



# MATHEMATICS *Pathways for* SUCCESS

# QAMT State Conference 2021

**Saturday 26th and Sunday 27th June Southport State High School**

*Love Mathematics? Love Teaching? Love Research? So do we!*

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face to face  
and virtual  
conference  
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all!

## Keynote Speakers

Opening Keynote  
Professor Merrilyn Goos  
University of Limerick



Bill Simpson Plenary  
Closing Address  
Joel Speranza



Michael Minas has worked in education for over 20 years. His areas of interest include problem solving and student engagement. In 2018, Michael's ability to shape learning well beyond his classroom was recognised when he won a CHOOSE MATHS Teaching Excellence Award. He presents at conferences around Australia and provides consultancy services to the Mathematical Association of Victoria and PD Online.

Michael is the current editor of Prime Number and has written articles for a range of other local and international publications. He is also a contributing author for the Maths300 website. Michael is an avid basketball fan, whose interest in dysfunctional organisations led to his first book- The Curse: The Colorful & Chaotic History of the LA Clippers.  
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## Meet your presenter

### Michael Minas

#### Differentiation Through Problem Solving

One of the greatest challenges confronting educators is the wide range of student abilities in mathematics. In this workshop, we explore how to plan and present problem-solving tasks that will challenge and engage all students, from the most reluctant to those who are extremely confident. A range of strategies for creating your own enabling and extending prompts, thus ensuring the appropriate level of cognitive challenge for each student, will be explored. Each participant will leave with a clear understanding of how to plan and structure lessons using challenging problem-solving tasks that they will be able to incorporate into their teaching on day one of term 3.

#### Reasoning: More Than "Can You Explain Your Thinking?"

This hands-on workshop provides an in-depth look at all of the different aspects of the Reasoning proficiency. We explore how you can get your students thinking and working like mathematicians by taking your staff through a series of engaging warm-up activities and lesson ideas. This workshop also focusses on the crucial role that questioning plays in developing students' capacity to reason. Teachers will leave with a range of practical ideas, as well as an increased understanding of how other tasks can be modified to ensure that your students are proving, comparing, contrasting, explaining, justifying and analysing on a regular basis.

**Registrations opening soon!**  
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