Sustaining Excellence in YuMi Deadly Maths

YDC Sharing Summit Program

29–30 October 2018

QUT YuMi Deadly Centre
School of Teacher Education & Leadership
Faculty of Education
Queensland University of Technology
Victoria Park Road, Kelvin Grove
Brisbane
Welcome & Keynotes

Professor Tom Cooper
YuMi Deadly Centre Director

I am very pleased to welcome you to the eighth annual YDC Sharing Summit and to see the wonderful range of presentations in this year’s program – 25 in all. This is a testament to the fine work being done in YDM schools across Australia.

Keynote speakers Mundanara Bayles and Scott Gorringle are sure to inspire us with their philosophies and approaches for enabling all Australians to work together. I would like to acknowledge and thank both Mundanara and Scott for sharing their experience and expertise with us.

The many presentations from primary, secondary and special schools offer a rich array of choice for all. Responding to this year’s theme, several long-time YDM schools will explore how to sustain excellence in YuMi Deadly Maths, including two Townsville schools, a special school from Brisbane, and YDM Centre for Excellence schools Rockville State School from Toowoomba and Victoria Park State School from Mackay.

It’s a pleasure to welcome back Annandale State School from Townsville, now also a YDM Centre for Excellence, to present for their sixth year in a row. I am also delighted to welcome 2017 Indigenous STEM award-winning teacher Camila Zuniga-Greve, who participated in PRIME Futures while at Heatley State School in Townsville. Although Camila has now moved to a new school, she still uses the YDM approach in her teaching and will share this with us in her session.

This year for the first time we will be joined by schools from our PRIME Futures clusters in Western Australia, with five presenters from four schools making the long journey to be with us. I’m sure we will benefit from hearing their perspectives on implementing YDM in their unique contexts and I thank them for travelling all this way.

Several other presenters have also travelled long distances to be here, including from Adelaide, Far North Queensland, Central Queensland, and Melbourne – the latter being our former YDC colleague, Associate Professor Gillian Kidman from Monash University, who will reflect on the skills learnt through YuMi Deadly Maths from the perspective of an educator.

And finally, welcome to the local Brisbane schools who are joining us this year. We were particularly pleased to hear recently that Loganlea State High School from the south side of Brisbane was the third most-improved Queensland secondary school in NAPLAN this year, with YuMi Deadly Maths playing a role in this improvement.

As many of you know, YDC relies on funding to deliver YDM projects. I would like to acknowledge and thank the schools and funding bodies that have formed partnerships with YDC to undertake vital maths projects in schools. Without these collaborations, the centre would not be able to continue working with schools to improve the teaching and learning of mathematics.

A warm welcome to all and I invite you now to be involved in, and inspired by, the 2018 YDC Sharing Summit.

Tom Cooper

Uncle Sam Watson
Welcome to Country

We are honoured to have Uncle Sam Watson join us this year to conduct the Welcome to Country.

Sam is a senior member of the Brisbane Indigenous community. He has blood ties to the Wanjiburrah people of the lands around Beenleigh and Mt Jamborine. The Wanjiburrah people are the lawful owners of the Yugbuny language. He also has close family connections to the Jaraga, Yugarra and Yugarapull peoples, who are the traditional owners of the country on which Brisbane was built. He has family and bloodline connections to the Birri Gubba people, the Kalkadoon nation and the Wik/Mapoon peoples.

Sam has been politically active since his high school days in the 1960s. He was a foundation member of the first wave of Indigenous survival services in Brisbane such as the legal service, the medical service, the housing service and other programs and agencies across the state.

In the 1980s he wrote and published his first award-winning novel (The Kadaitcha Sung) which was published by Penguin Books. He has also written and co-produced two major plays which were presented to critical acclaim by Kooomba Jadarra theatre group and La Boite Theatre. The first play, titled The Mack, was produced in 1997. The second play, Oodgeroo – Bloodline to Country, was commissioned by the Queensland Government as part of the 150th anniversary of the state and produced in 2009.

In 1995 he wrote and co-produced his first film (Black Man Down) as one of the ground-breaking Sand to Celluloid Indigenous short films featured in festivals across the global network and screened at the Cannes Film Festival in 1997.

Sam was also a co-founder of the Australian Indigenous Peoples Political Party in 1993, ran for public office at local, state and federal elections, and advocated for a treaty with the British Crown.

