

# Intensive Hands-on Mathematics Curriculum Days

Quick overview on slide 3 and slides 9-11







Engaged teachers = engaged students



# Developmental sequences

Intensive Workshop 1 – Place Value developmental sequence

Intensive Workshop 2 – Additive thinking (Addition and Subtraction sequence)

Intensive Workshop 3 – Multiplicative thinking (Multiplication and Division sequence)

Intensive Workshop 4 – Fractions, Decimals and Percentages sequence

Intensive Workshop 5 – Measurement, Space, Statistics and Probability

# Feedback from schools:

○ "I can't thank you enough for the professional learning you provided our teachers on Friday. The room was buzzing, and this isn't always the case at PDs. You demonstrated so clearly the power of storytelling in Maths and the value of making connections to real life experiences. You showed us how an understanding of place value is at the core of teaching and learning, the importance of consistent anchor language, what feedback can look like, and that differentiation doesn't have to be arduous.

Our school has recently begun a journey on the Science of Learning path. All the elements of your presentation linked perfectly to this: explicit instruction, oral language, and multi-sensory learning. We were also impressed with your level of energy, which was constant throughout the day. Almost immediately Friday afternoon, I had several emails from teachers expressing how much they enjoyed the day. That says it all."

**Jane McLauchlan, Numeracy Leader,  
Warrnambool PS**



# Feedback from schools:

○ “I cannot recommend Top Ten Mathematics enough. Our staff were privileged to receive a comprehensive full-day professional development session on Early Years Place Value, skilfully delivered on the last day of Term 1. This PD experience exceeded our expectations, as the presenter expertly guided us through engaging math activities while explaining the pathways to developing strong mathematical foundations. The day flew by, leaving our staff inspired and invigorated. The presenter demonstrated an impressive depth of knowledge and exuded boundless enthusiasm for the subject matter. Moreover, she astutely tailored her strategies and provided ideas for adaptation and differentiation to suit the specific needs of our student cohort, who have physical disabilities.

Weeks after the PD, our classrooms have changed. Students are now engaged in tailored math games that cater to their individual needs, and our teachers approach maths instruction with newfound confidence. Thank you Anna and the Top Ten team for your invaluable contribution to our school's mathematics program.”

**Ms Vanessa Rolfe, Numeracy Learning Specialist,  
Glenallen School**

# Feedback from schools:

○ “I have had so many staff and executive speak so highly of the day. Our teachers loved your high level of enthusiasm, amazing organisation, and wonderful expertise. It is evident you are so passionate about all things maths and this energy just filled the room.

I appreciate the challenge of catering for a large group, in a large space and with all levels/mix of staff, yet, you had everyone engaged at all times!

One staff member said, “That was the best PL I have been to in a long time!”. Another said, “I love that Anna is teaching us just like we would teach our students”.

Another said, “I wish I was taught maths like this when I was at school!”

**Ms Kylie Smith, Assistant Principal Curriculum and Instruction, Griffith East PS**



# Feedback from schools:

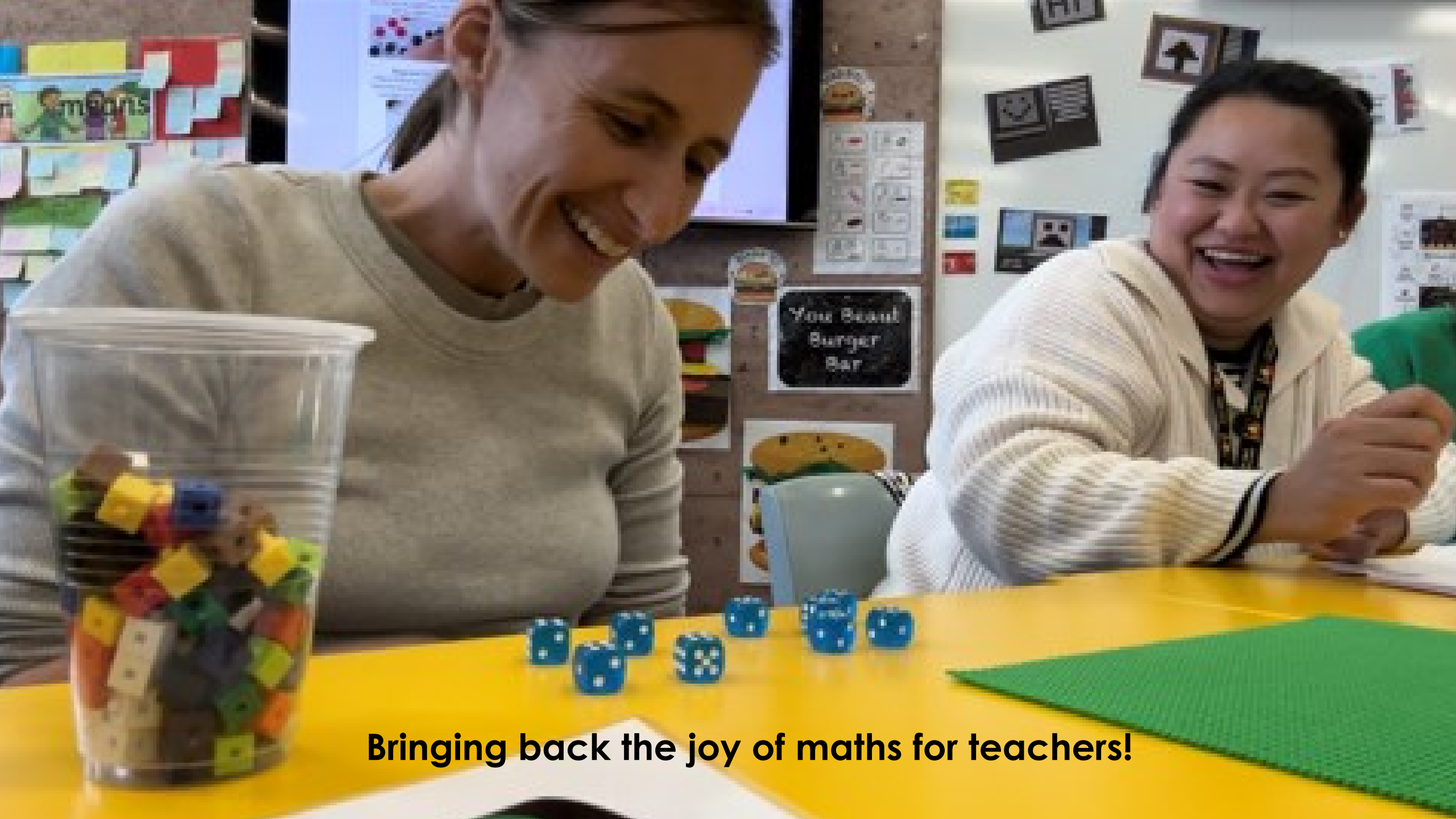
○“I have never seen a group of people so energised and positive about being involved in PL as they were on Friday.

