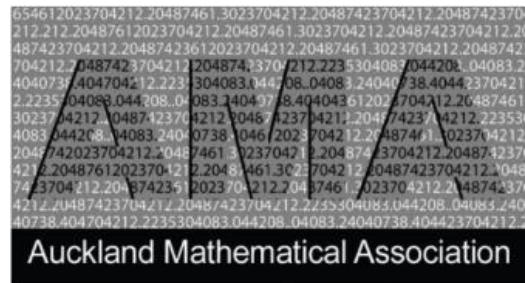


You are invited to attend the 2018 Auckland Mathematical Association Term Three Saturday Morning Workshops

Register online at: [www.aucklandmaths.org.nz](http://www.aucklandmaths.org.nz)



WHEN: Saturday 1st September 2018

WHERE: University of Auckland Epsom Campus, Epsom Ave

TIME: 9.00 am – noon (tea & coffee from 8.30am)

COST: \$5 Koha

**8:30 – 9:00 am** Tea and Coffee – come and catch up with friends or make new ones!

**9:00 – 9:45 am** “Worthwhile Tasks”, Kevin Hannah, [Bevan Werry](#) Memorial Speaker 2017

***Ko te herenga waka, he hakawhitiwhiti korero, he hakawhitiwhiti whakaaro, e uu ko te maramatanga***

*Where canoes are tethered together, dialogue is exchanged, thoughts are provoked, and enlightenment comes forth.*



<http://www.flickrriver.com/photos/flissphil/taqs/waka/>

## Worthwhile Tasks

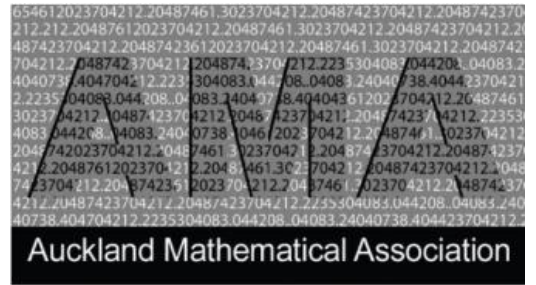
### Abstract:

Within the Best Evidence Synthesis of Mathematics, discussions around ‘Worthwhile Tasks’ include points about how effective teachers:

- ensure that all students are given tasks that help them improve their understanding; and
- set tasks that require students to make and test conjectures, pose problems, look for patterns, and explore alternative solution paths.

This presentation includes examples where pre-planned tasks have provided students with these opportunities to engage with mathematics, along with moments showing how simple tasks can “grow a leg.” It explores the benefits of solving unrehearsed problems and valuing student-generated methods.

Summary of [Best Evidence Synthesis](#)



## 9:50 – 10:40 am Workshop 1

### 1A Worthwhile Tasks in depth

Kevin Hannah      Bevan Werry Memorial Speaker

In this workshop we will continue with the themes surrounding worthwhile tasks introduced in the plenary. We will take time to grapple with tasks that allow for original thinking about important mathematical concepts and relationships.

### 1B From Engineering to Maths and back again!

Lysea Munoz      Tamaki College

New Zealand has a rapidly growing tech sector. How can education keep pace with the skills needed for jobs of the future?

In this workshop I will share how my background in engineering has influenced my practice as a beginning teacher as we look at different activities involving design, problem solving and coding that I have used to engage my Year 9 & 10 students.

Lysea is a Teach First NZ teacher and on a mission to inspire more students to pursue STEM.

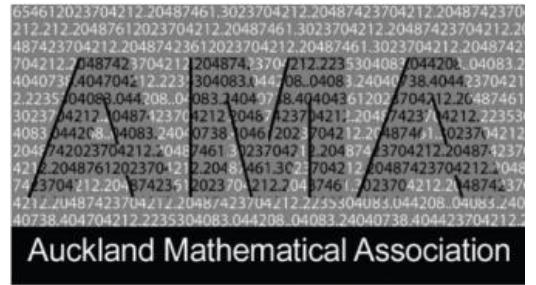
### 1C Maths Games

Kerry Spooner      Auckland University of Technology

Games are a great way to reinforce skills, demonstrate concepts, generate engagement and build positive classroom cultures. Kerri will share her favourite maths games, accumulated after a long teaching career in the classroom. Come being prepared to participate."

**10:40 – 11:10 am** Morning tea  
Trade displays  
Time for talk





## 11:10 am – 12:00 Workshop 2

### 2A Measurement in a new dimension

Subash Chandar K Ormiston Senior College

In this session, you will use free web-based online tools to create a 3D shape. How about programming your 3D shape? You will create a famous monument using basic block coding to build your monument in a 3D plane. Use the tools to create authentic tasks for your students and have a showcase with your students 3D printed models. No 3D Printer - No problems! I will show you a program that will print a net of your image on a piece of paper. Join this session to see how you can teach measurement in a new dimension.

### 2B Students 'Get It'.

**Statistics investigation and activities for curriculum levels 2 to 5.**

Barb Wallis Massey High School

A re-configuring of resources into a 'Kiwi Bird' package of interest, knowledge and statistical understanding. This workshop will set you up with a 2 to 3 week teaching structure of learning including a conceptual overview, lesson plans, and links to great resources.

