

Maths ED CYMRU

Celebrating maths education in Wales

NETWORK • PRESENT • INSPIRE

SATURDAY

29th June 2024
9.30am-4pm

PEMBROKESHIRE COLLEGE

Merlin's Bridge, Haverfordwest, SA61 1SZ

For more information

mathsed@pembrokeshire.ac.uk

TICKETS



<https://www.pembrokeshire.ac.uk/paymyfees/product/mathed-cymru/>

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Welcome to MathsED Cymru

Welcome, educators of Wales, to a grassroots movement that celebrates the cornerstone of learning - mathematics!

As we embark on this journey together, we invite you to embrace the power of knowledge, the beauty of numbers, and the limitless possibilities they hold. In a world where problem-solving is paramount and critical thinking reigns supreme, your role as educators is more vital than ever.

This conference is not just a convergence of like-minded people, but a testament to our collective commitment to nurturing young minds and shaping the future. Let us unite in our quest to ignite a passion for mathematics, empowering our students to unlock their full potential and conquer the challenges that lie ahead.

Together, we can inspire greatness, transform lives, and pave the way for a brighter tomorrow. Welcome to a symphony of ideas, innovation, and inspiration - welcome to
MathsEd Cymru!

MathsED
CYMRU

Why you should attend

Cutting-Edge Strategies

Gain access to the latest methodologies and techniques to enrich your mathematics teaching practice. From innovative lesson plans to incorporating technology, discover strategies designed to engage and empower your students.

Curriculum Alignment

Understand how to effectively align your teaching with the Welsh curriculum standards. Stay ahead of the curve in implementing changes and updates, ensuring your students receive a well-rounded mathematics education that meets national requirements.

Networking Opportunities

Connect with fellow mathematics educators from across Wales, sharing insights, challenges, and best practices. Collaborate and build a supportive network that fosters professional growth and development.

Specialised Workshops

Choose from a variety of workshops tailored to meet your specific needs and interests. Whether you're interested in differentiated instruction, assessment strategies, or promoting mathematical thinking, there's something for everyone.

Keynote Presentations

Be inspired by renowned experts in mathematics education. Gain valuable insights and perspectives that will invigorate your teaching approach and reignite your passion for mathematics.

Resource Showcase

Explore an array of resources, materials, and tools designed to enhance your mathematics curriculum. Discover new textbooks, manipulatives, and online resources to supplement your teaching and engage your students.

Professional Development

Earn valuable professional development credits while expanding your knowledge and skills in mathematics education. Enhance your resume and demonstrate your commitment to excellence in teaching.

Don't miss this opportunity to elevate your mathematics teaching practice and make a meaningful impact on your students' learning journey. Register now to secure your spot at this must-attend conference for mathematics educators in Wales!

Maths ED

CYMRU – 2024

Celebrating Maths education across Wales

KEYNOTE SPEAKERS

Mary Myatt

Mary Myatt is an education adviser, writer and speaker. She trained as an RE teacher and is a former local authority adviser and inspector. She engages with pupils, teachers and leaders about learning, leadership and the curriculum.

Mary has written extensively about leadership, school improvement and the curriculum. Her current work focuses on the Huh Curriculum series for primary, secondary and SEND alongside the Huh Academy with John Tomsett. She has established Myatt & Co, an online platform with films for ongoing professional development including the popular Primary Subject Networks and Secondary Subject Networks.

Mary is a patron of CAPE, has been a governor in three schools, and a trustee for a Multi Academy Trust. She maintains that there are no quick fixes and that great outcomes for pupils are not achieved through tick boxes.



Lloyd Hopkin

Lloyd Hopkin is Deputy Director for Curriculum and Assessment in Welsh Government. He has held a number of roles in the Curriculum team, including leading on the development of the Health and Well-being AoLE and overseeing refinement and rollout of the Curriculum for Wales. As a civil servant, he has also held roles in Oil and Gas Tax; Tourism and Work and Pensions. He also trained as a Barrister.



