



THE MATHEMATICAL  
ASSOCIATION OF VICTORIA



# 2023 Primary Mathematics Education Conference

Join us for  
either or  
both days

The Mathematical Association of Victoria (MAV) in collaboration with the Melbourne Graduate School of Education's Mathematics, Science, and Technology Education Group (MSTEG) present a conference focusing on primary school mathematics education.

## DEVELOPING A BALANCED AND CHALLENGING MATHEMATICS PROGRAM

Balanced programs use a mix of pedagogical strategies, including student centred approaches, to produce opportunities for high engagement and growth. Balanced programs use teacher directed strategies such as setting clear learning goals, summarising previous learning, asking questions to check student understanding, and enabling and extending prompts to challenge and support all students. Research also shows that student-centred strategies, such as effective differentiation and enabling collaboration, supports students to solve more complex problems and positively impacts motivation (OECD, 2016). Varied lessons structures should be aligned to the mathematics content and proficiencies.

Challenging programs aim to prioritise cognitive activation strategies, such as problem solving, reflection and guided discovery, where students are challenged to summarise, question, clarify, predict and justify their thinking and solutions, and where students are encouraged to focus on the methods used rather than seeking answers. Is your program balanced and challenging for all students? Join us to explore, plan and understand better how we support the success and enjoyment of mathematics for all students.

### Day 1: For leaders

Thursday 15 June, 2023

For current and emerging mathematics and numeracy leaders, school leaders and system leaders in primary schools.

#### Themes include:

- Understanding and exploring what leaders need to know to lead and implement successful mathematics programs.
- Exploring aspects of balanced and challenging programs, to deepen understanding of what works.
- Leading improvement and change to develop teacher capability and confidence.
- Developing myself as a mathematics leader.

### Day 2: For teachers and educators

Friday 16 June, 2023

For all primary teachers to build confidence and develop professional ability as a mathematics educator in a supportive, hands-on environment.

#### Themes include:

- Understanding and exploring what teachers need to know to create successful mathematics experiences.
- Exploring balanced and challenging teaching strategies while developing content and pedagogical content knowledge.
- Using formative and summative assessment to understand the learner's progression.
- Developing myself as a professional educator.

<https://www.mav.vic.edu.au/Conference/Primary-Mathematics-Conference>

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# Day 1: For Leaders

## Thursday 15 June, 2023

Join us to explore mathematics leadership.  
Sessions will provide practical advice to lead change in your own school context.

### What primary leaders said about the primary conference.....

*'My workshops were incredibly practical (on both days). I really enjoyed having the ability to discuss the topic with table groups of peers, complete activities and walk around and practice what we were preaching in the sessions.'*

Session	Presenters	Title	Room
Welcome and Keynote 1 9am–10.15am	Leonie Anstey	A: Mathematics leadership that enables progress: Knowing what is important and what works!  Keynote sponsor:   Education and Training	Q230
Break: 10.15am–10.45am			
Workshop rotation 1 10.50am–11.50am	Angela Rogers	B1: Targeted teaching - The what and how	Q217
	Natasha Ziebell and Catherine Pearn	B2: Lessons from learning+: An online mathematics tutoring program	Q416
	Eamon Light	B3: Keeping the balance: Picking the right lesson type for the right context	Q417
	Catherine Epstein Rogers and Isabella Kottek	B4: Diagnosing and supporting, students with dyscalculia	Q419
	Amy Somers	B5: The balancing act of achieving whole school numeracy improvement	Q420
	Pauline Thompson	B6: Leadership to enhance learning	Q421
Workshop rotation 2 11.55am–12.55pm	Wee Tiong Seah	C1: From values-based mathematics leadership to values-led mathematics leader-ship	Q217
	Kate Copping and Carmel Mesiti	C2: Building thinking classrooms: Using Liljedahl's strategies for a whole school approach	Q416
	Jane Hubbard and Hannah Marino	C3: Planning for differentiated instruction in mathematics	Q417
	Ramya Deepak Kumar and Jennifer Bowden	C4: Numeracy and Leadership: A transformative story of learning, leading, and growing along with our school	Q419
	Michael Nelson	C5: Effectively teaching multiplication across the school	Q420
	Andrew Lorimer-Derham	C6: Thriving mathematicians in the age of AI	Q421
Lunch and networking: 12.55pm–1.45pm			
Workshop rotation 3 1.45pm–2.45pm	Max Stephens and Danijela Draskovic	D1: School leaders promoting coding in mathematics and STEM in the primary years	Q217
	Sara Gaul-McKee	D2: Leading improvement and change	Q416
	Paul Staniscia	D3: Collaborative planning	Q417
	Thomas Moore	D4: Developing productive pedagogical relationships	Q419
	Julia Hill	D5: Recognising and supporting mathematics teacher wellbeing	Q420
	Angela Rogers	D6: How can the 'Science of Maths' movement help guide our practice?	Q421
Keynote 2 2.50pm–3.50pm	Kate Copping	Primary mathematics leaders: Investigating diverse perceptions of the role  Keynote sponsor: 	Q230
F: Happy hour: 3.50pm – 4.30pm Join us for a chat, to network and debrief. Bring your questions.			

