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Being A Professional Maths Teacher

Jen Bowden & Ellen Corovic

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Number Chant (warm up)



8	9	6	7	8	3	4	7	1	7
6	2	9	5	0	2	5	8	3	8
3	8	5	9	1	8	4	9	2	7
2	7	4	8	9	4	9	4	5	7
1	4	4	7	8	0	4	6	7	9
4	6	8	3	9	5	1	8	4	7
3	3	8	3	8	5	9	2	8	9
3	6	9	5	7	4	8	5	8	5
4	5	6	3	7	8	7	8	9	0

Being A Professional Maths Teacher: pedagogy, planning and practice



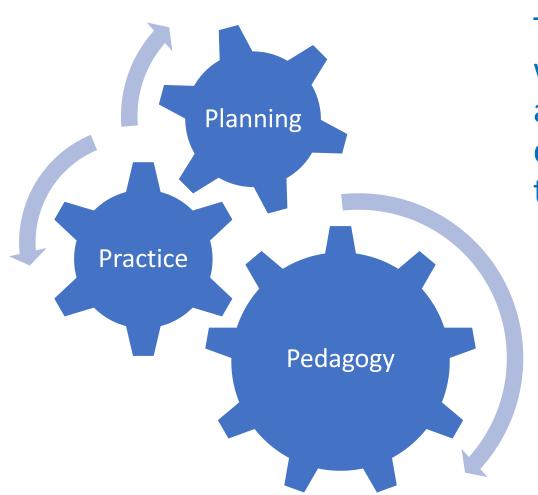
Launch

- What does it mean to be a professional maths teacher?
- How can we juggle pedagogy, planning and practice?
- How can you be a proficient ring master in the circus that is a school?



Personal Professional Experience





Through our professional experiences we have found that most calls for assistance come down to knowing, developing and understanding these three elements.

Visualising a circus



Draw what you see...

- How is it held up? What supports do you see? What materials are being used?
- What else can you see around? Ticket booths? Popcorn stands?
- What would you see when the show starts? Whose involved?
 What are they doing?

Explore



What shapes can you identify and label?

Enabling prompt

• Find all of the squares that you drew

Extending prompt

• Classify the shapes that you found.



What elements of your drawing could be related to

- Pedagogy,
- Planning and or,
- Practice.





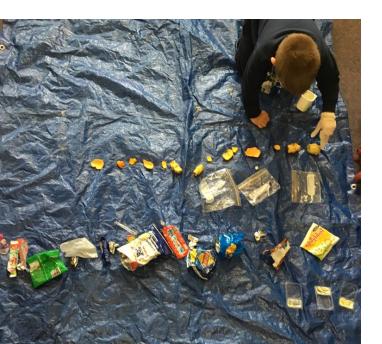
What is best?



• "Ongoing debate about what makes good mathematics instructions" (Hattie 2016).



- Use research informed strategies
 John Hattie
- Research based principals
 Stephen Dinham
- 'critical consumers of research'



Be a professional learner!

Our tips



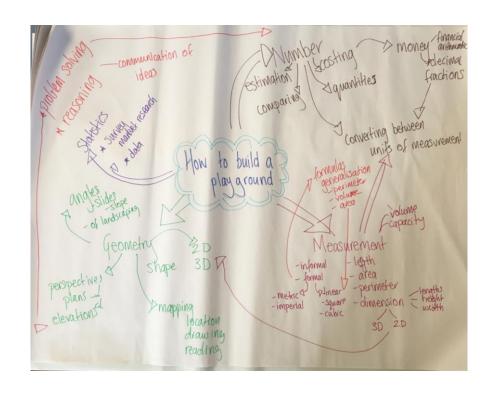
- Develop whole school approaches
- Try something, stick to it and measure the outcome
- Don't jump around introducing new concepts/approaches every two minutes

- Get all teachers on board with change
- Osmosis
- Teachers to take responsibility

Planning



• The things you don't see



- Scaffolding and threading lessons
- Collecting and analysing data
- Data informing judgements
- Quality resources
- Teacher discourse
- Professional reading

Our tips



- Structure timing so that it happens
- Focus on student based data
- Time management in meetings
- Focus on the important stuff

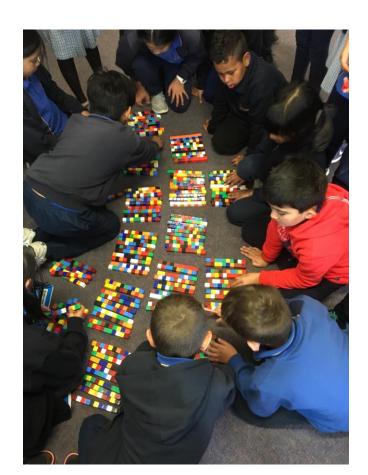
- Share responsibilities
- Know your strengths
- Be flexible
- Record your planning in a centralised location

Build a culture of trust collective responsibility

Practice



What do you see happening?



- Lesson structure
 - Launch, Explore, Summarise
- Hook engaging students
- Teacher and student interacting
- Student discussions
- Questioning and testing
- Peer learning
- Differentiation
- Teacher as a facilitator

Our tips



- Enjoy teaching
- Share your passion (even if you have to fake it!)
- Share the load
- Take photos and videos to record
- Be organised with assessment
- Woke smarter not harder

• Celebrate all achievements that you, your students or team make

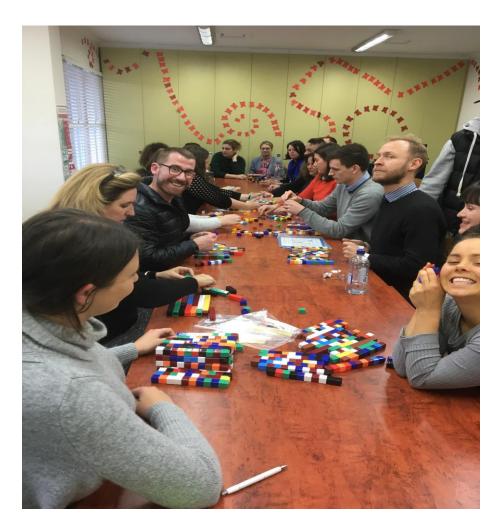


Practice being professional



Professional beyond your school

- Community and parent partnerships
- Professional networks
- Presenting at conferences
- Writing in journals
- Share your story
- Association membership
- ATISL Standards



Pedagogy



Forming the structure of the tent



- Knowing how students learn
- Developmental sequences
- Whole school approaches
- Shared knowledge
- Collaborative learners

Summary



• https://www.youtube.com/watch?v=C6c-bCSSKMo



Review







Questions & Celebrations