Across these past five decades Sam Watson has served on many local, state and federal committees, and has worked on death in custody cases and with Stolen Generation peoples. He is a committed advocate for his people and often speaks out on major issues of the day.

In his artistic work, Sam explores traditional Indigenous cultural themes and tensions. He asserts his own identity as a traditional owner and custodian of the lands across south-east Queensland and he celebrates his close affinity and bond with the spiritual strengths of country.

Mundanara Bayles
Managing Director, BlackCard

Mundanara’s cultural heritage is connected to the Wonnaruwa and Bunjalung people on her mother’s side and the Birri-Gubba and Gungalu on her father’s side. Mundanara grew up in Redfern, New South Wales, with her eight sisters, and moved to her father’s country in the early 90s. Coming from a family that has been active in the Aboriginal movement since the 60s and 70s she continues to follow their example. As a proud advocate for her people, she follows in her father’s footsteps and aims to make a positive contribution.
Mundanara has more than 18 years’ experience working for both Indigenous and non-Indigenous organisations in New South Wales and Queensland. She is an Associate Fellow of the Higher Education Academy, and has formal qualifications in the disciplines of media, business, assessment and training. She is currently a board member at The Aboriginal and Islander Independent Community School (also known as The Murri School) in Brisbane, and serves on several other committees and boards.

Mundanara is the Managing Director and co-founder of The Australian BlackCard Pty Ltd (BlackCard), which is a 100% Aboriginal owned and operated business certified with Supply Nation. Mundanara co-founded BlackCard with Dr Lilla Watson, who is a respected Aboriginal elder, artist, educator and long-time course developer. BlackCard is a specialist consultancy providing cultural capability training and consultancy services to enable people and organisations to work effectively with members of the Aboriginal community. BlackCard’s purpose is working with people, not for people, with the genius of Aboriginal knowledge.

Mundanara’s work is agile, partnership-based, and crosses multiple organisational borders. She brings people along with her through her inclusive and collaborative approach.

Keynote presentation: Mundanara Bayles 
Developing cultural competence

Mundanara’s philosophy is to ‘live and learn with our neighbours’. Her acclaimed educational workshops are informed and guided by Aboriginal Terms of Reference which include law, philosophy, ethics and governance, and are based on all the knowledge that Aboriginal people have accumulated, developed and practised over the many thousands of years they have lived on this Great South Island now known as Australia.

This session will help all of us to work with Aboriginal people in a more meaningful way, by increasing our knowledge and understanding of Aboriginal culture, history, and Aboriginal English – to improve communication between Aboriginal and non-Aboriginal people.

Scott Gorringe
Director, Murrimatters Consulting

Scott is a Mithaka man from far western Queensland. He believes the challenge is to reconnect with self, others and the environment. Scott has a Masters from The University of Queensland, and studied at The University of British Columbia in Canada. He is Director of Murrimatters Consulting, Fellow of the Australian Rural Leadership Foundation, Chief Investigator on an Australian Research Council grant at ANU and currently leads the Milparanga Leadership Program for the Australian Rural Leadership Foundation.

Scott’s education has been an exciting balance of on-country practices, state and private schooling, plus university – both overseas and in Australia. In 2006 Scott, with his best mate David Spillman, co-developed a facilitation process called Engoori that assists teams and organisations to address complex challenges. Scott’s company, Murrimatters, has delivered this process to a range of organisations across Australia and internationally for more than ten years.

Scott has extensive knowledge and understanding of engagement across the various cultural groups within Australia and his passion lies in bringing forth people’s strengths to assist them to create and lead change.

Keynote presentation: Scott Gorringe
Challenging the deficit discourse across the Indigenous landscape

The complexity of challenging a dominant Australian discourse of deficit across the Indigenous landscape requires a process that encourages inquisitiveness, reflectiveness, robustness and courage. The Indigenous landscape carries with it such political and racialised assumptions that it makes our ‘streams of knowing’ run deep with murky waters. The complexities across this landscape in health and education, for example, are most often limited by a negative framing, of a ‘knowing’ that constrains thinking and conversation, thus preventing different and possibly more effective initiatives to emerge and be implemented.

Successive Australian Governments and most critically Indigenous peoples themselves repeat the same patterns of thinking driven by the same disabling assumptions which lead to the same approaches we have experienced in the past, with limited success. The Closing the Gap reports 2016-17-18 are indicative of this problem.

