

## 3rd Annual Primary Mathematics Conference

# Differentiating Maths: How To Do It

Anita Chin Mathematics Consultancy

**For many schools, differentiation - particularly in maths - remains confusing and challenging.**

How do you cater for each student in your class to give them the best opportunity and challenge their learning?

Where do you find the time to create 'just right' tasks and activities for the 30 individual students in your classroom?

How do you keep track of where each student is at, where their gaps are, and what they need to learn next in order to progress?

### Who should attend?

Schools can send a team of up to 8 educators including:

- Classroom teachers
- Instructional leaders
- Maths leaders and maths team members
- Principals, Deputy Principals, Assistant Principals

Find out the answers to these questions and more at our team-based annual primary mathematics conference, which this year is all about differentiating maths K-6. Featuring some of Australia's greatest primary maths experts, including Emeritus **Professor Peter Sullivan**, this one-day Saturday conference gives you the tools and strategies you need to take your differentiation from good to great.

**"To differentiate instruction is to act on the belief that all kids deserve access to the richest, most compelling learning experiences and to provide the scaffolding they need to seize that opportunity."**

Carol Ann Tomlinson & Michael Murphy  
Leading for Differentiation: Growing Teachers Who Grow Kids

The conference will show you why the subject of mathematics needs a unique approach to differentiation, and how to make it simple, low-stress and incredibly effective. With a 60-minute keynote address, a 20-minute Pecha Kucha session and 12 workshops to choose from, you're bound to come away inspired and informed with practical tasks, hands-on tools, maths talk and content knowledge, ready for use in school the very next week.

**Campbelltown Catholic Club, Sydney**  
**Saturday 17 August 2019**

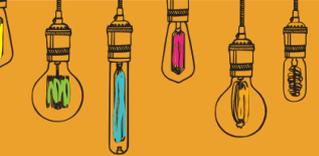


Find out more and register at

[www.primarymaths2019.com.au](http://www.primarymaths2019.com.au)

Questions? Contact Cindy at [cindy@anitachinmaths.com.au](mailto:cindy@anitachinmaths.com.au)





## Speakers

For *Differentiating Mathematics: How To Do It*, we have gathered some of the greatest minds working in mathematics education in Australia. They are passionate about empowering all educators to be the best they can be.



### PETER SULLIVAN - Emeritus Professor, Monash University, VIC

Peter Sullivan has extensive experience in research and teaching in teacher education and was an editor of the *Journal of Mathematics Teacher Education* and the *Mathematics Education Research Journal*. He is a past President of the Australian Association of Mathematics Teachers, authored the *Shape Paper* and was lead writer of the *Australian Curriculum: Mathematics*. Peter's research explores ways of teaching mathematics that help students build connections between related ideas. One monograph, *Teaching Mathematics: Using research-informed strategies* published online by ACER, has been downloaded over 170000 times.



### BRUCE FERRINGTON - Year 2 Teacher, Radford College, ACT

Bruce Ferrington is Vice President of the Canberra Mathematical Association and has over 30 years' primary teaching experience in Australia and the UK. A Churchill Fellowship in 2012 led him to the US, Japan and Singapore to study maths education in a global context. He was a resource writer for the Australian Academy of Science's reSolve: Maths By Inquiry project and received a 2018 Australian Mathematical Sciences Institute Excellence in Teaching Award. His blog *Authentic Inquiry Maths* reflects on his classroom lessons and activities. He teaches full time at Radford College and lectures part time at Australian Catholic University.



### EMMA CAMPBELL - Mathematics Education Consultant, Maths Master Class, NSW

Emma Campbell is a Mathematics Education Consultant at Maths Master Class assisting teachers to develop mathematics content knowledge and pedagogy. As Senior Curriculum Officer Mathematics 2011-2012 at NESA she developed the 2012 *NSW Mathematics K-10 Syllabus for the Australian Curriculum* and support materials. Interested in the K-12 continuum of learning in mathematics and passionate about assisting teachers implement logical and creative mathematics learning pathways, Emma believes language and visual representations are critical in improving learning in mathematics classrooms



### JUDY HARTNETT - Mathematics Education Consultant, Making Maths Reason-able, QLD

Judy Hartnett is a Mathematics Education Consultant, working in schools to support teachers to improve maths learning outcomes for their students. With a primary teaching background and a passion for maths teaching, Judy has worked in mathematics education for more than 20 years. Judy has been a Maths Education Advisor in government and Catholic schools in Queensland and a lecturer of undergraduate teachers. Areas of maths education she is particularly passionate about are teaching using an inquiry approach and getting students to understand maths, not just 'do' maths.



