



Rhaglen Gymorth Mathemateg Bellach Cymru

Further Mathematics Support Programme Wales

Wednesday 9th March 2022

Dear ,

Why offer Further Mathematics?

Mathematics is by far the most popular A-level taken in Wales. It supports students in learning to think logically and systematically, leads to interesting well-paid jobs and supports many other areas of study. **Equally beneficial is A-level Further Maths.** Seven top universities require Further Maths for their Maths courses, and eight others reduce their entry grade requirements for Further Maths students. Even some Computer Science, Engineering and Economics courses recruit mainly from among Further Maths students, still more universities recommend it as a useful qualification. Further Maths students also find the transition to university easier. Schools offering A-level Further Maths equip their students to succeed.

Fortunately, in Wales, every student can study A-level Further Maths if their schools simply enable and encourage them to do so. The Further Maths Support Programme in Wales, founded and funded by the Welsh Government, provides tuition to students in schools where Further Mathematics is currently not offered. We also provide FREE Professional Learning and Resources enabling teachers and schools to develop their own in-house delivery from GCSE up to Further Maths. Schools offering Further Maths are able to recruit maths teachers with the deepest subject knowledge and passion for their subject, able to inspire their students.

Clearly, enthusiasm for any subject does not suddenly spring to life fully-formed when students are choosing their A-levels. Since it needs nurture and encouragement from an early age, we also therefore offer FREE enrichment activities making maths meaningful and fun to students lower down the school and in primary schools. Summaries are enclosed – further details can be found on our website or by contacting us.

We would be delighted to support you in strengthening your Further Maths provision and encouraging your students to study Further Maths at A-level. Please use the contact details below to start the conversation, or consult our website at <https://furthermaths.wales>. Secondly, whether or not your school offers Further Maths, we encourage you to work with us to further develop your curriculum with the many enrichment events we provide.

Yours Faithfully,
FMSPW Team

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Further Mathematics Support Programme Wales

The Further Maths Support Programme for Wales offers five main pillars of support:

FMSPW Further Mathematics Tuition

To allow students whose schools do not offer Further Maths A-level to study it. Support for schools who only need help with particular Further Maths units. furthermaths.wales/teachers/tuition/

Action Research

Connected GCSE and A-level Maths Curricula

The impact of explicitly considering mathematical connections when planning.

Dynamic Software

Use of dynamic software in and out of the classroom.

Multi-Intervention

The effects of a coordinated package of maths enhancement.

Visualising Statistics

The impact of visual software on statistics learning.

Flipped Classroom Approach (FCA)

The impact of the FCA when curriculum time is squeezed. Best practice for the FCA.

FREE Professional Learning

Further Mathematics Units

All units covered. Also topic focussed courses. Including self-study materials.

Mathematics Units

All units covered. Including self-study materials.

Additional Maths

Coming this summer. Linked to Desmos course.

GCSE Higher

For teachers for whom mathematics is not their main subject.

Dynamic Software

Geogebra and Desmos courses.

Pedagogy

Flipped Classroom, blended learning, connections.

Conference ICMT

Innovation and Creativity in Mathematics Teaching.

FREE Resources

A-level Mathematics and Further Mathematics Scheme of Work

Everything you need for planning and resourcing your Maths and Further Maths delivery.

Geogebra dynamic software

To be released over the next few months, covering all of Maths and Further Maths.

Flipped Videos

Covering all of Maths and Further Maths with PowerPoints for making your own and Gapped notes on the way.

Revision Videos

Covering all of Maths and Further Maths.

Curriculum for Wales

Two of our team were expert advisors to the M&N AoLE. Enrichment activities and allied resources towards implementation.

Desmos dynamic software

Full Additional Maths course and more to come...

FREE KS4, GCSE and A-level Enrichment

Primary Pilots

In-school sessions to ignite mathematical curiosity.

Maths Club

In-school sessions to fan the flames of mathematical curiosity.

Careers in Maths

In-school presentations showing the range of work which involves maths.

ItoPS, STEP and MAT

Problem solving towards university entrance exams.

Problem Solving

Problem solving to support the general curriculum.

Student Conferences and Masterclasses

Emphasising that mathematics can be both fun and challenging. Held at universities across Wales.

Revision Sessions

Half-day revision sessions for all Further Maths Units. available to all students and teachers.

The Further Maths Support Programme for Wales is a Trusted Publisher for Hwb.