SPEAKERS

Gareth Bentley

PRESENTATION: Developing a culture of change within a department as a new leader



Gareth is currently Curriculum Leader for Mathematics & Further Mathematics at Gower College Swansea. Since being awarded a scholarship from the Institute of Maths and its Applications in 2014 to study for his PGCE, Gareth has worked in several secondary schools across South Wales and held a variety of roles from Assistant Department Lead to Lead Practitioner for Mathematics. Gareth made the transition from secondary to FE in 2021 and is now responsible for one of the largest A Level maths and Further maths cohorts in Wales.

Matthew Bracewell

PRESENTATION: Low stakes assessments and independent practice linked with Sparx



Matthew (@bracewellmr) has been teaching maths for 10 years to 11 to 16 year olds. Matthew is in his first year as Head of Department, currently working in Manchester. He has 15 years experience in hospitality, covering all the bases from bartender, chef, door supervisor and manager.

Gerwyn Green

Workshop: Enrichment for A-Level mathematicians and further mathematicians - using the R software to explore statistical concepts.



Ruthin School

Established 1284

Gerwyn is currently Head of Mathematics at Ruthin School. Previously, Gerwyn was employed at the Centre for Health Informatics Computing and Statistics at Lancaster University and the Department of Statistics at Colorado State University.

*To get the most out of Gerwyn's workshop, please bring your own device and have R Software downloaded in readiness for this session. This software can be used to help learners better understand fundamental statistical concepts.

SPEAKERS

Gwenllian Jones

PRESENTATION: Ways to embed maths in humanities



Gwen is currently a Humanities teacher in a 11-16 Secondary Bilingual school and is currently the Head of Year 7. Since joining the school three years ago, she has seen the importance of applying numeracy skills within subjects such as Religious Studies, History and Geography so that students may be able to see the application of mathematical skills in different subjects.

Michael Lancaster

WORKSHOP: Engaging the disengaged - a practitioner's view



NCETM Further Education Mastery Trailblazer. Michael is a maths teacher, passionate about improving learner outcomes stating he is “supporting low attainers to achieve a Level 2 qualification” in his remit within the maths Hub workgroup participant. Previous roles include Centres for Excellence in Maths PD Lead and University of Nottingham Maths-4-Life Lead Teacher. within the maths Hub workgroup participant. Previous roles include Centres for Excellence in Maths PD Lead and University of Nottingham Maths-4-Life Lead Teacher.

Dr Sofya Lyakhova

PRESENTATION: From Euclid to Origametry



Sofya Lyakhova holds the position of Associate Professor of Mathematics at Swansea University and serves as the Program Leader for a significant national initiative dedicated to supporting post-16 mathematics education in Wales—the Further Mathematics Support Programme Wales (FMSPW), funded by the Welsh Government. Sofya has an extensive background in teaching mathematics at both school and university levels, as well as in teacher professional development, curriculum design, assessment in mathematics, and public engagement in mathematics.

SPEAKERS

Jo Morgan

WORKSHOP: Challenge and Depth



Jo is Head of Maths at Harris Academy Sutton. She writes the website resourceaholic.com where she shares teaching ideas and resources for secondary mathematics. Jo is also the author of "A Compendium of Mathematical Methods" and a regular guest on Mr Barton's podcast.

Mel Muldowney

WORKSHOP: Why two way tables rock!



Passionate about teaching and hoping to "make a difference". Mel is one third of the JustMaths team, who worked together at an ordinary high school in the Midlands, which was previously designated as National Challenge and went on to become "most improved school in England" (Jan 2013 league tables). The maths department saw A* to C results increase from 47% four years ago to results consistently in the 80%s (20+% above target!).