### STEPHANIE SALAZAR and SAMANTHA MCCRACKEN - John Purchase Public School, NSW

Stephanie Salazar is a classroom teacher, Assistant Principal and Instructional Coach. She founded the New Teacher Tribe initiative and #PSTchat to support pre-service teachers around the world. Her passion is inspiring educators to see greater potential in themselves and their students. In 2018, Stephanie received the Australian College of Educators NSW Young Professional Award, and in 2017, the Executive Director's Recognition Award for Innovation and Creativity in Leading Learning Towards Improved Student Outcomes.



Samantha McCracken is a passionate and eager classroom teacher at John Purchase Public School who is privileged to have Stephanie Salazar as her mentor. Her passion is motivating students to think deeply in maths, building their curiosity and helping them develop their reasoning. Teaching students maths is the highlight of her work day!



### TIM WAUGH - Learning Strategist K-6, Anita Chin Mathematics Consultancy, NSW

Tim Waugh is a practising Teacher Educator with extensive cross-sectoral teaching, leadership and consultative experience in a variety of rural, regional and metropolitan settings. Committed to developing agile problem-solving skills and deep mathematical understanding, Tim mentors school leaders, curriculum coordinators and teachers at a classroom and whole school level. With his finger on the pulse of the 'big ideas' in maths, his special interests include learning progressions in Numeracy, Mathematics and STEM and assisting teachers to develop and assess rich, challenging mathematical tasks.

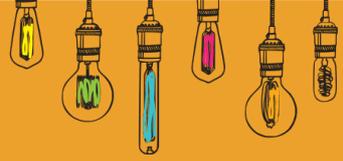


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# Introducing ANITA CHIN

Founder & Learning Strategist K-8,  
Anita Chin Mathematics Consultancy, NSW



A leading expert in Australian primary mathematics education, Anita works with schools across Australia to transform teachers and executive team members into confident, inspired mathematics educators and leaders. She does this by delivering a deep, whole-school understanding of the mathematics curriculum, along with innovative teaching techniques that inspire and delight.

Anita is the Founder of Anita Chin Mathematics Consultancy, which supports and inspires teachers and leaders through tailored workshops, demonstration lessons, team-based conferences and whole-school interactive learning frameworks. Anita's work includes PL offerings for teachers and a new leading maths long-course; her new series of ChinLAND mathematics teaching resources; and guides to resources such as equipment, books, readings and websites that she frequently uses in schools. At the core of everything Anita does is a passion for building the next generation of deep mathematical thinkers.

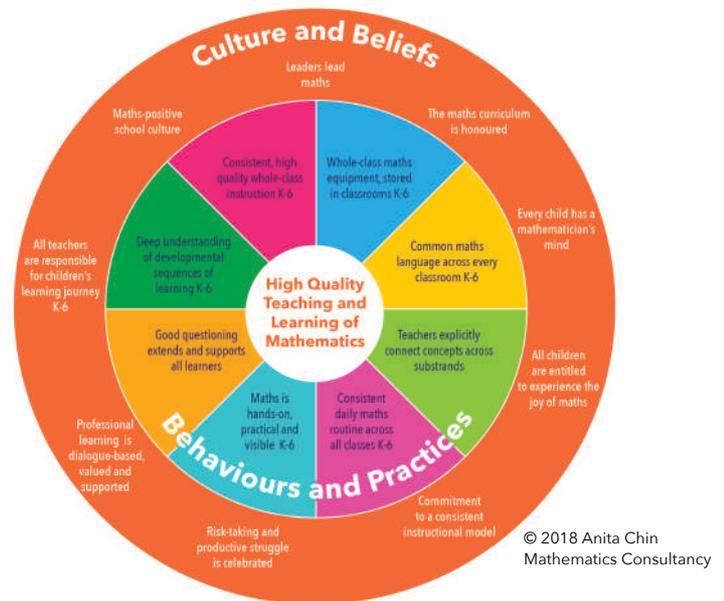
## Anita's workshops

Anita will lead two different hands-on workshops using *The Whole-School Approach to Mathematics K-6 Model* that she designed and launched with Tim Waugh in 2018.

Anita will pull the pieces of the differentiation puzzle together for classroom teachers, maths leaders and principals to help them with both the WHAT and HOW of differentiating maths instruction. To do this she will address differentiation on two fronts.