‘Circles’ and the assumptions of enacting them can provide a powerful way forward in addressing the challenge of rejecting deficit discourse in the Indigenous space. Circles can enable the conversation to think differently about these complex challenges and move toward initiating a conversation free of deficit discourse and negative framing of Aboriginality. They enable robust, courageous, and trusting relationships to form, which transform conversations and approaches toward a different, more informed framing across the Indigenous landscape. How can they support your work?

Associate Professor Gillian Kidman
Monash University

Gillian Kidman is an Associate Professor of Science Education at Monash University in Melbourne (formerly from YDC and QUT). She has research and teaching interests in science and mathematics, with particular interest in inquiry-based processes, and the potential inquiry has for the integration of disciplines – the development of STEM. She is currently working on the transdisciplinary nature of STEM inquiry with those who work in STEM careers as well as STEM teachers.

Gillian’s research, teaching and curriculum design is award winning at both state and national levels, and she was a Lead Writer and Senior Adviser of the Australian Curriculum: Science, and Australian Curriculum: Biology Science Inquiry Skills strand.

YuMi Deadly knowledge, understanding and learning: The untold story of the educator

Gillian’s presentation will explore the nature of YuMi Deadly knowledge, understanding and learning from the perspective of the educator. Through a reflection on practice, Gillian will explore how YuMi Deadly skills have benefited her teaching, and helped others succeed in a variety of settings. She will explore how she became increasingly more critical of her own teaching, leadership and transcultural awareness, and how she has been able to leverage her capabilities across different contexts. The skills Gillian learnt through YuMi Deadly Maths have become increasingly more important for success in her current position and no doubt for the rapidly changing future in a forever changing global world.
# Day 1: Monday 29 October 2018

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<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tr>
<td>8:00–8:50</td>
<td>ARRIVAL AND REGISTRATION – ROOM S308, LEVEL 3, S BLOCK, RING ROAD, QUT KELVIN GROVE</td>
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<tr>
<td>9:00–9:20</td>
<td><strong>Welcome session</strong></td>
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<td>Traditional Welcome to Country, Uncle Sam Watson</td>
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<td>Welcome from Associate Professor Donna King, Acting Head of the School of Teacher Education and Leadership, Faculty of Education</td>
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<td>9:20–10:30</td>
<td><strong>Keynote 1: Mundanara Bayles, Managing Director – BlackCard</strong></td>
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<td>Developing cultural competence</td>
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<td>10:30–11:00</td>
<td>MORNING TEA – ROOM S207, LEVEL 2, S BLOCK</td>
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<td>11:00–11:45</td>
<td><strong>Room S308</strong>&lt;br&gt;Baringa State Primary School&lt;br&gt;Reflections on mathematics pedagogical practices: Using the YuMi Deadly Maths approach in a Year 2 class&lt;br&gt;Presenter: Camila Zuniga-Greve (2017 STEM Award winner)</td>
<td><strong>Room S307</strong>&lt;br&gt;Mount Barker Community College (PRIME Futures Cluster 10, Albany)&lt;br&gt;Year 7 fractions and other topics&lt;br&gt;Presenter: Jinx Orton</td>
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<td><strong>Room S207</strong>&lt;br&gt;Mount St Bernard College&lt;br&gt;Herberton (PRIME Futures Cluster 8, Far North Qld)&lt;br&gt;YuMi at MSB&lt;br&gt;Presenter: Laura Hardess</td>
<td>Victoria Park State School&lt;br&gt;(AIM EU and YDM Centre for Excellence, Mackay)&lt;br&gt;Sustaining YuMi Maths in upper school&lt;br&gt;Presenter: Emma Goodman-Jones</td>
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<td>11:45–12:30</td>
<td><strong>Room S308</strong>&lt;br&gt;Kippa-Ring State School&lt;br&gt;(PRIME Futures Cluster 4, Brisbane North)&lt;br&gt;The why and how of YuMi at Kippa-Ring State School&lt;br&gt;Presenters: Jen Carter, Kim Paewai</td>
<td><strong>Room S307</strong>&lt;br&gt;Gnowangerup District High School (PRIME Futures Cluster 10, Albany)&lt;br&gt;What does it mean to be a successful YuMi Maths student?&lt;br&gt;Presenter: Amanda Nicholas</td>
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<td><strong>Room S207</strong>&lt;br&gt;Redcliffe Special School&lt;br&gt;(YDM Special Schools, Brisbane)&lt;br&gt;Firming up the foundations: Sustaining excellence in YuMi Deadly Maths&lt;br&gt;Presenters: Maureen McKenna, Erica Ortiz</td>
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<td>12:30–1:15</td>
<td>LUNCH – ROOM S207, LEVEL 2, S BLOCK</td>
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<td>1:15–2:00</td>
<td><strong>Room S308</strong>&lt;br&gt;Elizabeth Vale Primary School&lt;br&gt;(PRIME Futures Cluster 6, Adelaide)&lt;br&gt;YuMi Deadly journey and reflection&lt;br&gt;Presenter: Sarah Trevena</td>
<td><strong>Room S307</strong>&lt;br&gt;Gnowangerup District High School (PRIME Futures Cluster 10, Albany)&lt;br&gt;What does it mean to be a successful YuMi Maths student?&lt;br&gt;Presenter: Amanda Nicholas</td>
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<td>2:00–2:45</td>
<td><strong>Room S308</strong>&lt;br&gt;Kaurna Plains School&lt;br&gt;(PRIME Futures Cluster 6, Adelaide)&lt;br&gt;Connecting learning with our wetlands&lt;br&gt;Presenter: Natasha Trestrail</td>
<td><strong>Room S307</strong>&lt;br&gt;Oonoonba State School&lt;br&gt;(YDM North Qld, Townsville)&lt;br&gt;Getting down and deadly with YuMi Maths&lt;br&gt;Presenters: Nicole Azpiri, Jillian Milton</td>
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<td>2:45–3:00</td>
<td>CLOSE OF DAY ONE – ROOM S308</td>
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**Program**