Elaine Sinclair

WORKSHOP: GCSE to A-Level: The transition for maths students



Elaine studied Mathematics at Birmingham University followed by a PGCE in Secondary Maths Education at Oxford University. She taught Maths in Secondary schools in Bridgend and Birmingham and went on to work as a maths teacher trainer in Ghana with VSO (Voluntary Service Overseas). She later worked in a projects development role with Tide~ an educational charity supporting global perspectives in the curriculum. She has been teaching post-16 learners at Pembrokeshire College since 2010 and has taught Essential Skills, GCSE maths and Welsh Baccalaureate. Her current teaching role is in A-Level maths and Further Statistics.

SPEAKERS

Rhiannon Rainbow

WORKSHOP: Strategies to improve outcomes in GCSE Maths



(@Noni_Rainbow) is a maths teacher with 20 years' experience teaching secondary, a co-author of the book "Edu-Book Club, Making CPD Resources Work in the Classroom" and co-founder of rED South West. Rhiannon completed a 4 year BSC Hons QTS Primary Maths EY before moving to secondary. In 2018 she joined the Greenshaw Learning Trust and in 2020 she co-founded the GLTBookClub with Dave Tushingham.

Rob Randel

WORKSHOP: Why teaching maths is teaching reading 2



Rob Randel has been a primary teacher for 18 years. Having promoted high quality and evidence-informed early reading instruction for several years, he has a wealth of experience in advising school leaders and teachers about the science of reading, and how they can best evaluate their current provision. Since 2021, he has been a committee member of the Reading Reform Foundation and an advisory group member to the International Foundation of Early Reading Instruction.

Dave Tushingham

WORKSHOP: The Edu-Book Club - Making CPD resources work in the maths classroom



Dave is a lead practitioner in a school in Bristol. He is an accredited NCETM PD lead and a co-author of the book "Edu-Book Club, Making CPD Resources Work in the Classroom". Dave enjoys learning from likeminded teachers through conferences, such as these. With 20 years of teaching experience, Dave hopes that he can contribute something to the discussion too, sharing ideas he has collected along the way.

SPEAKERS

Gareth Metcalfe

PRESENTATION: Developing reasoning routines



Gareth Metcalfe, the Director of I See Maths, provides training and resources that help primary school children to build a deep, conceptual understanding of mathematics. Gareth is the author of the “I See Reasoning” and “I See Problem-Solving” resources, helping schools to put reasoning and problem-solving at the heart of the maths curriculum.

Martin Newton

WORKSHOP: People maths



Martin taught maths for 20 years in Further Education, working with 16-18 and adult students, and was a curriculum leader and manager. Since joining MEI in 2019, Martin has worked on a range of projects and specialises in FE maths. Martin leads on adult maths and Multiply.

Jenny Gardony

PRESENTATION: Making Maths Engaging for Diverse Learner



Jenny Gardony has spent 15+ years as a mathematics educator, teacher educator, and advocate for ensuring that high level mathematics is engaging and accessible for all learners. She spent 10 years teaching secondary maths at high needs schools in and around Boston, before coming to Massachusetts Institute of Technology to lead their teacher education program. There, she also designed and led workshops for practicing teachers around Inquiry in Math, Broadening Participation in STEM, and Project Based Learning. Currently, she is the Senior Director of Curriculum and Instruction at Breakthrough Greater Boston, an organization with a dual mission of supporting underrepresented middle school students through college access and success, and creating pathways for careers in education for current college students.