You were energetic, enthusiastic, and overall brilliant. The comments from staff have been so positive and the senior teachers have made a commitment to change to Top Ten once the new 3 – 6 packs come out. This was a totally unexpected, but amazing, outcome as it is what I wanted and didn't think would be achieved.

The hands-on activities had adults invested so we could all see the impact it would have on the students. Something that was great was the number of tips you gave to teachers that could apply to any learning area.

If I look back over the last 12 months, this has been the best investment I have made for the school in terms of getting staff on board and value from professional learning. Thank you.”

**Ms Fiona Blundell, Principal,  
East Maddington PS**



**Bringing back the joy of maths for teachers!**



# Overview of Top Ten Maths Workshops

Our co-founders deliver intensive hands-on numeracy workshops as whole-school curriculum days. Our Professional Learning workshops are practical, hands-on and developmentally-sequenced, highlighting the pedagogy behind supportive planning units, while also showing teachers examples that can be used in the classroom the next day. We deliver professional development in a classroom-based manner. Teachers transform into the students for the day and actively participate in each challenging task, while being taken on a journey along a developmental sequence.

# Overview of Top Ten Maths Workshops

During the first training workshop at most of our member schools, we focus on our Place Value sequence (however, this can be changed to another focus if you prefer), progressing through each critical skill from the early years (preschool) up to year 6. This involves modelling and teams participating in our highest impact hands-on lessons for the Big Idea of Mathematics focus throughout the day.

In the process, we explain and demonstrate strategies for explicit modelling with materials; questioning and feedback tips; common misconceptions; as well as brainstorming enabling and extending prompts with strategies for ongoing extension and support within each session. The navigation, diagnostic and formative assessment options, as well as links to the units are consistently highlighted throughout the day.



# Overview of Top Ten Maths Workshops

Our workshops are very interactive and engaging for teachers, rather than lectures.

Teachers are supported to ask lots of questions and are shown practical tips to gain the most from the units and assessments to assist with the daily elements of hands-on maths planning based on students' points-of-need.

We can also cater the training to your school's numeracy goals and specific focuses.



# Feedback from schools:

○ “Incredible sessions and deep professional learning!”

**Ms Chantelle Cochran**  
**Deputy Principal, Connolly PS**

○ “The staff really enjoy the time you spent with them and they have come away feeling confident in their use of assessment data and planning.”

**Mr Matthew Vincent**  
**Principal, Upper Sandy Creek PS**

“We all loved it! This is one of the best staff development days we have participated in. A very well organised series of sessions with an extremely knowledgeable presenter. The resources shown were amazing and very hands on.”

**Ms Juliet Sonter (Principal) and the team at  
Plunkett St Public School**



# Feedback from schools:

○“I have always enjoyed teaching Mathematics but thanks to TOP TEN, I now love it! Since completing the PL on Top Ten, I have completely altered how I teach Mathematics in my ES1 classroom and there is never a lesson where hands on activities are not the predominant teaching tool. The PL I have received is evidence-based, highly educational for teachers and just so engaging. And best of all, my students are reaping the rewards.”

**Ms Fiona Tickle, Assistant Principal  
Tamworth South Public School**

○“An inspiring day with a presenter who is passionate about maths, knows the program and expertly demonstrates the possibilities of providing a hands-on, successful maths program that differentiates for a range of abilities in a classroom. We look forward to seeing you back again for the Addition and Subtraction PL.”

**Ms Mel Rowling, Maths Leader  
West Northam PS**

(since this review, this campus has engaged Top Ten for five PL workshops and implemented the approach at a whole-school level)

# Hands-on Maths Workshops across Australia

Feed your new  
number pet – early  
place value



# Feedback from schools:

**Maths Association of WA feedback provided directly from MAWA in November 2023 following two Top Ten Mathematics workshops at the Annual Mathematics Conference:**

100% of respondents felt that you presented well (exclusively 5 star ratings).

100% felt your session was informative and engaging.

Here are the comments that were left for you:

- “Lots of practical hands on activities”
- “My favourite presenter at conference”
- “This was a great session!”

Hopefully this assists you and we look forward to welcoming you to next year's WA Annual Maths Conference, 20-22 November.”

**Maths Association of Western Australia  
conference feedback email from MAWA  
Executive Officer**





Building the big ideas  
developmental sequence  
at the start of the session,  
which is then followed by hands-on tasks  
to bring the mathematical staircase to life.



# Feedback from schools:

○ “Thank you again for your incredible support at CPPS. You go above and beyond what for our community and we see that and appreciate that.”

**Mr Graham Elliott, Principal, Chirnside Park PS**

○ “Thanks again for the continued support you provide our teams. The enthusiasm and passion you share has continued to support our aim in developing of a rich and effective mathematics program.”