**Day 2: Tuesday 30 October 2018**

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| 9:45–10:30    | Mount Barker Community College (PRIME Futures Cluster 10, Albany)  
*Place value – Year 1*  
Presenter: Bindi Wallinger  
Emerald State High School (PRIME Futures Cluster 1, Emerald, Central Qld)  
*Internalising the YuMi approach – linear algebra*  
Presenter: Rajiv Bhar |
| 10:30–11:00   | MORNING TEA – ROOM S207, LEVEL 2, S BLOCK                                                   |
| 11:00–11:45   | Caboolture East State School (PRIME Futures Cluster 4, Brisbane North)  
*Making it balance*  
Presenters: Julie Simper, Dannielle Newman  
Loganlea State High School (XLR8 and PRIME Futures Cluster 7, Brisbane South)  
*Deadly Maths at Loganlea SHS*  
Presenters: Adam Rafferty, Mereena Joseph, Andrew Steele |
| 11:45–12:30   | Spencer Park Primary School (PRIME Futures Cluster 10, Albany)  
*Enthusiastic maths learners*  
Presenter: Fiona Kowald  
Mullewa District High School (PRIME Futures Cluster 9, Geraldton)  
*Mullewa District High School Intervention Program*  
Presenter: Rebecca Pracy  
Cranbrook State School (PRIME Futures Cluster 2, Townsville)  
*The Cranbrook journey: Where to from here?*  
Presenters: Jeff Capell, Samantha Nega |
| 12:30–1:15    | LUNCH – ROOM S207, LEVEL 2, S BLOCK                                                         |
| 1:15–2:00     | Annandale State School (YDM North Qld and YDM Centre for Excellence, Townsville)  
*YuMi Deadly Maths approach to problem solving: Linking problem-solving strategies and approaches to real-world problems*  
Presenter: Nikky Guilfoyle  
Springfield Central State High School (Online Junior Secondary Maths Program)  
*Making maths real / Getting students to help teach each other*  
Presenters: Melissa Hardman, Michael English  
Assoc. Professor Gillian Kidman (Monash University, Melbourne)  
*YuMi Deadly knowledge, understanding and learning: The untold story of the educator* |
| 2:00–2:45     | Rockville State School (YDM Centre for Excellence, Toowoomba)  
*Using data to inform our teaching*  
Presenters: Vicky Broderick, Rebecca Carter  
Glenala State High School (PRIME Futures Cluster 7, Brisbane South)  
*Transformations: ‘Flip the Fish’*  
Presenters: Kelly Snelling, Terri O’Callaghan |
| 2:45–3:00     | SUMMIT CONCLUSION – ROOM S308                                                               |
Abstracts

Annandale State School
(YDM NQ and YDM Centre for Excellence, Townsville)
YuMi Deadly Maths approach to problem solving: Linking problem-solving strategies and approaches to real-world problems
Presenter: Nikky Guilfoyle

Year 3 students were not applying the problem-solving framework independently. I reflected and wondered: If I provide a real-world problem, will they independently apply this process? This is our story.

