

23 July 2020

AAMT webinars

When: Thursday, August 6

Title: Targeted Teaching



The Growing Mathematically project for teaching multiplicative thinking skills provides teachers with assessment booklets, a Learning and Assessment Framework (LAF) and targeted teaching resources. Teachers conduct the assessment with their students. The results are converted to a zone in the LAF for multiplicative thinking. Armed with this information, teachers can use the targeted teaching interventions to focus their teaching at the right level for the students. This is a powerful and evidence-based way to improve the multiplicative skills of students. In the webinar we will discuss the strategies and practices of using targeted teaching interventions for multiplicative thinking skills.

Register [here](#)

When: Wednesday August 12

Title: Using data to improve mathematics outcomes

Research indicates that using data can improve mathematics outcomes. In this webinar the range of data available to teachers and schools will be considered and ways of using these data sensibly and appropriately will be explored.

Register [here](#)

AAMT is organising some more international webinars for August and September. Please keep informed via the [AAMT website](#) or Twitter.

Give a webinar as a professional learning activity

The aim of the AAMT webinar series is to facilitate the sharing of good teaching practices and innovations. AAMT would like to hear from anyone with expertise or experience that they would like to share with other teachers. Please contact Duncan at drayner@amt.edu.au

International initiatives

AAMT is working with some schools overseas to arrange joint online maths lessons. If anyone may be interested in exchanging a maths lesson by video with a teacher in China or Singapore, please get in touch. Students will need to be familiar with using the Zoom platform.

We have also been in touch with MEI in the UK. Working with MEI, we are exploring opportunities to make available an online data science course for senior students (<https://mei.org.uk/data-science>) and some resources for senior mathematics (<https://integralmaths.org>). While the Integral course is primarily aimed at the UK AS / A levels, it is presented as a series of modules on different topics (for example, problem solving, surds and indices, quadratics, binomials, calculus, exponentials and logarithms, vectors, and many more).

For information on the above, contact Duncan at drayner@aamt.edu.au

Let's Count Parent Maths Bot

Children's education charity, The Smith Family, has launched a new learning tool on Facebook Messenger to help children with their maths skills.



The *Let's Count* Parent bot on Facebook Messenger is an interactive platform that uses everyday activities and objects to suggest ways in which parents and carers can support their children's maths learning. The program, designed for children aged three to five, includes activities like counting steps, ordering fruit by weight and comparing street signs whilst out and about.

The *Let's Count* program was launched in 2009 and has helped over 122,000 children across the country with their maths skills. The Smith Family is now hoping thousands more will be reached through the free, accessible, and easy to use Facebook Messenger tool.

View the [small film clip](#) of the Messenger Bot. See also

<https://www.thesmithfamily.com.au/programs/numeracy/lets-count>

Take the Storytime Pledge and inspire young scientists

Australia's Chief Scientist, Dr Alan Finkel, has launched a national Storytime Pledge campaign to encourage young students to read more. For further information, see [here](#)

World-wide free access to DQME

Free access has been granted to an enormous resource of 4650 original maths problems/worksheets/applications. These are very stimulating resources developed and written by teachers, and tested in schools in 11 countries in 10 languages over the six year period that the EU funded the DQME Projects I and II.

The materials are classified in topics, age group and language and you can download them and freely use them in your classes immediately!

How it works:

- Enter the webpage <https://directorymathsed.net/dqme/>
 - Read the Data Privacy Policy carefully and then click on the Accept button
 - Click on your country-language flag on the next page with all 11 countries' flags
 - Click *Register Now* and fill in and *Submit* your details
 - Click on *Material* to see the full list of maths problems/worksheets/applications in your language
 - Use your email address and password to log in again in future.
-

Cambridge resources

Espressos (<https://www.cambridgemaths.org/espresso/>) are high quality short research summaries designed for maths teachers. There are more than 30 research snippets available for free. They interpret education research through a classroom lens. Additionally, the Cambridge Mathematical Salad (<https://www.cambridgemaths.org/blogs/>) are our blogs that cover such topics as teaching ideas, interviews, and examples of maths in the wider world.

NSW Events

Patterns and Place Value in the K-3 Classroom

When: 4 August 2020 4:00 PM -6:00 PM

Where: Online via Zoom

Cost: \$82 members; \$122 non-members

In the Patterns and Place Value in the K-3 Classroom Online course, delivered through Zoom, participants will explore current research and concentrate on important mathematical concepts, or 'big ideas', and the knowledge and skills that go with those concepts.