## The Whole-School Approach to Mathematics K-6 Model

By Anita Chin and Tim Waugh



**BRAND NEW CONTENT**  
from Anita's 2019

**'Leading Maths At Your Primary School'**  
six-month long course (9 NESA hours)

## HOW | 'Leading maths: Must-have tools to build your teachers' capacity to differentiate'

Workshop participants will:

- Engage with differentiation tools and resources that can build teachers' capacity to differentiate, including Anita's ChinHOW and ChinMAP resources.
- Use a Health Check tool to gauge their school's progress, determine where to next, and how to get there.

## WHAT | 'What does whole-class differentiated instruction look like, K-6?'

Workshop participants will:

- Become the student in a differentiated classroom to experience what whole-class differentiated instruction looks, sounds and feels like
- Discover Anita's ready-to-use differentiated resources including ChinTALK, ChinSENSE and ChinTEACH.

Anita is looking forward to sharing her simple, common sense teaching strategies that have proven to be highly effective in primary mathematics classrooms and that primary teachers just love!



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## Now it's even easier to select the right workshops for your team

Our workshops are designed by year level and career stage, with something for everyone:

- ECT, M - Early career teachers and their mentors
- EXP - Experienced teachers
- L - Maths leaders (eg. teachers who are passionate about maths and committed to transforming it at their school)
- P - Principals and executives (eg. AP, ET, DP, P)

Time	Location	Session	Presenter	Year Level	Career Stage
8:15 - 8:45 am	Upstairs foyer	Registration and refreshments			
8.45 - 9.00 am	Fitzroy Room	Opening address	Anita Chin	K-6	ECT, EXP, L, P
9.00 am - 10am	Fitzroy Room	Keynote: 9 strategies for including all students	Peter Sullivan	K-6	ECT, EXP, L, P
<b>10.05 am - 11:20 am Concurrent Session A</b>					
	Fitzroy Room	A1: Leading maths: Must-have tools to build your teachers' capacity to differentiate	Anita Chin	K-6	EXP, L, P
	Macquarie Room	A2: Assessing place value: what do students really understand	Judy Hartnett	Y1-3	ECT, EXP, L, P
	Phillip Room	A3: If we've all got the same answer, we must be asking the wrong question	Bruce Ferrington	Y3-6	ECT, EXP
	Lachlan Room	A4: Making differentiation doable for early career teachers: multiplication and division	Stephanie Salazar and Samantha McCracken	Y3-6	ECT, M
11:20 - 11:45 am	Upstairs foyer	Morning Tea			
<b>11.45 am - 11:20 am Concurrent Session B</b>					
	Fitzroy Room	B1: From tasks to lessons to sequences: planning for inclusion	Peter Sullivan	Y3-6	ECT, EXP, L, P
	Macquarie Room	B2: Using the Singapore Model Method for problem solving (aka 'Singapore Bar Model')	Emma Campbell	Y3-6	ECT, EXP, L, P
	Phillip Room	B3: Mathematical misconceptions and what to do about them	Tim Waugh	K-6	ECT, EXP, L, P
	Lachlan Room	B4: Making differentiation doable for early career teachers: fractions	Stephanie Salazar and Samantha McCracken	Y3-6	ECT, M
1:00 - 1:35 pm	Upstairs foyer	Lunch			
<b>1:35 pm - 2:50 pm Concurrent Session C</b>					
	Fitzroy Room	C1: What does whole-class differentiated instruction look like?	Anita Chin	K-6	ECT, EXP, L, P
	Macquarie Room	C2: Assessing place value: Identifying what students really understand	Judy Hartnett	Y4-6	ECT, EXP, L, P
	Phillip Room	C3: Writing units of work with differentiation in mind	Emma Campbell	K-6	EXP, L, P
	Lachlan Room	C4: Pattern - the password to mathematics: Cracking the code with Year 2	Bruce Ferrington	K-2	ECT, EXP
3:00 - 3:20 pm	Fitzroy Room	Pecha Kucha: A whole-school approach to maths	Multi-speaker	K-6	ECT, EXP, L, P
3:20 - 3:30 pm	Fitzroy Room	Prizes and close			



Completing Anita Chin 2019 3rd Annual Primary Mathematics Conference - Differentiating Maths: How To Do It will contribute 5 hours and 45 minutes of NSW Education Standards Authority (NESA) Registered PD addressing 2.5.2, 6.2.2, 6.3.2 and 6.4.2 from the Australian Professional Standards for Teachers towards maintaining Proficient Teacher Accreditation in NSW.

### REGISTRATION FEES (incl. GST) per person.

	EARLY BIRD Closes Friday 12 April 2019 (last day of Term 1)	FULL PRICE Closes Friday 5 July 2019 (last day of Term 2)
Individuals	\$300	\$340
Teams (up to eight)	\$280	\$320



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