Baringa State Primary School
Reflections on mathematics pedagogical practices: Using the YuMi Deadly Maths approach in a Year 2 class
Presenter: Camila Zuniga-Greve (2017 Indigenous STEM Award winner, formerly of Heatley State School, PRIME Futures Cluster 2, Townsville)

Join me as I share my planning and implementation of a Year 2 geometry unit using the YuMi Deadly Maths approach. Here we will explore how to engage all students; embed Aboriginal and Torres Strait Islander perspectives; and use multipurpose resources as well as digital resources to support the teaching and learning of mathematics.

Caboolture East State School
(PRIME Futures Cluster 4, Brisbane North)
Making it balance
Presenters: Julie Simper, Dannielle Newman

This presentation is suitable for teachers in the early years – Prep to Year 2. We will demonstrate a cycle of learning that embeds the RAMR framework and aims to support students’ early misconceptions regarding the ‘equals’ sign. This is particularly important as research shows us that many students have misconceptions involving the ‘equals’ sign and equivalence. The presentation will include a series of practical, hands-on activities used to ‘make number balance’ in an early years’ classroom.

Cranbrook State School
(PRIME Futures Cluster 2, Townsville)
The Cranbrook journey: Where to from here?
Presenters: Jeff Capell, Samantha Negra

Cranbrook has been on a journey to improve the school’s maths results focussing on the number strand. Our content is based around the Big Ideas for number and YuMi is the pedagogy. The students’ attitudes to maths have changed and all current staff have been coached around the RAMR. But, where do we go from here to ensure its sustainability?

Elizabeth Vale Primary School
(PRIME Futures Cluster 6, Adelaide)
YuMi Deadly journey and reflection
Presenter: Sarah Trevena

This presentation will discuss the journey we have taken as a school to support teachers to learn about the pedagogy, effectively implement and follow the RAMR cycle to improve student engagement in maths.

Emerald State High School
(PRIME Futures Cluster 1, Emerald)
Internalising the YuMi approach – linear algebra
Presenter: Rajiv Bhar

My HoD was one of the first people from my school introduced to YuMi Deadly several years ago. While on a period of non-contact time, I noticed him take his Year 8 class out to the basketball courts and I decided to follow. What followed next was a lesson that drew surprising insight and understanding from students new to linear algebra. After getting him to reflect on his planning for that lesson, I could see how he had incorporated the YuMi Deadly approach implicitly. This session will go into what I learned from him.

Glenala State High School
(PRIME Futures Cluster 7, Brisbane South)
Transformations: ‘Flip the Fish’
Presenters: Kelly Snelling, Terri O’Callaghan

A lower secondary mathematics lesson linking traditional Indigenous cooking methods with Transformations. Flip the Fish is a visual and kinaesthetic experience through use of the RAMR approach. Engagingly, the lesson allows students to recognise three types of Transformations (Flip, Slide, Turn) and understand that the shape still has the same size, area, angles and line lengths. Come and Flip a Fish with us!

Gnowangerup District High School
(PRIME Futures Cluster 10, Albany WA)
What does it mean to be a successful YuMi Maths student?
Presenter: Amanda Nicholas

Gnowangerup District High School is located in regional Western Australia. It caters for students in Kindergarten to Year 10. Many students leave our school after Year 6 to board at city private schools. The students who stay into Years 7–10 are generally from lower socio-economic backgrounds, some with behavioural issues, and many with below-benchmark numeracy and literacy understandings. These are students who do what they can to avoid work, they ‘hate’ chalk and talk lessons, and they would be happy to be given ‘easy’ worksheets. This presentation will incorporate a show-and-tell of some of the YuMi activities that have developed these students into interested, engaged learners who are becoming students who enjoy the struggle of Maths.
Abstracts

focused on developing teachers' understanding of the ‘Reality’ for mathematics using the YuMi Deadly approach. Current teaching practices have teaching mathematics by providing real disability. By identifying to improve student engagement and outcomes in an approach suited to delivering mathematic outcomes for students with a disability. By establishing a clear focus within the school as to why YuMi Deadly Maths is an approach to teaching mathematics. Current teaching practices have teaching mathematics by providing real disability. By identifying to improve student engagement and outcomes in an approach suited to delivering mathematic outcomes for students with a disability.