**David, Assistant Principal, Chirnside Park PS**

○ “You are always so supportive of how I plan. Thank you.”

**Sharon, 5/6 Teacher, Chirnside Park PS**



# Feedback from schools:

○ “The hands-on sessions were inspiring and so accessible. I can see the piggybacking of ideas happening before my eyes. The excitement, interest and buzz of maths has had a rebirth – thanks so much!”

**Ms Maree Seymour, Principal  
Sherbourne Primary School**

○ “This PD provided me with the confidence I was looking for to teach maths in a structured but fun way. The activities are valuable and I will be using them immediately.”

**Ms Joanne Knight, Year 5/6 Teacher  
James Cook PS**



# Feedback from schools:

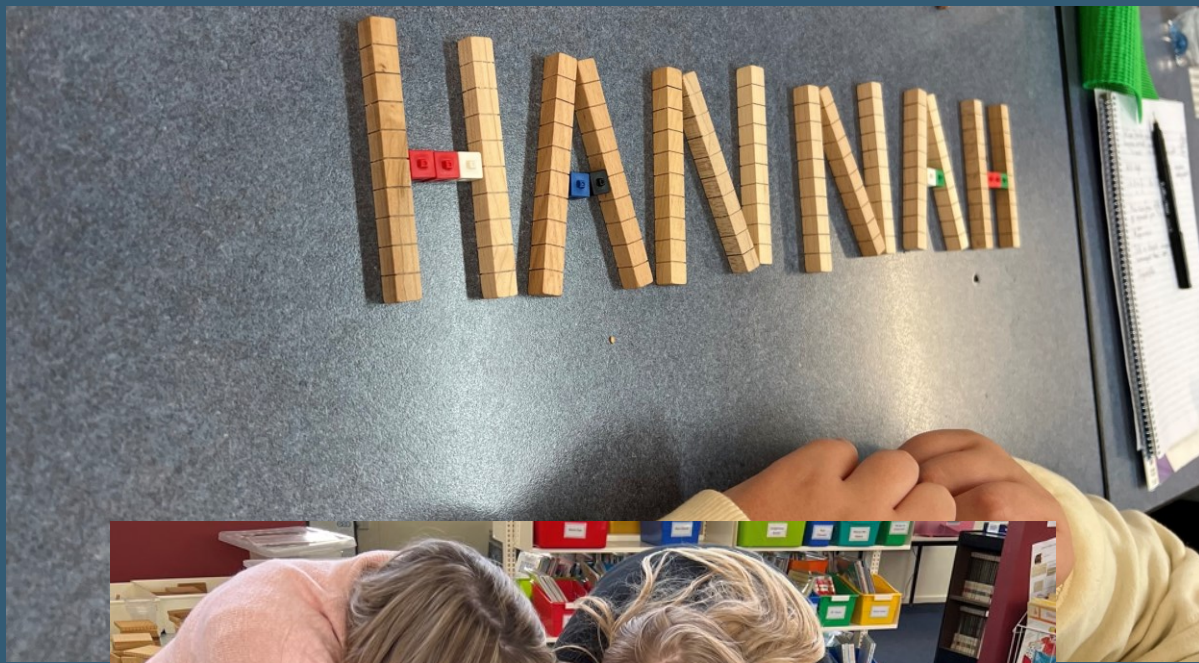
○ “Our staff feel excited about teaching maths. The PL provided our teachers with high-quality, evidence-based approaches to effectively challenge their students. The presenter’s enthusiasm and passion for mathematics was infectious.”

**Ms Laura Douglas, Assistant Principal  
Camdenville Public School**

○ “We have absolutely loved using the Top Ten maths program! We have found it provides us with a whole school framework that is consistent and works off student data. The lessons provide the flexibility to ensure all students are working at their needs, which is terrific. The PD sessions are amazing and have helped us to become better mathematicians and teachers of maths across the primary school. We have completed the first two PD sessions and are looking forward to the third. Thank you for your time and expertise; we are very grateful.”

**Ms Eryn Wyatt  
Foundation Teacher and Numeracy Specialist  
Murrayville Community College**





Multiplication PL  
at Connolly PS  
in Perth (PLs in 2021,  
2022 and 2023)



# Feedback from schools:

“A highly engaging and inspiring maths PD day, full of hands-on learning with an abundance of activities to take back to our classrooms the very next day. All teachers and learning support officers learnt so much about place value on our day. Our Top Ten Maths presenter was incredibly fluent with her instruction, modelled tasks and book work expectations. She explained all activities clearly both at a student level as well as the pedagogy around the tasks.”

**Ms Jayne Brown, Numeracy Leader  
St John's Primary School Dennington**

“The presenter was outstanding. She kept our staff on track and made the day engaging. The range of activities and navigation through the resources was excellent. An outstanding introduction to the world of open-ended hands-on learning.”

**Mr Ben Zimmerle, Principal, Koo Wee Rup PS**

“There was never a moment when we were not engaged in watching a demonstration or completing an activity ourselves. All the staff loved and commented on what a great day and experience it was.”

**Mr Stewart Condie, Learning Specialist  
Toolern Vale and District PS**

# Hands-on Maths Workshops across Australia



Start of the PL developmental sequence sort – build a numeracy staircase for the big ideas focus for the day, Kellyville Ridge Public School (western Sydney), April 2022

# Feedback from schools:

○ "It was a pleasure to work with you! The very detailed and applicable Maths information was amazing. I know it is very suitable for my current and subsequent classrooms!"

**Natalie, K-2 Teacher, Marble Bar PS**

○ "The PD provided by Anna was outstanding. She has such a wealth of knowledge, was engaging, friendly, understood ramifications or issues for staff, answered questions really well, had fantastic activities and was just wonderful overall. So much so, I booked her for next year before she left. Highly recommend the PD. All our Junior teachers were really enthused and keen to use it more in their classroom. Just outstanding."

