

**Queen Mary**  
**University of London**

**MTH6110**

**Mathematics Education Research Literature**

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# (Maths) Education Research Literature

## Objectives for next few weeks

- basic structure of a research article
- how to approach content
- interpretation/application of conclusions
- how to find relevant resources
- citing resources in your own work

# Plan for Today

1. Housekeeping & Assignment 1
2. Discussion – Reading Assignments 1 & 2
3. Reading research literature
4. Reflecting on our “Skills Checklist”

# BUT FIRSTa Warmup Exercise (BIG QUESTION)!

In a few brief sentences, explain...

*Why is school compulsory?*

# Warmup Exercises (continued)

In a few brief sentences, explain...

## *Why is school compulsory?*

- History - Was it always this way? What about for different groups (e.g., women/men, indigenous populations, etc.)?
- Geography - Is it the same in every country?
- Politics – What subjects should be compulsory (e.g., Maths, Religion, Science, History, ...)?

# Warmup Exercises (at home)

This is a complex and modern topic

- [Sierra Leone's president defends large education budget as 'necessary risk'](#)
- [Rishi Sunak wants all pupils to study maths to age 18](#)
- [How math became an object of the culture wars](#)
- [The sinister attempts to 'decolonise' mathematics](#)

*Note: The above articles were chosen simply to indicate the variety and level of discussion one encounters when searching in this general area. We may (and probably should) agree/disagree with parts in every one of them!*

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# Updates & Deadlines

- Update on Placements, Office Hours, ...
- Any questions on your Reflective Learning Log?
  - empathy, listening, patience, confidence, ...
  - communication, presentation, teamwork, organisation, ...
  - school/college structure, pedagogy, explaining concepts, ...
- Curriculum Vitae – Assignment 1 due Fri 09 Feb
- We are also working on a great lineup of guest speakers for this semester: topic suggestions welcome!



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# Reading Assignment 1 – 6 components of great teaching, according to Coe et. al.

- **Reading Demonstration –**
- **Individually –** Arrange the 6 components from most important to least and justify
- **In Groups – Compare/discuss/report back**

## Why?

- Why did we do this exercise?
- Why are we reading this article?
- How is this related to anything else in the module?

# 6 components of great teaching

Content  
Knowledge

Instruction  
Quality

Classroom  
Climate

Classroom  
Management

Teacher  
Beliefs

Professional  
Behaviours

## Reading Assignment 2 – What makes a great introduction? Try this at home

**Individually** - Write down as many tips and tricks (or things to avoid) as you can for writing a great introduction in 3 minutes.



**With some colleagues** - Compare and contrast your answers and see which one are/are not followed in the Coe et. al. introduction.

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# (Maths) Education Research Literature

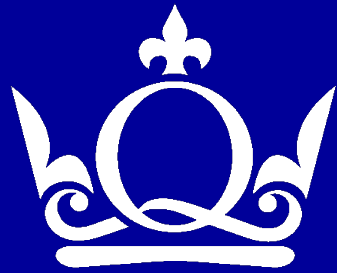
Today, we have taken first steps towards objectives

- basic structure of a research (review) article
- how to approach content
- interpretation/application of conclusions
- how to find relevant resources
- citing resources in your own work

# Our (Weekly) Skills Checklist

- Reading
- Interacting
- Watching
- Reflecting
- Writing





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Questions?

**Thank you for your participation!**