SPEAKERS

Cat Eadle

PRESENTATION: An introduction to Dyscalculia and Maths Difficulties



Cat is the co-founder of The Dyscalculia Network C.I.C and co-author, along with Prof. Steve Chinn, of the innovative 'Succeed with Dyscalculia' series of books. With a career spanning 29 years in education, Cat's unwavering dedication for supporting individuals with dyscalculia and maths difficulties underscores her extensive experience. Holding a Bachelor of Education from Oxford University, Cat then became a certified specialist in mathematics learning difficulties in 2003. She initially applied her expertise in school settings but in 2017, she established 'The Little Maths Room,' where she offers tutoring services to learners of all ages with dyscalculia and other Specific Learning Difficulties (SpLDs). Cat is passionately committed to helping learners to build solid mathematical foundations and has a unique ability to nurture confidence and competence in mathematics ensuring learning is both accessible and enjoyable. Cat now spends much of her time co-running and co-developing the Dyscalculia Network including planning Dyscalculia Day and co-organising the Dyscalculia Show at the NEC, Birmingham. Cat often provides training sessions for educators and has growing experience in providing CPD for workplaces and community organisations including National Numeracy, Thames Valley Police, and West Sussex County Council. She often consults with the Dyscalculia Network's Adults with Dyscalculia Advisory Board to ensure that the voices and experiences of those with dyscalculia are heard. Cat also raises awareness of dyscalculia and maths difficulties through the Dyscalculia Network website, events, and social media. Her unique blend of commitment, profound and ever-growing expertise and understanding, along with her unrivalled enthusiasm has led to the Dyscalculia Network becoming the leading worldwide 'one stop' destination for the dyscalculia community.

SPEAKERS

Meg Jones

PRESENTATION: Supporting learners with additional needs to access a maths curriculum



Founding Director with Responsibility for Education & SEND/ALN

Senior SENDCO / ALNCO

Bettws Lifehouse

After cutting my teaching teeth in Bristol primary schools for 10 years, I moved back to my roots in Wales with my husband and three young children in 2004. Here I quickly found my vocation working with children and young people for whom mainstream school was not a happy fit, initially teaching maths and English to marginalised teenagers. It was in this work that I was fortunate enough to meet Kay Jones and, as a result, armed with little more than passion, common sense, naivety, tenacity (and of course, Maslow's Hierarchy of Needs!) Bettws Lifehouse was born in September 2007.

From its humble beginnings, we have learned and achieved more than I ever thought possible and I somehow find myself now as one of the Founding Directors of two very special schools, changing the lives of 100s of children and families in Shropshire and Powys.

