weeks' time?

What's with the...

- Weekly Checklist?

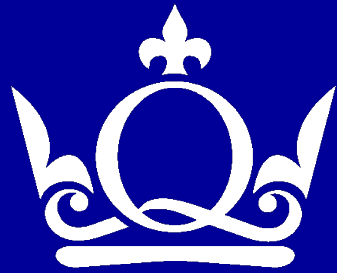
Reading, Interacting, Watching, Reflecting, Writing

- Friday Movie?

Curated for depth, challenge and fun!

- “Nontraditional” Assessment Pattern?

Authentic, appropriate and challenging



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Questions?

Thank you for participating!