### 2C "Worthwhile tasks: Exploring measurement of length and time, and using statistics in a practical context".

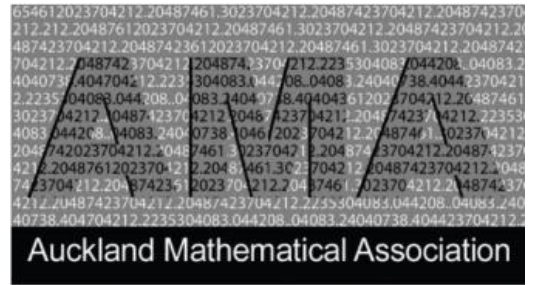
Blake Watkins Massey High School

In this workshop I will be sharing a set of tasks originally designed for our Year 9 measurement topic. We will be estimating, measuring and building a pendulum to keep time. Which group will build the most accurate time piece?

These tasks have been successfully used by teachers as a part of our "Discovering Mathematics" topic designed to promote engagement and interest in mathematics over the first weeks of our year 9 programme.

Registration online at:

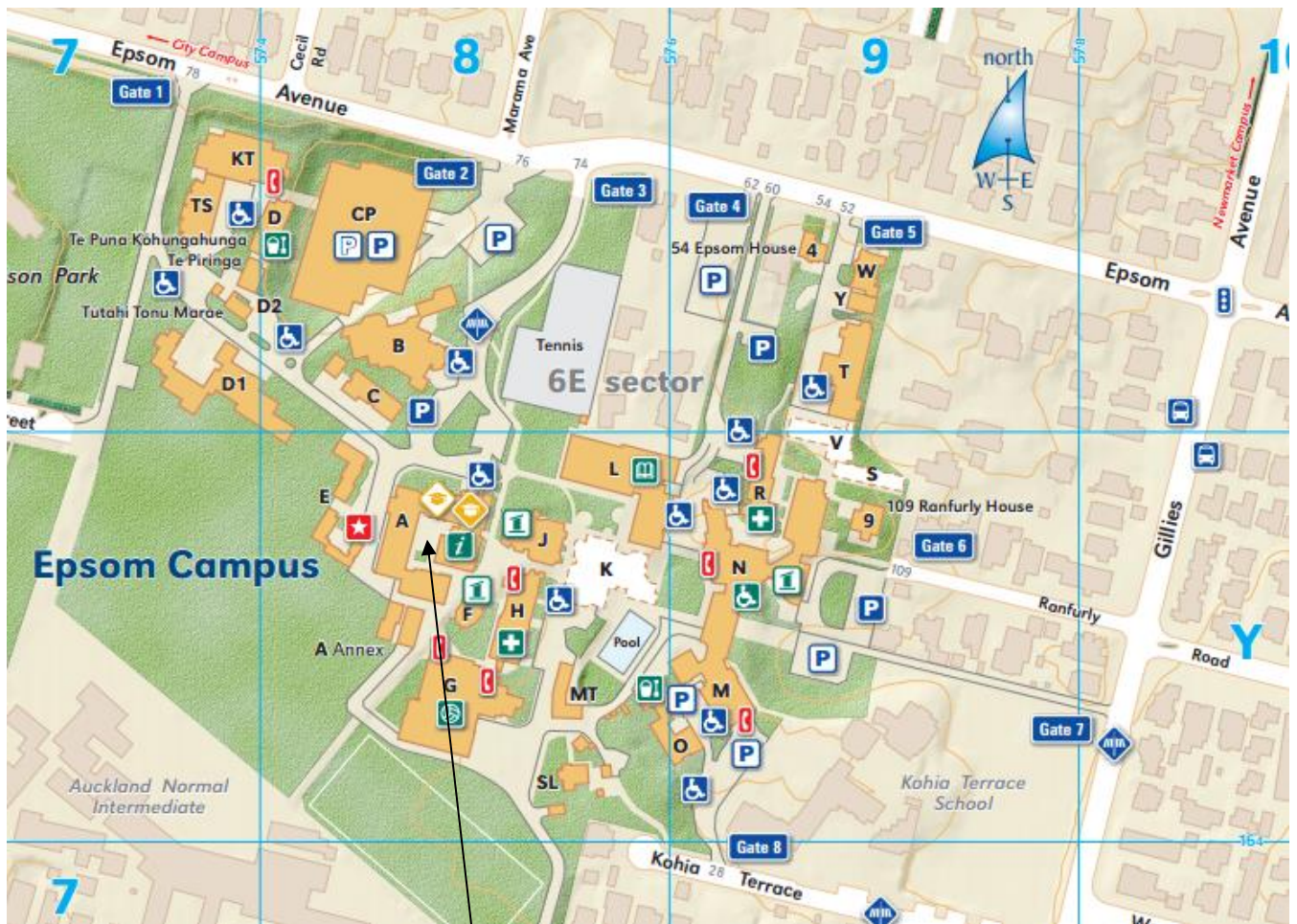
[www.aucklandmaths.org.nz](http://www.aucklandmaths.org.nz)



Please register by 3:00 pm Thursday 30<sup>th</sup> August to help with planning.

Queries Contact: **Robyn Headifen**  
**Barb Wallis**

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[bwallis@masseyhigh.school.nz](mailto:bwallis@masseyhigh.school.nz)



Level 2, A Block



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Auckland Mathematical Association