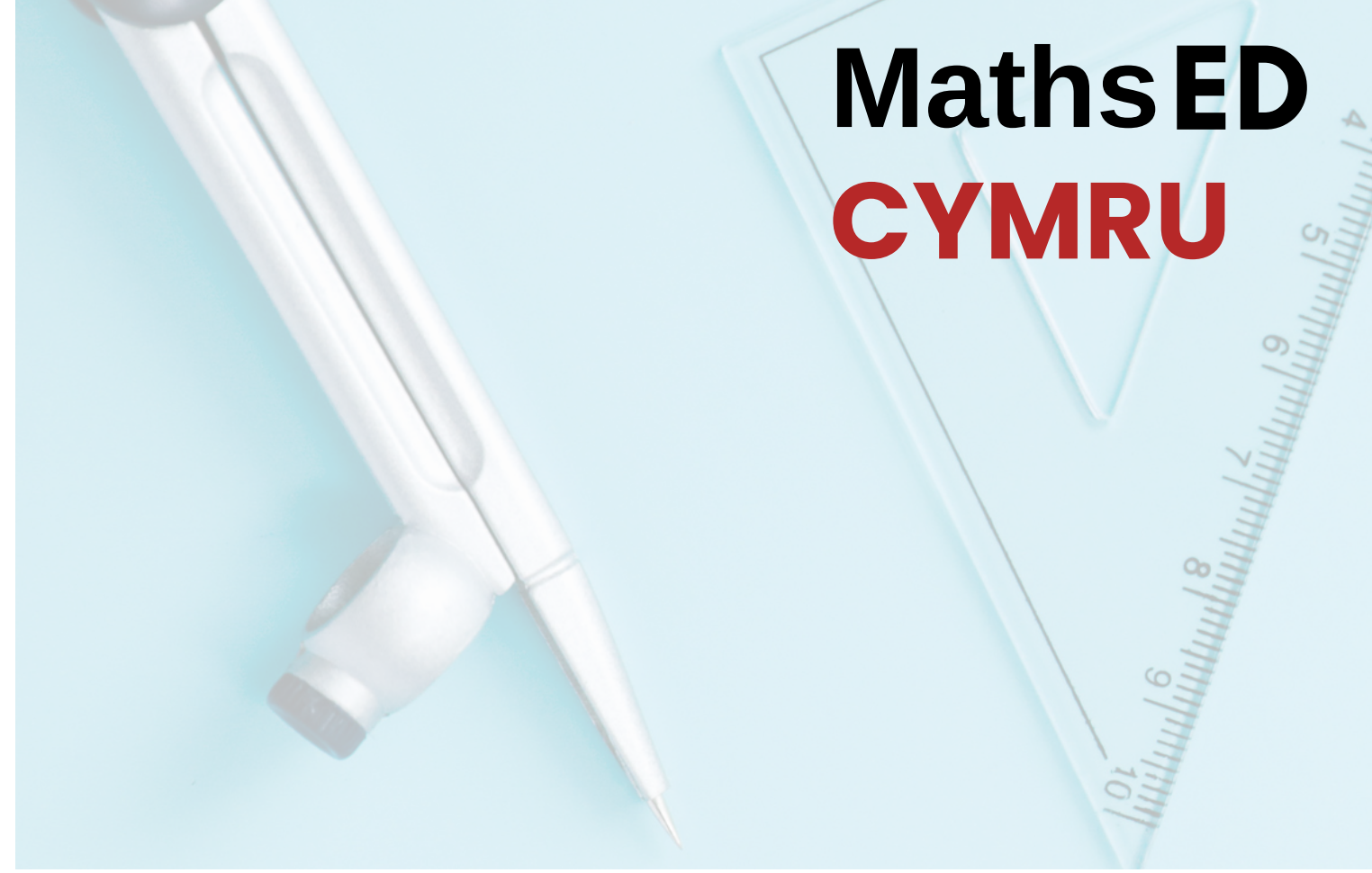
Lydia Davies

PRESENTATION: Counting on the Future: Recruiting and Retaining Teachers in Wales



Lydia Davies serves as part of the Promotion of Careers Team at the Education Workforce Council. Lydia played a pivotal role in the launch of Educators Wales in 2021. A digital platform providing career information, training opportunities and job opportunities to the education workforce in Wales and a service providing advocacy and support to aspiring and practicing education professionals. Lydia works as part of a team working towards diversifying the workforce through the recruitment of shortage subject, Welsh language and Black, Asian and Minority Ethnic practitioners.

What's on?



MathsED Cymru	09:30	10:00	10:45	11:45
Atrium	WELCOME! Refreshments and networking	KEYNOTE Mary Myatt		Refreshments and networking
F1.3/5			WORKSHOP Jo Morgan	
F1.7/9			WORKSHOP Martin Newton	
F1.13/15			PRESENTATION Jenny Gardony	
F1.14/16			WORKSHOP Rhiannon Rainbow	
Upper Atrium			WORKSHOP Cat Eadle	

