

QAMT State Conference 2025 – Virtual Day – Fri 18 July 2025 Engaging Minds, Inspiring Learning

Time	Room 1 (Snr secondary)	Room 2 (Primary and Jnr Secondary)	Room 3 (All years)
8:15	Log in and check connections		
8:30-8:45	Welcome and housekeeping (Room 2)		
8:45 -9:30	Welcome Keynote – Laura Tuohilamoi (LINK Room 2) Title TBC		
9:30-10:25	Break out Rooms 1		
	QCAA Extended workshop (Senior Secondary)	Developing Mathematical Discussions in the classroom Margaret Marshman, University of the Sunshine Coast	7 Flexible Strategies for Number and Algebra Tierney Kennedy (recording and discussion)
10:30-11:25		Break out Rooms 2	
		Gamification and pedagogy: approaches to increase fluency in middle-school mathematics Amanda Mathewson, Boonah State High School	Engaging Games that Differentiate Kate Mason, Riverside Christian College
11:30-12pm	Break 1		
12-12:55	Break out Rooms 3		
	Huh? When did we learn that? Tom Sprenger, St Joseph's College	Maths Eyes and problem pictures. Sue Carter, Maths in Schools, University of Adelaide	Getting started with the NEW CASIO fx-1AU Graph Anthony Harradine, Prince Alfred College for Casio Education
1 – 1:55	Break out Rooms 4		
	Mind Over Maths: Why our brains trip over numbers Peter Fox, Texas Instruments	Mathematical modelling in the Australian Curriculum v9.0: Mathematics P-10 Libby Foley and Abigail Twyman, QCAA	Reframing Maths Teaching: From Best Practice to Best Decisions Allan Dougan, AAMT
2:00-2:30	Break 2		
2:30-3:25	Break out Rooms 5		
	Teaching Methods and Specialist from a Tech Active vantage point. Joe Ousby	Encouraging Teachers to Utilise the Tablet PC to Provide Feedback Through the use of Formative Assessment. Antony Dekkers, Central Queensland University	Free financial literacy courses, micro-credentials, videos and games Damian Nicholson Financial Basics Foundations
3:30-3:45	Closing and thanks (room 2)		

Presenter	Presentation Title	Presentation Abstract	Audience
Welcome Keynote – Laura Tuohilamo, University of New South Wales	TBC	TBC	All years
Amanda Mathewson, Boonah State High School	Gamification and pedagogy: approaches to increase fluency in middle-school mathematics	This workshop explores how elements of game design can be effectively integrated into mathematics instruction to enhance student engagement and fluency, and consequently, student performance. Practical examples and digital tools will be discussed that highlight how gamification can be used to incorporate a variety of pedagogical approaches/strategies.	Years 5-9
Tom Sprenger, St Joseph's College, Gregory Terrace	Huh? When did we learn that?	The syllabus documents published by the QCAA provide an outline of the knowledge and skills that students require as they enter Methods and Specialist. However, this isn't an exhaustive list. Often in our lessons, we find ourselves drawing upon a range of skills and ideas developed over Years 7 to 10 (and even earlier!). Without these skills, students' ability to engage meaningfully with the subject matter is impacted. In this session, we'll be working backwards from the content descriptors of Methods and Specialist to understand the sequence of how the skills required for Methods and Specialist are developed over Years 5 to 10	Senior secondary
Libby Foley and Abigail Twyman, PPO Mathematics QCAA	Mathematical modelling in the Australian Curriculum v9.0: Mathematics P-10	A key consideration for teachers when planning for learning and assessment in Mathematics is the importance of providing opportunities for students to engage with the mathematical processes, which includes mathematical modelling. Mathematical modelling enables students to formulate problems, connect and apply procedures, and communicate results to real-world situations. In this session, teachers will gain a deeper understanding of how mathematical modelling develops across year levels and explore practical considerations for planning and assessment.	P- Year 10
PPO Mathematics QCAA	Snr Mathematics	TBC	Specialist Mathematics and Mathematical Methods