Teachers will review work samples from research on lesson sequences around mathematical 'big ideas' and focus on problem solving provide cohesive learning opportunities that allow students to explore the concepts of patterns and place value in the K-3 classroom or online, in depth. The content and pedagogical approaches in this course have been created to assist teachers working in an online environment to implement effective teaching and learning practices.

By looking at work samples taken from Australian research from Joanne Mulligan and Angela Rodgers, teachers will investigate and discuss initial understandings, recognise and identify progression of concepts and review and innovate or design some resources that are relevant to supporting skills in the areas of patterns and place value.

Registration at: <https://www.mansw.nsw.edu.au/events>

Number Strategies and Interventions for K-6 Mathematics



When: 5 August 2020 4:00 PM -6:00 PM

Where: Online via Zoom

Cost: \$82 members; \$122 non-members

This 2 hour online course, Number Strategies and Interventions for K-6 Mathematics, will develop a deeper knowledge of strategies and skills to effectively assess student understanding throughout instruction in order to intervene successfully to help all learners achieve online and classroom objectives. The content and pedagogical approaches in this course have been created to assist teachers working in an online environment to implement effective teaching and learning practices.

Registration at: <https://www.mansw.nsw.edu.au/events>

WA Event

Classroom Corner

When: 10 August 2020 4:00PM - 5:15PM

Where: Online via Zoom

Cost: FREE members and \$20 non-members

Problem solving is one of the mathematics proficiencies. Do we teach problem solving strategies explicitly or teach through a problem solving approach? How important is mathematical language to problem solving? Can problem solving be differentiated easily? During this workshop you will have the opportunity to explore these questions and reflect upon your practices. There will be

multiple hands-on activities for participants to try and take away. Electronic copies of activities and instructions will be provided to all participants.

Registration at <https://mawainc.org.au/>

SA Event

Calculus concepts and calculators with Barry Kissane

When: 6th August 4pm

Where: Online via Zoom

Cost: \$15 for each one-hour

Have your graphics calculator handy for the session. Barry will use a Casio model

Sound learning of the calculus requires students to understand a number of key concepts, such as rate of change, derivative function, limit and convergence. Graphics calculators offer many opportunities to help students engage with these sorts of concepts; we will explore some of these opportunities in this hands-on workshop.

This is the first of 6 sessions being offered in this online series. See the [information sheet and registration form](#)

Specialist Maths with Deb Woodard-Knight

When: 6th August 5pm

Where: Online via Zoom

Cost: \$15 Each one-hour session

This is a repeat of the session on teaching tips held at the MASA Year 12 Conference night in February. Techniques and tips on the teaching of Specialist Maths will be discussed and, hopefully, the session will also promote open discussion with others sharing ideas.

This is the second session in this 6 session series. Book for just one, or as many as interest you. Certificates of attendance will be issued.

For information and registration - [click here](#)

Re-imagining maths teaching and learning

Join Fiona Thomas, a teacher from Texthelp's AsiaPac team, as she guides you through key strategies for successful maths teaching and learning in today's changing education climate.

[Register now](#) for a webinar focusing on 're-imagining maths teaching and learning'.

We know how hard educators work everyday to support their students. As a thank you for your time and effort, we have made EquatIO FREE for teachers! This means you can get a

premium subscription our products for free - helping you to maximise outcomes for all learners whilst balancing your busy workload. [Sign up today.](#)

The Maths Show or The Maths and Sport Show.

Bounce back in Semester 2 with a live maths show

Perfect for a Maths Week or Maths Day activity

If you are looking for **something fun and different** to do in maths, then why not try a live performance as a unique maths incursion?

Our shows **boost student engagement and interest in maths** by combining the wonder, power and beauty of maths with live entertainment and performance.

Choose from either [The Maths Show](#) or [The Maths and Sport Show](#).

Our shows are suitable for Junior Secondary and Primary students, with tailored versions for different ages.

Our productions have been adapted for COVID Safe live delivery and are available nationwide with performers based in NSW, Victoria, Western Australia and Queensland.

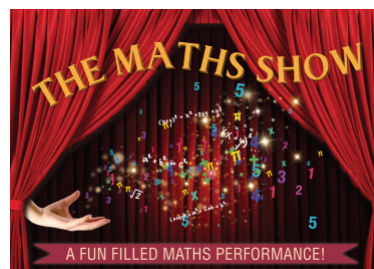
We are proudly sponsored by MAV, MANSW, MASA and MAWA with discounts available for member schools.