Mount Barker Community College
(PRIME Futures Cluster 10, Albany WA)

Place value – Year 1
Presenter: Bindi Wallinger
This presentation will explore the concept of place value and provide engaging activities using the maths mat and ten frames within a Year 1 context. It will discuss how we can extend activities to promote excellence. We will also share some other ways YuMi has been implemented across Mount Barker Community College.

Mount St Bernard College Herberton
(PRIME Futures Cluster 8, Far North Queensland)

YuMi at MSB
Presenter: Laura Hardess
The focus of my presentation will be on how we implemented the YuMi program at our school. Many photos, videos and notes will demonstrate our shared successes, challenges and activities we undertook. The presentation will highlight how we utilised RAMR and language development for our ESL students, as well as sharing resources with teachers and support staff. A program has been developed to train staff to use the program throughout the school and sustain it. We hope you will be as excited as we are in the progress we have made through YuMi.

Mullewa District High School
(PRIME Futures Cluster 9, Geraldton)

Mullewa District High School Intervention Program
Presenter: Rebecca Pracy
In Term 1 2018, our school began an intervention program following the YuMi Deadly Maths RAM-R Cycle. Our intervention program targeted Pre-Primary to Year 8. Every student made progress, and within the first 5 months, 50% of our kids had moved up 1–2 year levels in maths. Follow our journey and see what we have been up to.

Oonoonba State School
(YDM North Queensland, Townsville)

Getting down and deadly with YuMi Maths
Presenters: Nicole Azpiri, Jillian Milton
Join us as we get set to embark on the next leg of our YuMi journey. In order to create and sustain excellence in maths, we have set forth on a project to embed YuMi across all year levels of our school. This journey, being led by our YuMi Champions, will take some of our staff into uncharted territory as we guide, support and challenge them to incorporate the RAMR cycle into their classroom mathematics pedagogy. We envisage, by the completion of the 2019 school year, that YuMi will be clearly evident across all classrooms and in the school grounds so that we can engage and enhance the mathematics learning of our students. Improvement in teaching, engagement and learning are important, because at Oonoonba State School – ‘our students are worth whatever it takes’.

Redcliffe Special School
(YDM Special Schools, Brisbane)

Firming up the foundations: Sustaining excellence in YuMi Deadly Maths
Presenters: Maureen McKenna, Erica Ortiz
Building on our story from 2017 – ‘Our story so far’ – saw the importance of establishing a clear focus within the school as to why YuMi Deadly Maths is an approach suited to delivering mathematical outcomes for students with a disability. By improving student engagement and outcomes in mathematics we are aiming to re-shape teacher thinking about the importance of teaching mathematics by providing real-life, hands-on learning experiences. Using whole school maths data, we identified a focus area for mathematics teaching – Estimate and Calculate – to target our approach in teaching mathematics using the YuMi Deadly approach. Current teaching practices have focused on developing teachers’ understanding of the ‘Reality’ for mathematical teaching and the ‘Abstraction’ – Body, Hand and Mind learning experiences that bring this maths learning alive for our learners.

Rockville State School
(YDM Centre for Excellence, Toowoomba)

Using data to inform our teaching
Presenters: Vicky Broderick, Rebecca Carter
This presentation will explore Rockville State School’s YuMi Deadly Maths journey which began in 2015. Rockville began investigating YuMi Deadly Maths after a priority school review identified Numeracy as a narrow focus for improvement. We will outline the lengthy process we have undertaken in order to embed a whole school approach to improving Numeracy outcomes as well as facilitate the sustainability of YuMi Deadly Maths within our school. The following key areas will be explored: Rockville’s Numeracy Lockdown; long-term teacher investment; ‘train-the-trainer model’ – modelling, staff meetings, pedagogical walk-throughs; breeding teacher self-efficacy to ensure program success; identifying and addressing problematic areas; using rigorous data collection to inform teaching and planning for success; facilitated data collection; planning for success; collegial engagement.

Spencer Park Primary School
(PRIME Futures Cluster 10, Albany WA)

Enthusiastic maths learners
Presenter: Fiona Kowald
Spencer Park Primary School is a K-6 school located in south-west Western Australia. This presentation will share how YuMi pedagogy is creating a space where teachers and students learn together. Hear experiences from our school and join in with hands-on practical activities from a Year 4 class that have resulted in high levels of engagement and enthusiastic, motivated maths learners and teachers.

