

## PGCE Mathematics Joining Pack Information: September 2023

Hi everyone,

In order to get a head start on what will be a busy, challenging and exciting year ahead, please carry out the following tasks before the programme begins on the 4<sup>th</sup> September 2023. They will give you a good starting point in terms of some of the subject knowledge and skills that you will develop further as the course progresses. Follow the hyperlinks in this document to the relevant web pages.

Once enrolled, you will be added to a Microsoft Teams page titled, *PGCE Mathematics 2023-24*. This will be your go-to Teams site next year and will be my main channel of communication with you throughout the year.

### 1) CONFIRM YOUR PLACE

When you receive this pack, email me at [cgstewart@cardiffmet.ac.uk](mailto:cgstewart@cardiffmet.ac.uk) to confirm that you will starting with us on 4<sup>th</sup> September 2023.

### 2) DO SOME MATHS

Access the past papers sections of the [WJEC website](#). Follow the link here to find out more about the current 3-tier [GCSE Mathematics for Wales](#) (Mathematics and Mathematics-Numeracy, 3-tier) and how things have changed since 2016. The new Mathematics and Mathematics-Numeracy 3-tier past papers are available on the site. Please **print off and complete** the following papers:

[GCSE 2022 SUMMER – MATHEMATICS UNIT 1 HIGHER](#)

[GCSE 2022 SUMMER – MATHEMATICS UNIT 2 HIGHER](#)

[GCSE 2022 SUMMER – MATHEMATICS-NUMERACY UNIT 1 HIGHER](#)

[GCSE 2022 SUMMER – MATHEMATICS-NUMERACY UNIT 1 HIGHER](#)

As you work through the GCSE papers, think about and write down some misconceptions that you think pupils may have with some of the questions. Be ready to bring these papers and your ideas with you in September. Being aware of and revealing pupil misconceptions are crucial to help plan teaching and learning in ALL classes. **Good subject knowledge will be a crucial factor in a successful PGCE year.** We will complete a subject knowledge audit within the first couple of weeks of the programme to support you in identifying areas of strength and areas for development ahead of your first school placement.

There have also been some recent changes to A level specifications which were examined for the first time in Summer 2018. Have a look at the specification [here](#) and access the [Year 12 AS Pure Maths paper](#) as well to check your current knowledge at this level.

### 3) DO SOME READING

Start to read some literature on teaching and learning in the secondary school. A good general starting point is the book [‘Effective Teaching’ by Daniel Muijs and David Reynolds](#). Reading Chapters 1 to 7 of this book will be very helpful. A very useful practical and easy read focused on maths teaching and learning is [‘The Perfect Maths Lesson’ by Ian Loynd](#) – Ian works in one of our partner

schools and is a regular visitor to Cardiff Met. Another really interesting book which I highly recommend is [Craig Barton – How I wish I'd Taught Maths](#). If you are looking for extra reading I would also take a look at ['Yes, but why? Teaching for understanding in mathematics' by Ed Southall](#). All of these books are available in the library once you have enrolled or you can be pick up your own copy on Amazon.

Also, familiarise yourself the [Hwb website](#) and with the following Welsh Government documents relating to maths in the National Curriculum in Wales, the Literacy and Numeracy Framework, Digital Competence and the new Curriculum for Wales implemented from 2022 onwards.

[New Curriculum for Wales](#)

Good luck with these tasks. I am very much looking forward to working with you all in September!

Best wishes,



Cameron Stewart  
**Programme Leader: PGCE Secondary Mathematics**