**Ms Jo-Anne Large, Deputy Principal,  
Rawlinson PS**



# Hands-on Maths Workshops across Australia

Teams enjoying  
pin the tail on  
the donkey  
number line  
challenge –  
Place Value  
focus at  
Mernda Park PS  
(north eastern  
Melbourne),  
March 2022



# Feedback from schools:

○ “The differentiation of each activity and connections to the real world! There was a huge range of hands on demonstrations – passionate, encouraging and exceptionally knowledgeable!”

## **Bertram PS Staff Feedback**

○ “I am slowly working my way through the resources - I am constantly amazed how hands-on and logical your program is - what a great learning experience for us teachers as well.”

**Julia, Flying Squad Teacher, based at  
Marble Bar PS at the time of the  
Professional Learning Workshop**

# Feedback from schools:

“I thoroughly enjoyed yesterday’s Top Ten PL. It was clearly evident that the presenter had a very deep knowledge of mathematics and the developmental sequence that children need to follow to understand a concept. I really loved learning more in that area. I felt I left with a good understanding of how to use the program and felt motivated and excited to do so! From EC point of view, it was so refreshing to see that the program had thought of playful ways for students to learn, incorporating ways to include movement in the outdoors. Anna was so creative and this coupled with her deep knowledge of mathematics really showed us a wonderful way to bring mathematics alive in our classroom. Brilliant!”

**Early Years Teacher, feedback passed on by  
Ms Annette Hansen, Principal,  
Pannawonica Primary School**

“Thank you for an awesome day of learning! Your workshop was informative, engaging and lots of fun! I loved all the games and activities, especially the way you level up to extend. I look forward to the day that I am as fluent as you in doing this. Thank you again for a great day.”

**Ms Nicole Snelleksz, Year 1 Teacher, The Basin PS**





Thank you so much for today, Anna. The team were really impressed by your knowledge and presentation. I really appreciate the support your business gave our team today. Our knowledge and understanding has grown as a result. Kind regards, Michelle

Professional Learning session delivered  
at the request of the Department of Education of Victoria  
for Regional School Improvement Leadership Teams (2022)

# Feedback from schools:

○ “Our F-2 teachers are loving the new early years package and use it consistently. The ability to link the data from assessments directly to units in that topic is amazing and means that teachers are providing maths experiences that are precisely at the point of need. The units make fantastic well-researched activities available to all teachers, especially graduates, returnees from family leave and tutors. Our results show that these students are building a very solid base in numeracy and we are excited about their future progress! The toolboxes are amazing and are used consistently.”

**Suzanne, Leading Teacher of Numeracy  
Yuille Park Community College**





Top Ten Mathematics at MANSW Pre-K to 8 Conference (2022)



# Feedback from schools:

○ “The session was fantastic and well received by all our staff. The PD is hands on and explores how to implement meaningful mathematics in more practical and engaging ways. Our staff are learning new strategies, to not only teach key areas, but to also incorporate students' interests to support their engagement.”

**Mr Jonathon Pereira, Maths Leader  
Berendale School**

○ “We all had a fantastic and inspiring time. Teachers remarked how much they enjoyed the session and the new ideas they walked away with. It is always a fantastic start to the new school year when teachers walk away recharged and looking forward to trying out new ideas and projects with their students.”

**Ms Mishael Peeradina, Deputy Principal,  
Rawlinson Primary School**

# Feedback from schools:

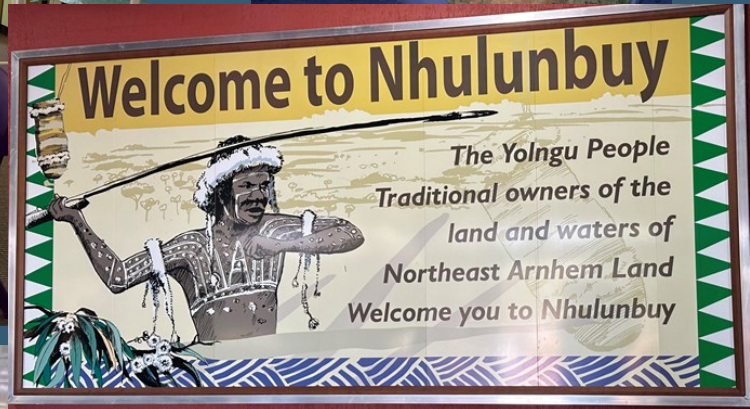
- “Highly practical as well as the modelling of effective practice – especially the setting up of rich tasks – strategic seating arrangements for students who require extra support/extension. Anna also modelled effective implementation of high yield strategies: setting goals and lesson structure, using worked samples, differentiation – challenge and stretch, explicit teaching and modelling, the idea of multiple exposures (mastery), questioning and feedback.”

**Ms Tracey Thomson, Principal  
Braeview PS**

- “Thank you so very much for your engaging PL! The feedback from teachers has been 100% positive with teachers feeling confident and supported with a deeper understanding. You demonstrated an incredible knowledge of maths and effectively explained your thinking to the teachers and SLSOs. Most teachers commented that it was the best PL they have participated in for a very long time.”

**Ms Stephanie Whalan, R/AP Curriculum &  
Instruction, Ballina Public School**





Delivering PL  
from Paraburdoo  
to Nhulunbuy  
to Russell Island  
and everywhere in between.



# Feedback from schools:

- “I absolutely loved your Top Ted PD at our school and appreciate the planning you helped us create. Today I did the first lesson and the students loved it. I know it will take some time to get into the swing of our new routines, but I just wanted to thank you for helping create some much needed change in the way we are teaching our students Mathematics.”

