

QAMT State **Conference 2021**

Saturday 26th and Sunday 27th June Southport State High School Love Mathematics? Love Teaching? Love Research? So do we!

Sponsors



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oin us for this face to face and virtual conference that has it all!

Keynote Speakers

Opening Keynote Professor Merrilyn Goos University of Limerick





Bill Simpson Plenary Closing Address Joel Speranza



Audience

- Senior Secondary ۲

Presentation mode



Registrations open now! Visit https://qamt.qld.edu.au/

Meet your presenter

Jim Lowe

Jim was a Maths head of Department in the state system for many years. He spent six years working with the team from the YuMi Deadly Centre at QUTuntil that centre closed in 2019. Semi-retired due to Covid-19 in 2020, he is currently working part-time in the School of Education at The University of Queensland.

(1) Thinking and Learning

Regardless of the current available technology having students learn basic number facts is still important - maybe even more so. Drill and practice routines do not provide encouragement for students nor are they necessarily beneficial. This session will provide participants with a range of activities to engage students in thinking and reasoning while developing mental arithmetic skills in friendly competition with classmates.

Created with teachers in mind these activities can be customised to suit the level of students. All files necessary to generate your own copies of the activities will be made available during the session.

(2) Pathways to Polygons Does your school have an enrollment boundary? How was it determined? Was it an arbitrary line drawn on a map or did it result from the application of mathematics to determine fair and equitable boundaries between all neighbouring schools?

This workshop will examine this vary practical application of geometry and algebra to construct these boundaries. Other applications of this technique include calculating weighted averages of rainfall data, patterns of plant growth and even solving crimes. This hands-on workshop will utilise both traditional geometric construction and progress to the use of a dynamic geometry systems for the real-life examples.