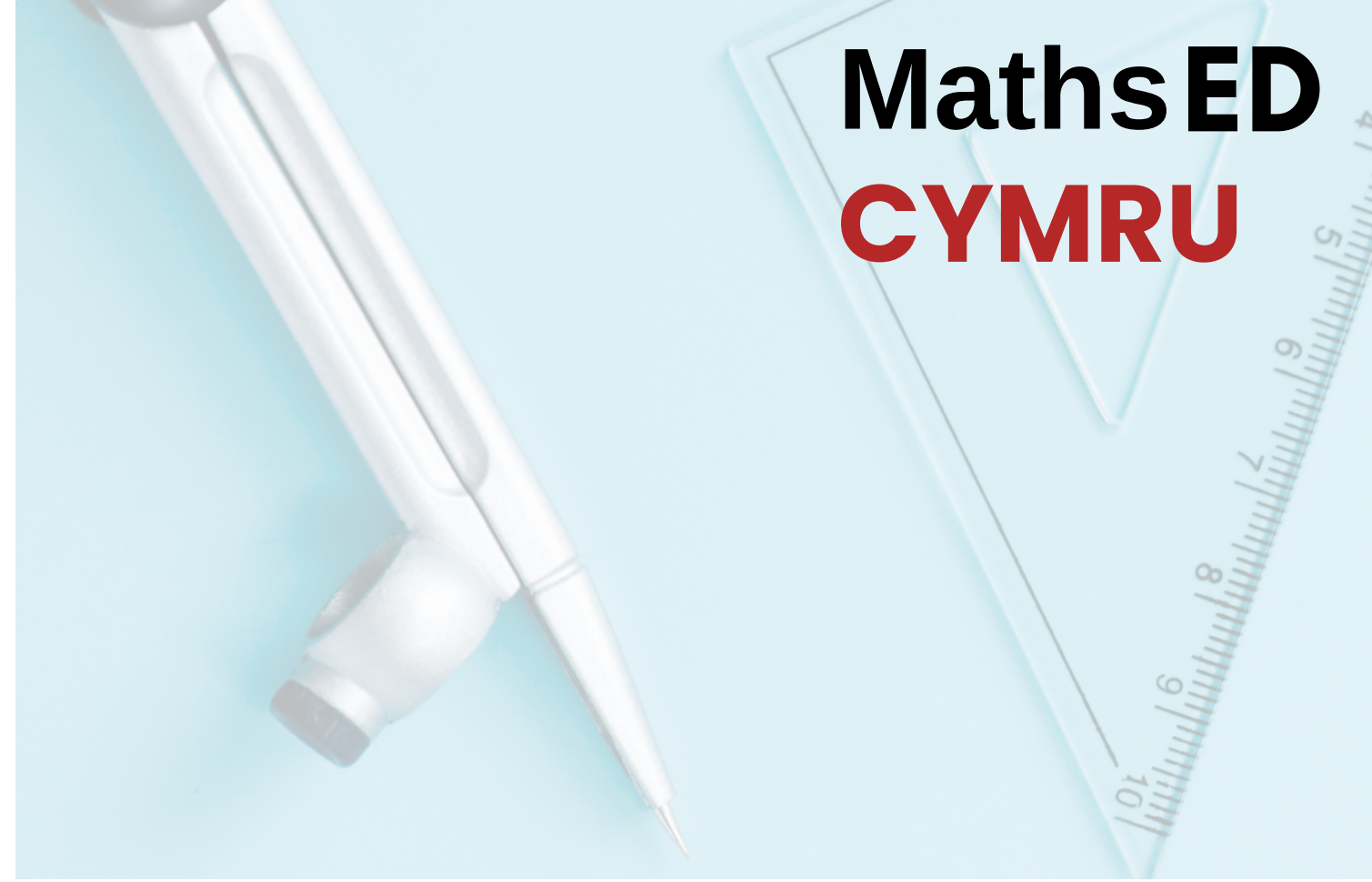
Refreshments and networking

Keynote speaker

Workshop

Presentation

What's on?



MathsED Cymru	12:00	12:40	13:40	14:30	15:30
Atrium			LUNCH		KEYNOTE Lloyd Hopkin
F1.3/5	PRESENTATION Gwenllian Jones	WORKSHOP Michael Lancaster		WORKSHOP Martin Newton	
F1.7/9	PRESENTATION Meg Jones	WORKSHOP Mel Muldowney		WORKSHOP Rob Randel	
F1.13/15	PRESENTATION Gareth Bentley	WORKSHOP Dave Tushingham		PRESENTATION Sofya Lyakhova	
F1.14/16	PRESENTATION Matthew Bracewell	WORKSHOP Elaine Sinclair		PRESENTATION Gareth Metcalfe	
Upper Atrium	PRESENTATION Lydia Davies	WORKSHOP Gerwyn Green		PRESENTATION Lydia Davies	

Refreshments
and networking

Keynote
speaker

Workshop

Presentation

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