**Ms Natalie Perry, 1/2 Classroom Teacher,  
Nhulunbuy Primary School, Department of  
Education, Northern Territory**

# Feedback from schools:

○ “Anna was a dynamic presenter, who was inspiring! She delivered hands-on, practical lessons that we can take directly into the classroom. There is so much within this program and Anna made navigating the material so much easier, leaving us with more confidence to expertly select what we need, according to our role. We can't wait to get her back!”

**Ms Karen Serfontein**  
**Numeracy Leader and Kindergarten Teacher**  
**St Vincent's School Parmelia**

○ “I loved learning how to provide extension work (ext 1, ext2, ext 3) from the one simple activity. It was great to have a go at the activities and use the manipulatives, especially seeing how versatile they were. They could be used in any lesson! Differentiating was a key focus for us - teaching students different concepts in one lesson. Highly recommend to all schools!”

**Ms Angeline Singh, Classroom Teacher,**  
**Southern Cross PS**



Smiles and laughs should  
be part of every maths PL.





# Feedback from schools:

○ “The students are genuinely loving the activities, and so are the teachers. My favourite one so far has been the Castle activity. I actually got three lessons out of that one for our students last year!

During our number line focus using ‘pin the tail on the donkey,’ I could hear students saying sentences like, “Thirty-eight is closer to forty, so that is the closest ten number”. For EAL students, this is amazing. Their actual teacher (that I’m rolling out this program to) is very impressed too. She is repeating aspects of my lessons on the days that I am not modelling. I could talk all day about how this program is going at our school and how we are adapting it to meet the needs of our cohort of students!

After the PL, staff at our school gave positive feedback, particularly about the engaging, hands-on activities that they could implement in their classrooms straight away. You provided a range of new ideas to teach Number and Place Value, and you demonstrated how many ways to cater for support and extension students. This PL has provided a taste of the changes that are coming to our school with Maths.

Teachers are now enjoying sharing new ideas during our PLC meetings and discussing our data. Overall, this program has been excellent for our school.”

**Lorraine Batres, Learning Specialist and Maths Coordinator, Western English Language School, St Albans, Footscray and Braybrook Campuses**

# Hands-on Maths Workshops across Australia



How many materials we bring with us!  
Manipulatives for the Addition and Subtraction Workshop  
at Yuille Park Community College (Ballarat, Victoria), March  
2022 – Lucky this school had an excellent trolley!



# Hands-on Maths Workshops across Australia



How many materials we bring with us!  
Some of the manipulatives for three days of intensive PL  
at Herberton State School, two hours from Cairns  
(January 2022)



# Feedback from schools:

○ “As a special school, it can be challenging to find resources and professional learning that meets our needs without having to make our own modifications, however I can highly recommend Top Ten! The hands-on nature of their resources and lesson plans promotes high levels of student engagement in maths. The professional learning provided was extremely well suited to our cohort. The facilitator, Anna, ensured that she had tailored the day to incorporate all the levels on which our students are working on, including pre foundation. We have had overwhelmingly positive feedback from all our teachers who believe that they are now much better prepared to plan, teach and assess maths for all students in their class thanks to Top Ten.”

**Ms Kelly Botha, Assistant Principal  
Warringa Park School**

○ “Thank you for a brilliant day of Maths. We loved it and I am getting a great deal of positive feedback from other teachers. The professional development you delivered was engaging, practical and immediately useful. We felt the benefits of your passion and deep knowledge of Maths!”

**Bridget White, Maths Leader and Classroom  
Teacher, Leschenault Catholic Primary School**

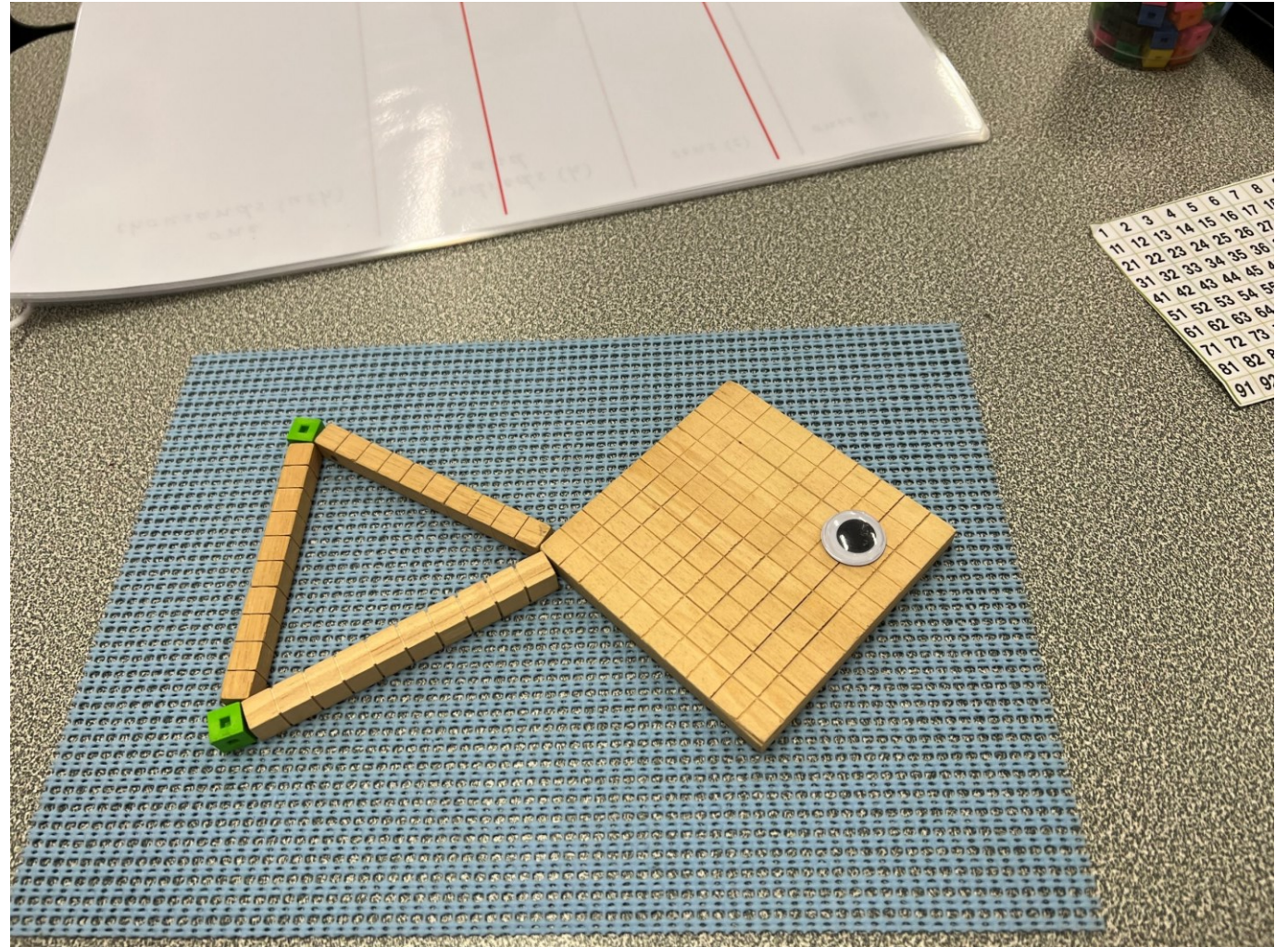
# Hands-on Maths Workshops across Australia