Springfield Central State High School
(Online Junior Secondary Maths Program)

Making maths real / Getting students to help teach each other
Presenters: Melissa Hardman, Michael English
Melissa will talk about Springfield Central SHS’s new semester-long short course in numeracy (based on the QCAA 2018 syllabus), and strategies learned from the online Junior Secondary Maths Program in creating effective learning for students. The aim of this course is to enable students who are disengaged and failing general mathematics to understand and use key mathematical concepts they will need for general maths in life, and to create some personal financial literacy, as well as gain their numeracy ticket. Michael will talk about how his peer feedback system improves student learning, and the Springfield Central SHS Indigenous Support Program.

Victoria Park State School
(AIM EU, YDM NQ and YDM Centre for Excellence, Mackay)

Sustaining YuMi Maths in upper school
Presenter: Emma Goodman
This session will describe a hands-on approach to sustaining YuMi Maths in an upper school classroom that doesn’t require an extensive Pinterest obsession or fancy over-the-top resources.

Victoria Park State School
(AIM EU, YDM NQ and YDM Centre for Excellence, Mackay)

YuMi Deadly Maths is sustainable at Victoria Park State School
Presenter: Faye Boys
Purposeful and timely professional development, AIM EU, YuMi-fying NAPLAN practice, engaging the community through gardening, cooking and Fiestas, linking to Digital Technologies, resourcing classrooms. All ways we’ve made YuMi Deadly Maths real life for teachers and students so that sustainability is achieved.
Summit Information

What to bring
Please bring your own water bottle, which can be filled from the water bubblers available in the building. Morning tea and lunch, including tea and coffee, will be provided. Tea and coffee will not be available on arrival, so you may wish to purchase your favourite brew from a nearby cafe. You may wish to bring a notebook and a USB stick for saving resources.

Morning tea and lunch breaks
Morning tea and lunch on both days will be served in room S207 on Level 2 of S Block. Please help us to keep the Sharing Summit on time by moving to and from breaks and between sessions quickly.

YuMi Deadly Centre staff
Each session of the Sharing Summit will be facilitated by a YDC staff member. As well as these facilitators, YDC administrative staff will be happy to assist you with program and venue queries and anything else you might need to know. We acknowledge and thank the following staff for their valuable assistance with planning and running the Sharing Summit: Kim Alexander, Robyn Anderson, Jan Cavanagh, Tom Cooper, Charlotte Cottier, Gillian Farrington, Edlyn Grant, Judy Hartnett, Jim Lowe, Anne McIntyre, Chelsea Meyrick, Grace Sarra, Lindy Sugars, Alex Stuetz.

What is the RAMR cycle?
The Reality–Abstraction–Mathematics–Reflection (RAMR) cycle proposes:
- working from reality and local culture (prior experience and everyday kinaesthetic activities)
- abstracting mathematics ideas from everyday instances to mathematical forms through an active pedagogy (kinaesthetic, physical, virtual, pictorial, language and symbolic representations, i.e. body → hand → mind)
- consolidating the new ideas as mathematics through practice and connections
- reflecting these ideas back to reality through a focus on applications, problem-solving, flexibility, reversing and generalising.

Venue and transport information
The building circled in green on the map below (S Block) is the location for the Sharing Summit. Most sessions will be held in rooms S308 and S307 on the third floor, with some sessions in S207 on the second floor. Ample undercover paid parking is available in J Block (accessed via Sports Lane or Boundary Road off Herston Road) or F Block (accessed via Boundary Road). Outside paid parking is available in the Rainforest car park between H Block and S Block (accessed via the Ring Road off Victoria Park Road). There is a boom gate on entry to the Ring Road which will lift when approached. The red arrows on the map below show the ways to navigate to S Block from the car parks or Victoria Park Road. The QUT Kelvin Grove Busway Station on the Inner Northern Busway is conveniently located next to S Block. Due to construction, the Ring Road directly in front of S Block is closed and entry to S Block is only possible from the ground floor. For more information about parking at QUT Kelvin Grove, including costs, please visit this page.

Acknowledgement
In keeping with the spirit of Reconciliation, we acknowledge the Traditional Owners of the lands where QUT now stands – and recognise that these have always been places of teaching and learning. We wish to pay respect to their Elders – past, present and emerging – and acknowledge the important role Aboriginal and Torres Strait Islander people continue to play within the QUT community. We also acknowledge the Traditional Owners of the lands where our research projects have been and are being conducted.

Contact us
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