

Acknowledgement of Country

We acknowledge the Wurundjeri people of the Kulin Nation, as the traditional custodians of the lands on which we meet today.

We pay respect to Elders past and present, and to all First Nations people recognising them as the original and ongoing custodians of this land, which was never ceded.

We respect our First Nations peoples as the first teachers of mathematics who continue to teach us by connecting with, respecting and caring for people and country.



Engaging Intervention

In this session we will share what we have been doing at Westall Primary School to create a safe, engaging and rich experience for our students in Tier 2 intervention. Students love coming to these sessions, ask to come along to extra sessions and even ask to stay in during their breaks to finish off their work. In this session we will look at the steps we took to create this culture and will share resources that you could use in your own school setting.

What would you like to get out of today's session?

Warm Up Activity

Draw a picture or write a metaphor about how maths makes you feel.

Intervention programs

- Does your school currently have an intervention program?
- What are the benefits and limitations of this program?

Extending Mathematical Understanding (EMU) – Early Years (Prep to Year 2) or (3-6)

- Research based
- To train a teacher costs \$2950 and is 6 full days
- Lots of resources used

https://www.monash.edu/education/professional-continuing-education/numeracy/emu-teacher-course-prep-year2

Bond Blocks

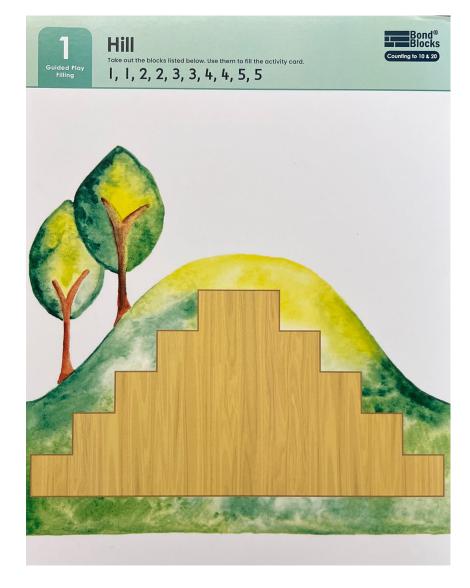
- Research based
- Recorded training sessions
- Recordings of activities
- For the early years



https://bondblocks.com/

BB-Exploratory Play and Guided Play





person to use the blocks.

5. Show students where the box of blocks live in the

classroom and how to return it with the **sticker face up** and the **handle out**. This makes it easier for the next

box includes numbers

the correct places.

ind lines to help students

lace the blocks away in





How were students selected?

 All funded students and students who are two or more years behind are seen for Literacy and Mathematics intervention.

How will we select students in 2025?

	Literacy Intervention	Numeracy Intervention
Term 1 (starting week 2) (swimming week 9 and 10)	Gr 1/2 red zone students (including funded students)	Gr 3/4 and Gr 5/6 red zone students (including funded students)
Term 2	Gr 3/4 and Gr 5/6 red zone students(including funded students)	Gr Preps and 1/2 red zone students (including funded students)
Term 3	Gr Preps red zone students(including funded students)	3/4 and 5/6 red zone and funded students
Term 4	3/4 and 5/6 red zone and funded students	Gr Prep, 1/2 red zone kid and funded students

What assessment did you use?

- We originally used a mix of the Assessment for Common Misunderstandings and the Maths Online Interview.
- We then moved on to using Dr Ange Rogers Pre PVAT test and her fluency screeners and the Bond Blocks screeners.

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https://www.numeracyteachersacademy.com/

https://www.education.vic.gov.au/school/teachers/teachingresources/discipline/maths/assessment/Pages/misunderstandings.aspx https://www.education.vic.gov.au/school/teachers/teachingresources/discipline/maths/assessment/Pages/mathsassess.aspx

Bond Blocks Screeners

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		1) Counting Activity			2) Bonds of 5	3) Double and Halve to 1	4) Five Plus Bonds		5) Bonds of 10					6) Bonds of 6, 7, 8, 9			7) Ten Plus Bonds			8) Double and Halve to 2				9) Bonds of 11 to 20
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What assessments will we use in 2025?

 PVAT tests in 3-6 to be completed in first week of school as a screener. Pre-PVAT (1-2) and Bond Blocks (Foundation) screeners to be used in week 9 of Term 1.

Above tests and fluency screeners (NTA) for TLI teacher to drill down on specific skills to target

How were lessons structured?

- Fluency games were used regularly.
- New content was explicitly taught. (content was selected from pretesting).
- Students worked in groups on problem solving tasks.
- Thinking Classroom Strategies were used e.g. NPVS, random grouping, cold calling

https://drpaulswan.com.au/resources/games/

https://www.mathematicshub.edu.au/understanding-maths/professional-learning/explicit-teaching-in-maths/https://www.mav.vic.edu.au/ccms.r?pageid=57&tenid=MAV&NavCMD=Nextpage%7C2&ROXY=0x000000003295310&DISPMODE=Feature



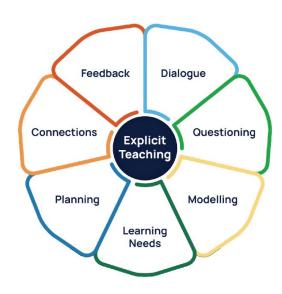
Explicit Teaching – Number Talks

- How would you work out the answer to 9 + 3?
 Share what you did with the person next to you
- How would you work out the answer to 9 + 7?