Multiplication and Division PL for Underbool PS and  
Murrayville Community College (near Mildura, Victoria),  
May 2022



# Hands-on Maths Workshops across Australia



Place Value Fish created by a staff member  
at Braeview PS (30 mins from Adelaide), May 2022



# Feedback from schools:

○ “Thank you so much for these amazing resources. Yesterday was so beneficial and we all walked away eager to get back into our classrooms to continue to implement these great resources in our rooms.”

**Ms Tori Bennett, 3B11 Classroom Teacher  
Tamworth South Public School**

○ “I thoroughly enjoyed your PD on Monday at Mirriposa PS. It was engaging, you are a great presenter, very personable and so knowledgeable, always challenging us to think. The day flew and it created great talk amongst us today about how to use these resources to support our Maths PLCs for the future.”

**Geraldine, Literacy Specialist  
Mirriposa PS**

○ “Our staff raved about the PL provided and the depth and breadth of program connecting with our students at their point of need.”

**Corrine Taurima-Isaako, Maths Leader and  
Classroom Teacher  
Eastern Goldfields ESC**

# Hands-on Maths Workshops across Australia



Ready to roll – Place Value PL set to start



# Hands-on Maths Workshops across Australia



Kananook PS – Three workshops over three years (Place Value, Addition and Subtraction, Multiplication and Division)

“Our results are showing that students are tracking more at-level on pre-tests, so we can start at a higher level than in previous years. This is a direct result of the hands-on planning packs.”

**Ms Martene Matthews, Teaching and Learning Specialist**  
**Kananook PS, March 2022**

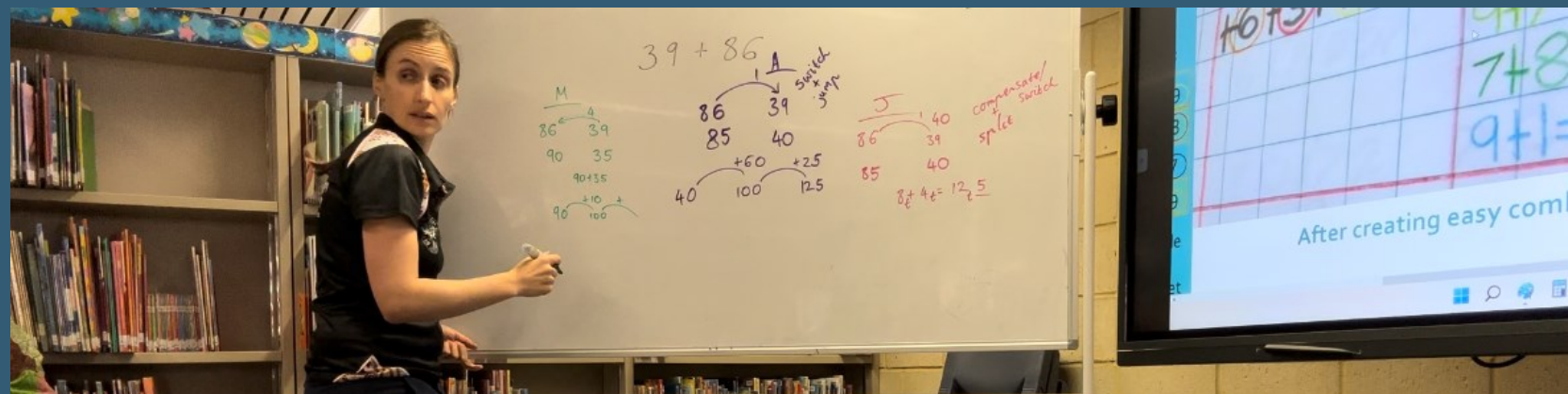
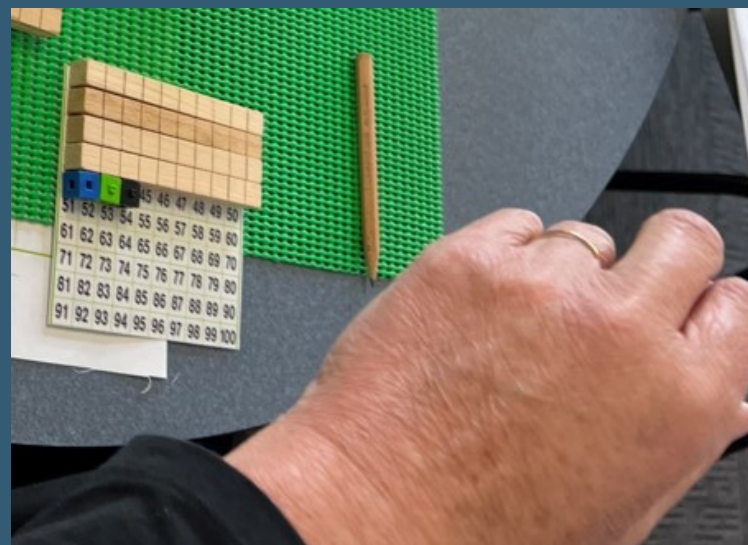


