Contact us

NEXT STEPS?

Our passion is to improve the mathematical capabilities of all young Australians. Extensions of this project will enable us to increase our efforts to connect students with engaging resources. A key project outcome will be providing support to students and teachers in rural and remote schools and disadvantaged communities.

We will continue to use our proven collaborative model of engagement, and broaden our focus to investigating the “Maths Inside” a wider variety of professions and vocations.

WANT TO SUPPORT THIS IMPORTANT WORK?

Please contact the project:

Email: **info.mathsinside@uts.edu.au**

mathsinside.uts.edu.au

facebook.com/utsMathsInside

UTS CRICOS PROVIDER CODE: 00099F
UTS:MCU / JOB 21063 / NOVEMBER 2017

Maths Inside

Faculty of Arts & Social Sciences
and Faculty of Science

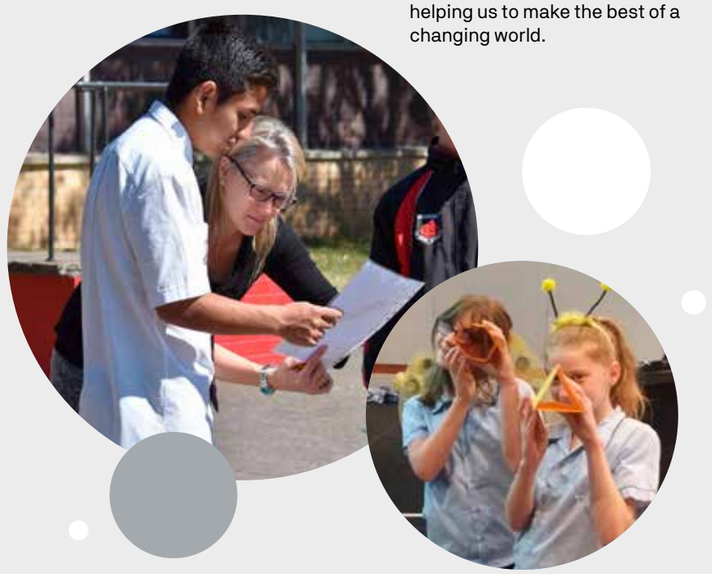
The graphics on this cover is inspired by UTS student diversity in languages spoken 2016 using the UTS Data Visualisation App.

Maths Inside

The ‘Maths Inside’ project has been developing resources to help teachers bring maths to life for high school students and increase the numbers of students taking advanced maths and science in schools and university study. Initial funding was secured from the Federal Government, and the collaboration includes UTS, CSIRO and the Australian Association of Mathematics Teachers.

Our Mission

- To enhance engagement of Australian students in mathematics and science
- To provide quality secondary school experiences in mathematics
- To raise awareness of the value of mathematics in emerging careers
- To increase pathways into mathematics study from school to university
- To enhance appreciation of the necessity of mathematics literacies in the 21st century



Modules

MATHS IN 3D
Zebedee is a handheld 3-D mapping system. It produces highly detailed and accurate 3-D images of caves, forests, interiors of buildings and crime scenes.

STARGAZING WITH THE SKA
The Square Kilometre Array (SKA) is a multi-radio-telescope project that when complete will be the largest and most capable radio telescope available to scientists. It will allow scientists to study and collect information about the universe.

MODELLING CLIMATE CHANGES
The climate affects the most important aspects of our lives: from the economy, agriculture and health to the way we relate personally to our environment. Mathematical models help scientists to predict weather and climate patterns, helping us to make the best of a changing world.

BEES WITH BACKPACKS
Colony collapse disorder in bee populations has the potential for disastrous effects on plant pollination. Australian scientists are fitting bees with electronic chips to build up a picture of the behaviour of a healthy hive.

PRAWNS FOR PROFIT
Wild prawns are subject to overfishing. Scientists can produce a higher yielding, more robust farmed prawn through genetic selection and careful monitoring of the environment. What makes a perfect prawn?

BIG DATA, BETTER HOSPITALS
Overcrowding in hospitals is one of the biggest challenges facing our healthcare systems. In order to reduce hospital waiting times, the Patient Admission Prediction Tool (PAPT) uses historical data to predict how many patients are expected to arrive at the Emergency Department every day of the year.

KNOWING NUTRITION
New approaches to the way we think about and analyze food and nutrition are helping scientists to develop innovative approaches to heathy eating and personal health. CSIRO shows how nutrition has a significant influence on the way young people develop.

CLEANER COASTS
Our coastline is a fundamental part of the Australian identity, but it’s under threat from effects of debris washing ashore. Modelling techniques are opening up new ways for scientists to gather data and understand how this happens and what we can do about it.

Meet the team


Mary Coupland


Jason Stanley


Anne Prescott


Sandy Schuck


Marco Angelini

Our achievements

Eight videos and forty classroom ready lesson activities aligned with the Australian Curriculum

Over 1500 teachers and students engaging with our resources

Resources trialled in over **50 schools and colleges**

Over 2000 evaluation responses by students and teachers

“Pathways to Uni Maths” online resource for mathematics preparation and career guidance

Project resources **well received by participants**

Impact through **conference dissemination, research publications**

Positive changes in practice through accredited professional learning