

18 June 2020

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## AAMT webinars

The next AAMT webinar *Multiplicative Thinking* will take place on Wednesday July 1 at 7pm. The webinar will be given by Professor Di Siemon and her colleagues. We will discuss learning progressions, formative assessment and targeted teaching interventions. The webinar is connected to the [Growing Mathematically](#) project.



For further information and registration please see <https://aamt.edu.au/Webinar-2020>

### **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](mailto:drayner@amt.edu.au)

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## National Mathematics Summer School

The NMSS will take place at the ANU from 10-23 January, 2021. For further information, see [here](#).

### **Director for the NMSS**

The Management Board of the NMSS is seeking to appoint a Director to lead the School for the next cycle 2022-2024. For further information, see [here](#).

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## 2020 Queen's Birthday Honours

AAMT would like to congratulate Associate Professor Rosemary Callingham of the University of Tasmania for the award of Member of the Order of Australia in the 2020 Queen's Birthday Honours

Rosemary has an extensive research and teaching background in mathematics education in Australia. Internationally she has worked in Hong Kong and with UNICEF in North Korea. She is an acknowledged expert at using Rasch measurement techniques and has collaborated with some of the top specialists in this field. Her specific research interests include teachers' pedagogical content knowledge, statistical literacy, mental computation, and assessment of mathematics and numeracy. Rosemary has written a number of books to support maths teaching in primary schools.

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## 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.](#)

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## Mathematical Mindsets webinar with Prof. Jo Boaler

**When:** 24 July 1pm AEST

**Speaker:** Professor Jo Boaler, Stanford Graduate School of Education

**Title:** Mathematical Mindsets

**Registration**

<https://www.eventbrite.com.au/e/mathematical-mindsets-with-prof-jo-boaler-tickets-105742637074>

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## QUT: Primary STEM Activities



Professor Lyn English of the Queensland University of Technology has published an interesting range of STEM activities for primary school learners. Please see <https://research.qut.edu.au/stemforschools/>

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## NSW Events

### Differentiation with Challenging Tasks in the K-6 Mathematics Classroom

**When:** 30 June 2020

**Where:** Online via Zoom

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

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. This 2 hour online course, 'Differentiation with Challenging Tasks in the K - 6 Mathematics Classroom', will pull out the research for teachers to explore the key elements of differentiation and how they can be applied to teaching, learning and assessment strategies in an online environment within K-6 mathematics.

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

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## WA Event

### How Does Dialogue Lead To Challenge In The Pp – Year 7 Classroom?

**When:** 10 July 2020 10:00 AM - 11:00 AM

**Where:** Online via Zoom

**Cost:** MAWA Members – \$25

MAWA Student Members – \$10

Non-members – \$50

This webinar will explore skills and techniques for enhancing dialogue in your classroom/context. It is our professional skill, as educators to facilitate learners to engage in dialogue which allows us to engage in feedback, guidance and to raise challenge with our students. This session will explore a range of tools that develop mathematical reasoning in your classroom or context.

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

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## SA Event

### The Big Ideas in Number (Continued) online series

**When:** 1 Jul 2020

**Where:** Online via Zoom

**Cost:** \$15 inc GST for the session and materials

### Big Ideas in Number – Primary (3:45pm-4:45pm)

#### Fractionally more interesting than pizzas and pies – Primary

Research has shown that children find fractions very hard to learn and proficiency with fractions is a predictor of success at senior high school levels. Students' first introduction to this abstraction of mathematics is important in the development of their understanding and use of decimal fractions, common fractions, and percentages. It is also the foundations of proportional reasoning.

This session will focus on teaching fractions in Year 1 through 4.

### Big Ideas in Number – Secondary (5pm-6pm)

#### Algebra, Exploring an interesting world

This session will investigate ways of leading students gently into the world of pronumerals, coefficients, exponents, equations and expression through visualisation, exploration, and the need for generalisation.

Registration at <https://www.masaonline.org.au>

## SAMTQ Primary division Years R-7

Student Program – SAMTQ and JSMEP Free entry Maths Investigation Project competitions for students of all levels. Register interest by 3/7/20, delivery of projects 21/8/20.

For more information and registration forms [click through here](#)

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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](mailto:sales@aamt.edu.au)**

## [featured resource] Challenging Mathematical Tasks Unlocking the potential of all students

### Peter Sullivan

*Did you know? Professor Peter Sullivan's research shows that many students don't fear challenges in maths but instead welcome them.*

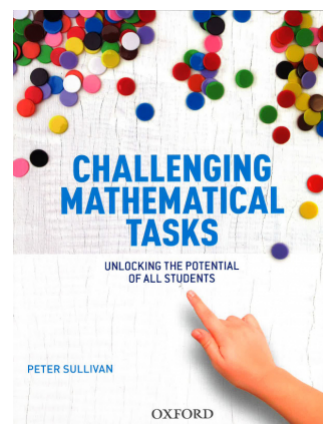
*Challenging Mathematical Tasks* supports the idea the students learn best when they work on unfamiliar problems and tasks. The activities promote sustained thinking,

decision-making and risk-taking, which encourages students to persist and succeed in their learning of mathematics.

Start unlocking the potential of all students.

**#OUP771 \$85.50 AAMT members \$68.40**

<https://aamt.edu.au/Webshop/Entire-catalogue/Challenging-Mathematical-Tasks>



## 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.

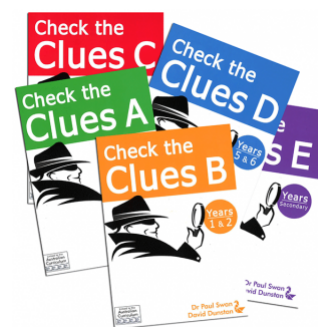
The activities cover all three strands of the *Australian Curriculum: Mathematics* and consolidate understanding of mathematical concepts, promote logical thought processes, incorporate literacy skills and encourage cooperation.

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](http://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](#)

[The mystique of mathematics: 5 beautiful math phenomena](#)

[An inmate's love of mathematics leads to discovery in number theory](#)

[Mathematics can save lives at sea](#)

[Learning mathematics should be fun and interesting](#)

[Symbolic Mathematics Finally Yields to Neural Networks](#)

[In Mathematics, It Often Takes a Good Map to Find Answers](#)

[Mathematics department recognized for STEM student enrichment program](#)

[New Reports Aim to Help Students with Mathematics Beginning as Early as Preschool](#)

[Alum helping learners excel in mathematics](#)

[Creativity is important to life maths education](#)

[Teachers urged to avoid rushing students through the maths curriculum](#)

[Tutoring blitz to help students catch up](#)

[Maths education should focus on relationships, not catching up](#)

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



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