# Hands-on Maths Workshops across Australia



Maida Vale PS (Perth), May 2021





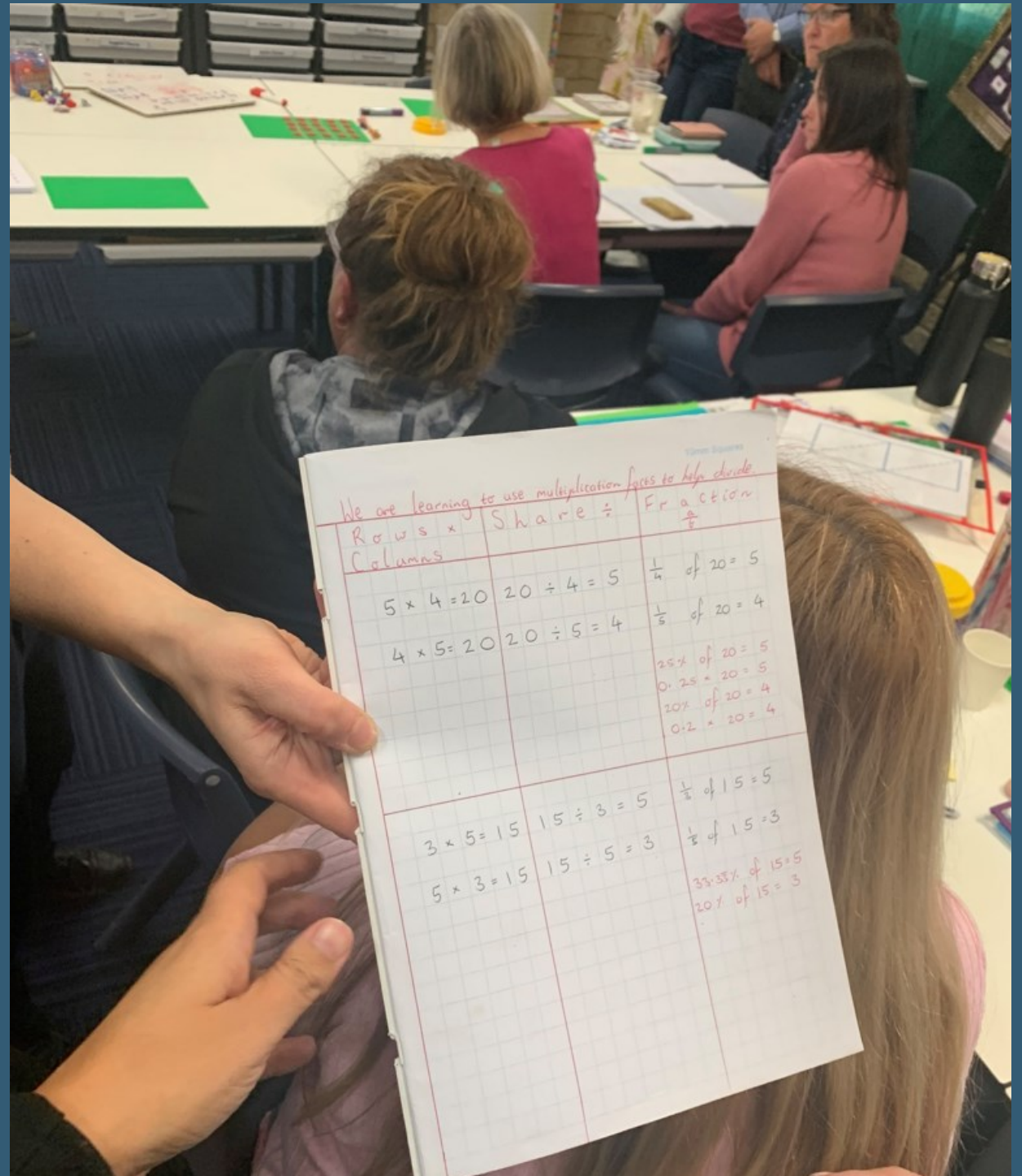
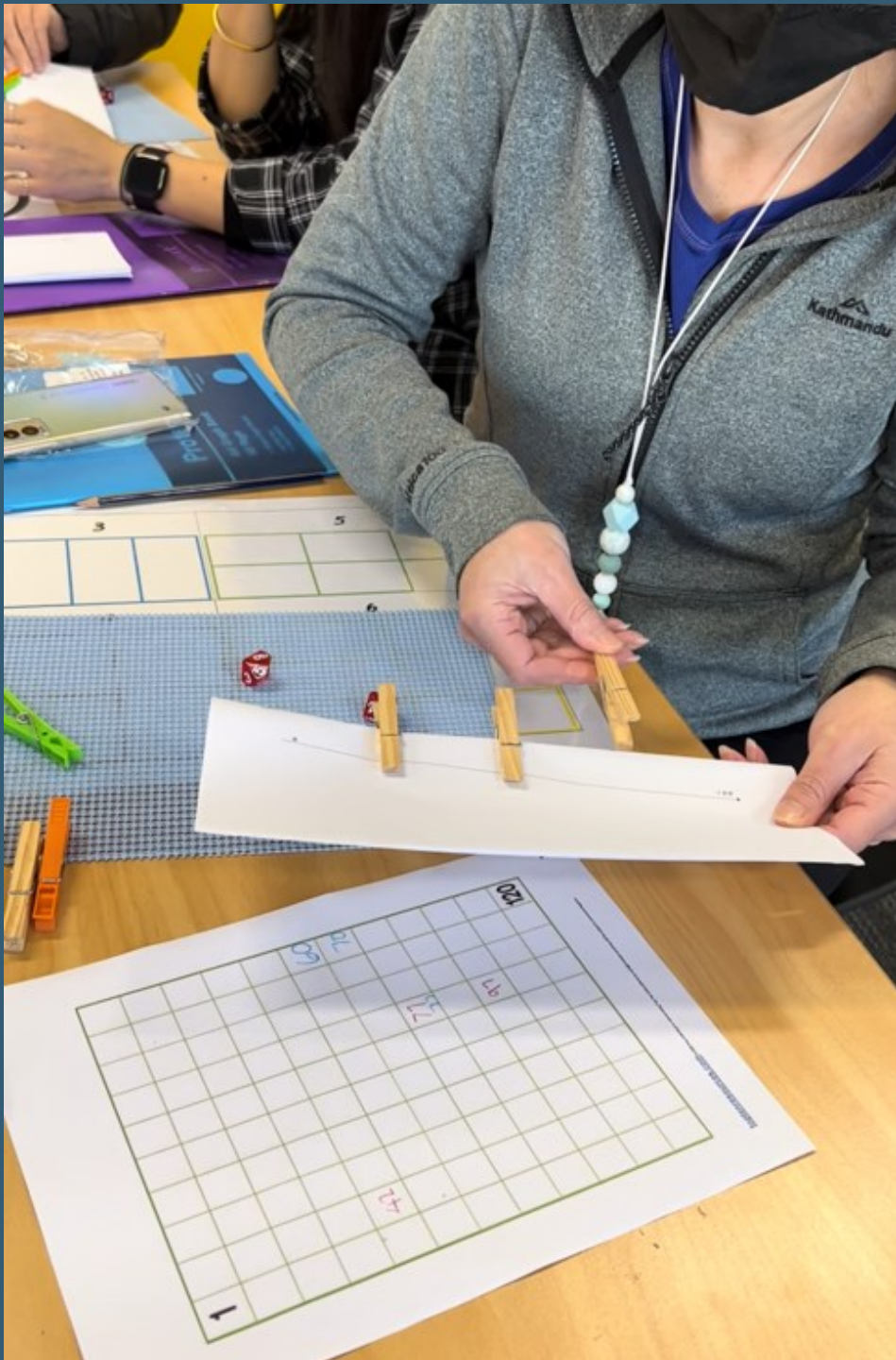
Number Talks at West Northam PS (2022)