- In collaboration with the Melbourne Graduate School of Education, the University of Melbourne
- Intentionally designed program of high-quality presenters
- Learn from leaders with practical and educational research experience.

For a full program including session abstracts and speaker profiles visit the conference page:  
[www.mav.vic.edu.au/Conference/Primary-Mathematics-Conference](http://www.mav.vic.edu.au/Conference/Primary-Mathematics-Conference)

## Day 2: For teachers and educators

### Friday 16 June, 2023

Do you find teaching mathematics a challenge? Are you looking to find some great new ideas to engage students? Join us to explore mathematics education, teaching and learning, with a focus on improving your mathematics content and content pedagogical knowledge.

#### What educators said about the teachers day....

*'The conference provided an excellent forum to learn about and discuss current research-based information. It provided a range of workshops led by knowledgeable and approachable presenters. I was able to walk away excited about sharing some new ideas and resources with colleagues.'*

Session	Presenters	Title	Room
Welcome and Keynote 1 9am–10.15am	Angela Rogers	A: Assessment: The good, the bad, and the ugly <i>Keynote sponsor:</i>   Education and Training	Q230
Break: 10.15am–10.45am			
Workshop rotation 1 10.50am–11.50am	Kaye Stacey	B1: Thinking deeply for success in mathematics	Q217
	Nick Devereux and Sophie Stewart	B2: Shoot and score	Q416
	Catherine Epstein Rogers	B3: 24 square counters	Q417
	Roger Wander	B4: Half (or twice) as big: Exploring geometric meaning to extend creative thinking	Q419
	Hannah Martin and Jane Hubbard	B5: Student goals based on the mathematics online interview (MOI)	Q420
	Di Liddell	B6: Exploring the anticipate phase of the Launch, Explore, Summarise instructional model	Q421
Workshop rotation 2 11.55am–12.55pm	Sara Gaul-McKee	C1: Assessment practices to support student progression	Q217
	Max Stephens and Danijela Draskovic	C2: Promoting coding in mathematics and STEM in the primary years	Q416
	Catherine Pearn	C3: Identifying and addressing common fraction misconceptions	Q417
	Michael Minas	C4: Differentiation with open-ended tasks	Q419
	Michael Nelson	C5: Teach multiplication strategies with multiplicative thinking	Q420
	Renee Ladner	C6: Challenge connects students to the world	Q421
Lunch and networking: 12.55pm–1.45pm			
Workshop rotation 3 1.45pm–2.45pm	Justine Sakurai	D1: Using everyday technologies to teach mathematics	Q217
	Catherine Pearn	D2: Developing relational thinking rather than focusing on rules and procedures	Q416
	Paul Staniscia	D3: Problem solving – one piece of a much larger puzzle	Q417
	Rachel Pollitt and Amanda Merrifield	D4: Play-based mathematics learning - pedagogy and practice	Q419
	Veysel Akçakin and Wee Tiong Seah	D5: The transition from mathematical modelling to STEM: Lighthouse Activity	Q420
Keynote 2 2.50pm–3.50pm	Carmel Mesiti	E1: Teachers talking about their classrooms: Learning from the professional lexicons of mathematics teachers <i>Keynote sponsor:</i> 	Q230
F: Happy hour: 3.50pm – 4.30pm Join us for a chat, to network and debrief. Bring your questions.			

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A single teaching strategy will not work for all mathematics problems .... teaching complex mathematics skills might require different instructional strategies than those used to teach basic mathematics skills.... teachers need a diverse set of tools to teach the breadth of their mathematics curriculum and to help students. (OECD, 2016)

## 2023 Primary Mathematics Education Conference

### Dates

Thursday 15 June 2023

For leaders

Friday 16 June 2023

For teachers and educators

### Venue

Melbourne Graduate School of Education,  
University of Melbourne

### Time

9am–3.50pm, followed by happy hour.

### Contact

For information about bookings email Jacqui Diamond,  
jdiamond@mav.vic.edu.au.

**Registrations close on Friday 6 June, 2023.**

**MAV Member registration (20% discount): \$260 per day**

**Non-member: \$325 per day**

### Special MAV membership offer

To receive the member rate, you must first be a MAV member. If you are not a MAV member and wish to attend this conference, you can join the MAV (small school discount also available). Alternatively, join as an individual member.

Contact [mgreen@mav.vic.edu.au](mailto:mgreen@mav.vic.edu.au) to redeem this offer prior to completing your conference registration.

### REGISTER NOW

Numbers are strictly limited, book at [www.mav.vic.edu.au/Conference/Primary-Mathematics-Conference](http://www.mav.vic.edu.au/Conference/Primary-Mathematics-Conference) or the MAV events page: [www.mav.vic.edu.au/Events](http://www.mav.vic.edu.au/Events) and select the day(s) that you wish to attend.

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