Time	Room 1 (Sn	r 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 1A)					
8:45 -9:30	Welcome Keynote – Dr Laura Tuohilamoi - Popularising Mathematics (Room 1A)					
9:30-10:25	Room 1A	Room 1B	Room 2	Room 3		
	Preparing assessment	Preparing assessment	Developing Mathematical Discussions in the	7 Flexible Strategies for Number and Algebra		
	for the 2025 syllabus	for the 2025 syllabus	classroom	Tierney Kennedy (recording and discussion)		
	in Mathematical	in General	Margaret Marshman, University of the Sunshine			
	Methods and	Mathematics and	Coast			
10:30-11:25	Specialist	Essential Mathematics	Room 2	Room 3		
	Mathematics –	– Robyn McNamara,	Gamification and pedagogy: approaches to	Engaging Games that Differentiate		
	Catherine Smith,	Principal Education	increase fluency in middle-school mathematics	Kate Mason, Riverside Christian College		
	Principal Education	Officer – Mathematics,				
	Officer –	QCAA	Amanda Mathewson, Boonah State High School			
	Mathematics, QCAA					
11:30-12pm	Break 1					
12-12:55	Room 1 A		Room 2	Room 3		
	Teaching Methods and Specialist from a Tech		Maths Eyes and problem pictures.	Getting started with the NEW CASIO fx-1AU		
		tage point.	Sue Carter, Maths in Schools, University of	Graph		
	Joe Ousby		Adelaide	Anthony Harradine, Prince Alfred College		
4 4 5 5				for Casio Education		
1 – 1:55	Room 1 A		Room 2	Room 3		
	Huh? When did we learn that?		Mathematical modelling in the Australian	Reframing Maths Teaching: From Best Practice to		
	Tom Sprenger, St Joseph's College		Curriculum v9.0: Mathematics P-10	Best Decisions		
			Libby Foley and Abigail Twyman, QCAA	Allan Dougan, AAMT (recording and discussion)		
2:00-2:30	Break 2					
2:30-3:25	Room 1 A		Room 2	Room 3		
	Mind Over Maths: Why our brains trip over		Encouraging Teachers to Utilise the Tablet PC to	Free financial literacy courses, micro-credentials,		
	numbers		Provide Feedback Through the use of Formative	videos and games		
	Peter Fox, Tex	as Instruments	Assessment.	Damian Nicholson		
			Antony Dekkers, Central Queensland University	Financial Basics Foundations		
3:30-3:45			Closing and thanks (Room 1A)			

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

Draft Program – accurate as of 04/6/25

Presenter	Presentation Title	Presentation Abstract	Audience
Welcome Keynote – Dr Laura Tuohilamoi, University of New South Wales	Popularising Mathematics	Maths remains a critical and largely emphasised skill, but the practical applications to make it work for today's students (and teachers) are scarce. We are needed! In this lecture, you'll get tools to give access to mathematics for all and learn about long term engagement and the role of interest	All years
(recording)		development. Together we can determine what the future of mathematics education looks like!	
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
Catherine Smith, Principal Education Officer – Mathematics, QCAA	Preparing assessment for the 2025 syllabus in Mathematical Methods and Specialist Mathematics	The session will focus on creating internal assessments for the 2025 syllabus. Considerations: specifications and conditions, adapting an IA from the 2019 syllabus, movement of subject matter, complexity of questions, technology access in examinations and resources available, opportunities for writing an IA1 using Unit 4 subject matter.	Specialist Mathematics and Mathematical Methods

Draft Program – accurate as of 04/6/25

Robyn McNamara,	Preparing assessment for the 2025 syllabus in	The session will focus on creating internal assessments for the 2025 syllabus.	General and
Principal Education	General Mathematics and Essential	Considerations: specifications and conditions, adapting an IA from the 2019	Essential
Officer –	Mathematics	syllabus, movement of subject matter, complexity of questions,	Mathematics
Mathematics, QCAA		opportunities for writing an General Mathematics IA1 using Unit 4 subject	
		matter.	
Antony Dekkers,	Encouraging Teachers to Utilise the Tablet PC to	The teaching of mathematics today focuses on providing more meaning for	Years 10-12
Central Queensland	Provide Feedback Through the use of Formative	students, encouraging them to think logically, developing their number	
University	Assessment.	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.	
Sue Carter, Maths in	Maths Eyes and problem pictures.	Mathematics surrounds us in our everyday lives, but for many it can seem	All years
Schools		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?	
Allan Dougan, AAMT	Reframing Maths Teaching: From Best Practice	What does great maths teaching look like in your classroom, with your	All years
(recording)	to Best Decisions	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.	
Margaret Marshman,	Developing Mathematical Discussions in the	Classroom discussions play a vital role in helping students develop the	ТВС
University of the	classroom	mathematical thinking and problem-solving skills necessary to develop the	
Sunshine Coast		mathematical processes outlined in the Australian Curriculum: Mathematics.	
		However, starting and managing these discussions can sometimes be	
		difficult. In this workshop, we'll explore some practical strategies for leading	
		meaningful mathematical conversations that bring student learning to the	
		forefront.	
Damian Nicholson,	Free financial literacy courses, micro-	Discover free, curriculum-aligned tools from Financial Basics Foundation	All years
Financial Basics	credentials, videos and games	designed to support teachers and engage students in developing real-world	
Foundations		financial life skills within mathematical contexts.	

Peter Fox, Texas	Mind Over Maths: Why our brains trip over	In this session we will explore a collection of mathematics problems that	Years 7-12
Instruments	numbers	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.	
Anthony Harradine,	Getting started with the NEW CASIO fx-1AU	The new CASIO fx-1AU Graph (successor to the fx-CG-50 AU) will soon be	Years 10-12
Prince Alfred College	Graph	available for use in schools. The new fx-1AU Graph has the same heart as	
for CASIO Education		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.	
Kate Mason, Riverside	Engaging Games that Differentiate	This workshop will provide primary teachers with a variety of games,	P-Year 2
Christian College		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!	
Tierney Kennedy,	7 Flexible Strategies for Number and Algebra	Flexible strategies allow teachers to connect multiple content areas through	P- Year 6
Kennedy Press		a single procedure. In this series of 7 short videos, teachers will be	
(recording)		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.	
Joe Ousby	Teaching Methods and Specialist from a Tech	The focus in this session is on Tech Active approaches to teaching	Years 10-12
	Active vantage point.	Trigonometry, Probability, Calculus and Functions. And what becomes	
		possible in understanding when looking through the Tech Active lens.	