Top Ten at the Mathematical Association of New South Wales Pre-K to 8 Conference (2022)









Classics and new creative lessons – The old-time classic of *One is a Snail, Ten is a Crab*, and our creative new lesson of surfing dogs for equal groups based on a real-life surf dogs meet that is held annually.

# About us

- Top Ten was founded and is entirely owned by Australian primary school teachers, not programmers or IT graduates. All units were created, then tried-and-tested in Australian classrooms for over ten years (2006 to present). Our hands-on maths packs have been used by non-pilot primary schools since 2016.
- Our program is dedicated to bringing the power and joy of materials-based mathematics to life in every Australian classroom and to make engaging, high-impact mathematics instruction achievable for every Australian teacher.



# How Top Ten is different to other approaches to numeracy instruction

- Top Ten teaches maths using a hands-on approach, not worksheets or click-answer technologies. We take primary maths back to its origins – back to materials.
- While we often use technology (YouTube clips, interactive games, links to students' interests) as engaging hooks to tune-in students, the critical mathematical skills are established through explicit teacher modelling (fishbowls with materials) and with students using manipulatives to develop conceptions and efficient strategies.
- All units are developmentally-sequenced, taking teachers and students on a journey through the big ideas of mathematics.
- Top Ten diagnostic assessments are paper-based, focusing on strategies, not just answers. These then pinpoint developmental gaps using spreadsheets that calculate points-of-need, gaps, growth and value-add before and after each unit. Formative assessments are embedded and linked to all units as the most valuable tool.
- While all lessons and units are developmentally-sequenced and directly aligned to the Australian and each state's curriculum, our units go beyond what to teach and support teachers on a day-by-day basis with how to teach.

# Hands-on Maths Pack inclusions

To maximise each teacher's time, our sequential units and rich tasks include:

- Photographs of numeracy leaders' classroom modelling, lessons in action in real classrooms and detailed student work samples.
- Warm-ups and engaging hooks.
- Sequential learning intentions and relevant maths vocabulary for every session.
- Pre-planned enabling and extending prompts to cater for the wide range of abilities that exists in any classroom, with extension and support built into every rich task.
- Diagnostic and formative assessments that pinpoint points-of-need, developmental gaps, calculate growth and track impact for targeted teaching.



# Curriculum day workshops are exclusively available to member schools that have access to our current planning packages

New Early Years Package and Years 3-6 Pack

Please email [member@toptenresources.com](mailto:member@toptenresources.com) to  
request a quote and discuss preferred dates.

# Thank you for your time

More information and sample packs for schools that do not already have our planning packages: [www.toptenresources.com](http://www.toptenresources.com), early years and years 3-6 packs

Enquiries or questions from member schools: [member@toptenresources.com](mailto:member@toptenresources.com)

Enquiries or questions from non-member schools: [maths@toptenresources.com](mailto:maths@toptenresources.com)

For more information on our professional learning workshops or to enquire about potential dates, please send an email or visit our website and click on the 'PL' tab.