



QAMT SENIOR MATHEMATICS DAY 2025

Thursday 27 November, QUT Gardens Point, S Block - Draft program



Queensland
Association of
Mathematics
Teachers

Time				
8:30-9:10	Registration – Venue: QUT Gardens Point, S Block, 4th Floor foyer – Grab a coffee from the Humanity Coffee café (shipping container)			
9:10 – 9:30	Welcome – Monique Russell, QAMT President (Lecture theatre s403)			
9:30-10:25	All Developing Mathematical Discussions in the classroom Margaret Marshman, University of the Sunshine Coast (Room s407/s413)	General Mathematics Teaching Annuities in General Mathematics Corrie Wheare, MacGregor SHS <i>Building content knowledge and pedagogies</i> (Room s405)	Mathematical Methods/Specialist Mathematics QCAA Mathematical Methods and Specialist Mathematics (Room s409) Bring your IA3 drafts/ideas to work on.	
10:30:11:25		General Mathematics Reviewing Selected 2024 QCAA General Mathematics Exam Questions Peter Flynn, Texas Instruments (Room s405)		
11:30-12:00	Lunch and networking (Z block)			
12:00 – 12:55	All PSMT Discussion group <i>How you choose, develop and present your Essential/General Mathematics PSMT</i> (Room s404)	General and Essential QCAA – General and Essential and Numeracy (Room s409) Bring your IA3 drafts/ideas to work on.	Mathematical Methods Reviewing Selected 2024 QCAA MM and SM Paper 2 Exam Questions - Peter Flynn Texas Instruments (Room s405)	Specialist Mathematics Skills and thinking for Specialist and Mathematical Methods Tech-Active Papers - Matthew Overland, Brisbane State High School & Joe Ousby (Room s407)
1:00-1:55	Literacy in Mathematics - Esther Hohenheim, Assumption College, Warwick (Room s404)		Mathematical Methods From Discrete to Continuous: Making Probability Click for Students Tom Sprenger, St Joseph’s College (Gergory Terrace)	Specialist Mathematics Using drones for 3D vectors - <i>TBC</i> <i>Building content knowledge and pedagogies</i> (Room s407)

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2:00	Grab afternoon tea and join us for the 2025 QAMT AGM (Foyer)			
2:05-2:30	QAMT Annual General Meeting (Lecture theatre s403)			

Abstracts

Title	Abstract	Target Subject Area/s
Skills and thinking for Specialist and Mathematical Methods Tech-Active Papers	The workshop will give an overview of the past 5 years of external exams, mock papers and marking guides for specialist mathematics and mathematical methods. The intention is to highlight the different calculator skills and numerical thinking that can be applied for tech-active questions.	Specialist and Mathematical Methods
Teaching Annuities in General Mathematics	Annuities is often found to be the most complex topic for students and teachers in General Mathematics. This presentation aims to simplify the concepts visually, for students to understand, and then be able to access complex problems with combinations of annuities.	General Mathematics
Developing Mathematical Discussions in the classroom	Classroom discussions play a vital role in helping students develop the mathematical thinking and problem-solving skills necessary to develop the 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.	All

From Discrete to Continuous: Making Probability Click for Students	Come along for a discussion-based session exploring strategies for teaching continuous and discrete random variables. I'll share practical approaches and resources that have helped students build conceptual understanding and unpack abstract, complex ideas. Whether you're introducing these concepts for the first time or refining your existing methods, this workshop is designed to get you thinking about your practice.	Mathematical Methods
Using drones for 3D vectors	TBC	Specialist Mathematics
Literacy in Mathematics	TBC	All
QCAA Session – Essential and General Mathematics	• IA3 writing/endorsement – Bring along your ideas and assessments • Unpacking IA1 - new ISMG and guidance on IA1 marking. • Hear about new support materials (soon to be published).	Essential and General Mathematics
QCAA Session –Mathematical Methods and Specialist Mathematics	• IA3 writing/endorsement – Bring along your ideas and assessments • Unpacking IA1 - new ISMG and guidance on IA1 marking. • Hear about new support materials (soon to be published).	Mathematical Methods and Specialist Mathematics
Reviewing Selected 2024 QCAA MM and SM Paper 2 Exam Questions Peter Flynn, Texas Instruments	In this session, we will explore how selected questions from these examinations can be answered accurately and efficiently with TI-Nspire CX II. As part of our discussion, we will consider how these examination questions might positively inform future teaching and learning.	Mathematical Methods and Specialist Mathematics
Reviewing Selected 2024 QCAA General Mathematics Exam Questions Peter Flynn, Texas Instruments	In this session, we will explore how selected questions from these examinations can be answered accurately and efficiently with TI-Nspire CX II. As part of our discussion, we will consider how these examination	General Mathematics

	questions might positively inform future teaching and learning.	
QCAA Session – Online Numeracy Test	TBC	All
PSMT Discussion group	Bring along your ideas on how you choose, develop and present your Essential/General Mathematics PSMT to share with others.	Essential/General Mathematics