PPO Mathematics QCAA	Snr Mathematics	TBC	General and Essential Mathematics
Antony Dekkers, Central Queensland University	Encouraging Teachers to Utilise the Tablet PC to Provide Feedback Through the use of Formative Assessment.	The teaching of mathematics today focuses on providing more meaning for students, encouraging them to think logically, developing their number sense and cultivating a true mathematical understanding. This presentation seeks to explore issues inherent in the delivery of mathematical course content using a tablet PC to aid students' understanding and the strategies that may be employed to encourage teachers to adopt the technology.	Years 10-12
Sue Carter, Maths in Schools	Maths Eyes and problem pictures.	Mathematics surrounds us in our everyday lives, but for many it can seem invisible. Viewing the world through 'Maths Eyes' provides opportunities to see – and actively look for – maths in the real world. In this session we will explore ways to assist young students to see maths all around them in fun and engaging ways whilst building confidence. Do you have maths eyes?	All years
Allan Dougan, AAMT	Reframing Maths Teaching: From Best Practice to Best Decisions	What does great maths teaching look like in your classroom, with your students, in your context? In this session, we'll unpack the Australian Association of Mathematics Teachers' new pedagogy position paper, 'Pedagogy in Mathematics'. Instead of chasing the perfect strategy, we'll focus on how to make principled, purposeful decisions about practice—drawing from a range of evidence-informed methods to meet the diverse needs of learners. Whether you're just getting started or deep into refining your craft, this session will offer practical insights and provoke thinking about what works, when, and why.	All years
Margaret Marshman, University of the Sunshine Coast	Developing Mathematical Discussions in the classroom	TBC	TBC
Damian Nicholson, Financial Basics Foundations	Free financial literacy courses, micro-credentials, videos and games	Discover free, curriculum-aligned tools from Financial Basics Foundation designed to support teachers and engage students in developing real-world financial life skills within mathematical contexts.	All years
Peter Fox, Texas Instruments RECORDING	Mind Over Maths: Why our brains trip over numbers	In this session we will explore a collection of mathematics problems that students often get wrong; some simple, some challenging, but mostly predictable. Are students simply wired to get it wrong? Join us as we explore ways to mitigate some of these errors, drawing upon examples from Year 7 through to senior mathematics exams including a range of exam tips. Please see the virtual satchel for pre-session materials.	Years 7-12

Anthony Harradine, Prince Alfred College for CASIO Education	Getting started with the NEW CASIO fx-1AU Graph	The new CASIO fx-1AU Graph (successor to the fx-CG-50 AU) will soon be available for use in schools. The new fx-1AU Graph has the same heart as the fx-CG-50 AU, but possesses a new and more intuitive user interface, providing a simpler flow to the output you require. In this session the new interface will be explained and demonstrated.	Years 10-12
Kate Mason, Riverside Christian College	Engaging Games that Differentiate	This workshop will provide primary teachers with a variety of games, strategies and learning experiences that engage the student in the mathematical learning process. These games are easily differentiated to suit a range of abilities. These activities can be easily implemented in the primary classroom and instil in students a love of learning maths!	P-Year 2
Tierney Kennedy, Kennedy Press RECORDING	7 Flexible Strategies for Number and Algebra	Flexible strategies allow teachers to connect multiple content areas through a single procedure. In this series of 7 short videos, teachers will be introduced to 7 strategies that Tierney uses to teach and connect all content aspects from P-9 plus essential maths. They include: number line, array model, relationship table, post-it note algebra, place value chart (especially useful for measurement conversions), partition it and a horizontal strategy for operations and algebra. The videos range in length from 3 minutes to 15 minutes, and each is useful for multiple content areas.	P- Year 6
Joe Ousby	Teaching Methods and Specialist from a Tech Active vantage point.	The focus in this session is on Tech Active approaches to teaching Trigonometry, Probability, Calculus and Functions. And what becomes possible in understanding when looking through the Tech Active lens.	Years 10-12