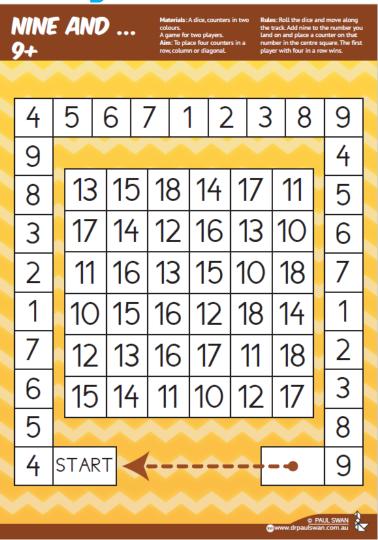
Share what you did with the person next to you







Fluency Games



Build to Ten 9 +

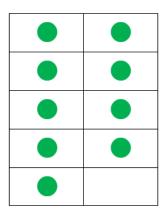
Aim: To be the first player to place 4 counters, next to each other, in a row, column or diagonally.

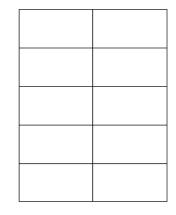
Materials: 1 ten-sided dice (0-9) and 2x20 counters (in two different colours)

Directions: Players take turns to roll the dice and add the number rolled to the number 7. They then place a counter on their total. The first player with 4 counters in a row wins.

Note: Use double tens frames below to build total as needed.

11	9	14	16	10
14	13	18	13	11
16	17	12	15	12
18	15	11	9	13
17	9	16	10	14





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Make 37

Five bags contain a large number of 1s, 3s, 5s and 7s. and 9s



Work with a partner.

Take it in turns to pick a number from any bag to create a running total. The winner is the person who gets the total 37.

https://nrich.maths.org/problems/make-37



Tracking Students

Ten more (bridging)		properties of odd ar		ten more extended		100 more		difference		ordering decimal nu		ordering decimal nu	
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Creating a safe environment

Relationships are critical

Turn and talk before group share.

Saying 'great question'

Letting students know when I'm unsure

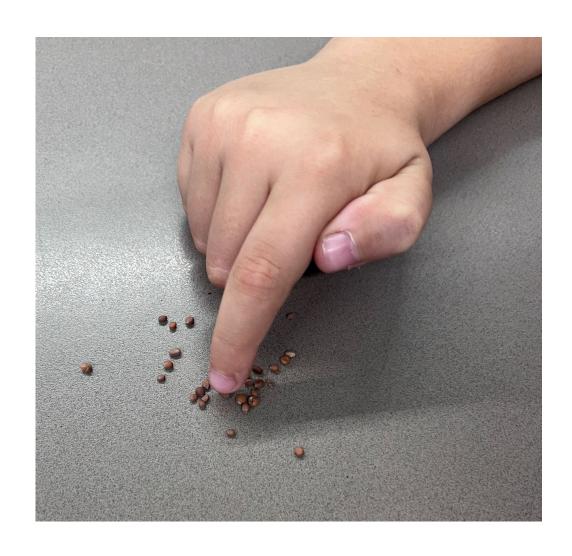
White board use and classroom routines

Building in success

Being flexible

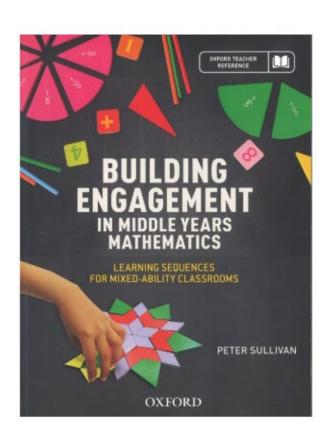


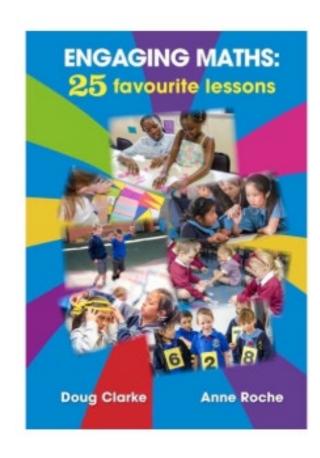
Tapping into students' interests





Engagement matters!









https://www.mav.vic.edu.au/MAV-Shop

https://resolve.edu.au/teaching-sequences

https://nrich.maths.org/

Resources

- <u>s://www.mathematicshub.edu.au/understanding-maths/professional-learning/explicit-teaching-in-maths/</u>
- https://www.vic.gov.au/diverse-learners-hub
- https://www.deafeducation.vic.edu.au/professional-learning/catalogue
- https://omny.fm/shows/strategies-for-explicit-teaching/ep02-student-learning-needs
- https://drpaulswan.com.au/resources/games/
- https://www.mav.vic.edu.au/MAV-Shop
- https://resolve.edu.au/teaching-sequences
- https://nrich.maths.org/

Questions?

What are your take aways?

 What's something you can take back to your school from today's session?

What resource/s would you like to learn more about?





Event App



App Download Instructions

Step 1: Download the App 'Arinex One' from the App Store or Google Play





Google Play

- Step 2: Enter Event Code: mav
- Step 3: Enter the email you registered with
- Step 4: Enter the Passcode you receive via email and click 'Verify'. Please be sure to check your Junk Mail for the email, or see the Registration Desk if you require further assistance.