To find out more, contact Felstead Education today:

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Please note we have had an outage with our book ordering system. To be sure that your order is processed, please also email your book requests to us at sales@aamt.edu.au

[featured resource] Engaging Maths: 25 Favourite Lessons 2nd Edition

Doug Clarke, Anne Roche

This full-colour volume aims to enrich the mathematical experiences of primary school students (and their teachers) through enjoyable, challenging and active lessons. Why not explore grid coordinates and compass directions through a piratical 'Treasure Island' map, or introduce simulation

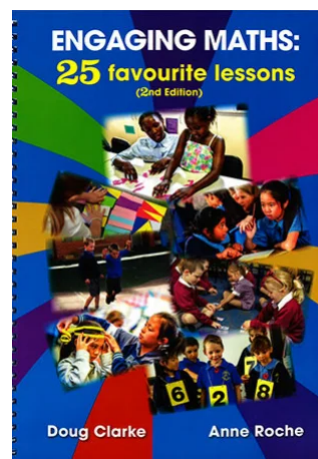
through a 'Throwing the globe' activity, or play a few rounds of 'Colour in decimats'?

Each lesson follows a similar pattern, beginning with an engaging 'hook'. There are clear instructions, interesting professional musings (including highlighting common misconceptions) and ideas for pulling the lesson together at the end. The lessons are complete, with reproducible activity sheets and further professional references. Reflections from the authors highlight some of the key pedagogical aspects and assessment potential.

Engaging maths, indeed!

#CLA002 \$61.00 AAMT members \$48.80

<https://aamt.edu.au/Webshop/Entire-catalogue/Engaging-Maths-25-Favourite-Lessons-2nd-Edition>



Check the Clues

Paul Swan, David Dunstan

Based on Polya's four step approach to problem solving, students work cooperatively in groups of four to solve mathematical problems, considering different written clues and then finding the correct solution through elimination.

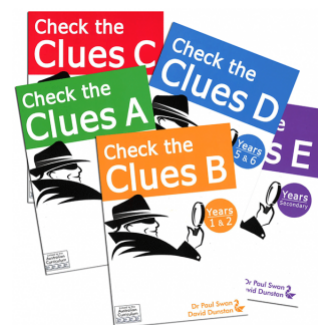
The activities cover all three strands of the *Australian Curriculum: Mathematics* and consolidate understanding of mathematical concepts, promote logical thought processes, incorporate literacy skills and encourage cooperation.

Answers and teacher notes are provided.

Now in five volumes covering pre-primary through to secondary.

Mix and match a selection of three titles to suit your students:

- [Check the Clues A](#) (for Pre-Primary)
- [Check the Clues B](#) (for Years 1 and 2),
- [Check the Clues C](#) (for Years 3 and 4),
- [Check the Clues D](#) (for Years 5 and 6),
- [Check the Clues E](#) (for secondary students).



#SWA661 \$102.50 AAMT members \$82.00 bundle of any 3

\$35.75 AAMT members \$28.60 each

While stock lasts!

<https://aamt.edu.au/Webshop/Entire-catalogue/Check-the-Clues-bundle-Any-three-books>

Download a complete PDF catalogue of resources sold by AAMT
from www.aamt.edu.au/Webshop/Catalogue.

Other news

The articles below were posted to AAMT's Facebook and LinkedIn pages and Twitter feed, and link to various sites:

[Numeracy at home](#)

[Can maths apps add value to learning?](#)

[Becoming a better teacher from my computer](#)

[Strategies for returning to the maths classroom](#)

[Maths teacher takes out PM's top science prize, with help from her dogs](#)

[Stop Calculating And Start Teaching Computational Thinking](#)

[Solving the problem of improving mathematics in Australia starts in the early years](#)

[Ratio activities to engage mathematics students](#)

[Math@Distance: Distance Mathematics Teaching During COVID-19 Lockdown](#)

[Mathematics faculty use technology to gauge students' needs](#)

[hometopics Pure math takes PhD across the world](#)

[The Mathematics Behind AI](#)

[Struggling with maths offers benefits](#)

[Australian teachers embrace student struggle in maths: study](#)

[Solving the problem of improving mathematics in Australia starts in the early years](#)

[Strengthening maths teaching in Australian schools](#)

[New maths school targeting underrepresented groups to be developed by Imperial](#)

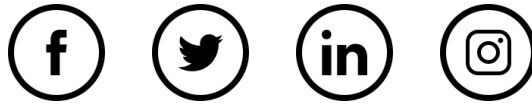
[The Works creates bot for The Smith Family to help preschoolers learn maths](#)

[Math Genius Has Come Up With a Wildly Simple New Way to Solve Quadratic Equations](#)

[Struggling with maths offers benefits](#)

[Where will the English and maths 'gaps' be for Year 7s?](#)

Connect with AAMT on social networks for more links to online news, tools and tips!



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