



Mega Maths Day 2019

For Year 9-10 Students



Mega Maths Day engages with Year 9-10 students who need to make choices about what kind of mathematics to do in senior school. The program has been designed to inspire these students with mathematics and showcase a variety of disciplines and careers that require mathematics.

9.30AM-2.30PM Friday March 29, 2019
\$16.50/student

No matter what your students choose to do in the future, maths will be a part of it: from maths models that help predict which latest fashion items will sell out, to calculations that allow you to build bridges, to statistics that show what people think of a business, to computations that help in the understanding of diseases.

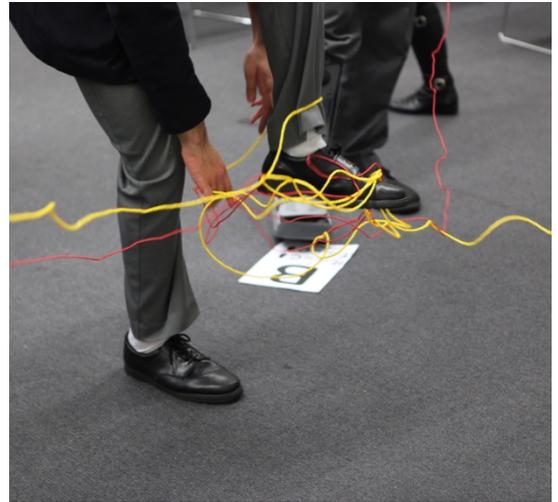
Timetable 2019

Start	End	Activity
9.30am	10am	Arrival and Registration
10am	10.40am	Mathematics Everywhere
10.50am	11.40am	Workshop A
11.40am	12.30pm	Lunch
12.30pm	1.20pm	Workshop B
1.25pm	2.15pm	Workshop C
2.15pm	2.30pm	Closing

Your students will discover how maths is involved in pretty much every area of life at Mega Maths Day. Year 10 is a key time when your students are choosing their future direction, so give them the opportunity to find out just how important a solid background in maths is for a huge array of disciplines and careers. Your students will be inspired by how maths studies will open doors in their future during this Mega Maths Day full of workshops showcasing the importance of maths in a variety of settings.

Mega Maths Day will show your students how magnificent, marvellous and monumental maths is!

sydney.edu.au



Workshops

Classes will participate in three activities exploring different applications and areas of maths. Below are some examples – the final set of activities will be available in early March.

The Mathematics of Origami

The art form of origami has a surprising amount of mathematics underpinning its beautiful simplicity. Learn some of the maths that can help you gain a deeper understanding of the simple act of folding paper.

Bees!

When biologists want to model bee behaviour, they turn to mathematicians. Take on the role of a busy worker bee, helping to find a new nesting site for your new queen. Learn how simple rules can interact to produce complex co-operative behaviour.

Paying for Predictions

The junction of geoscience, policy making and probability! We'll try out a game which is used to train policy makers and disaster relief agents about the complexities of seasonal forecasts and climate predictions.

A Discrete Challenge

Ready for a maths relay of your life? Get those thinking caps on! You'll be learning and then testing your discrete mathematical skills! Covering topics like minimum spanning trees, Hamiltonian and Eulerian paths, and graph colouring. Discrete maths underpins most of modern computer science - future programmers can get a head-start here.

Fermi Problems: The Science of Estimating

Impress your friends and solve all your physics problems in a flash with this entertaining session. Build an arsenal of tips and tricks to improve your powers of estimation.

Lost in the Leaf Litter

Take a tour of organic matter and look at what is lurking in the leaf litter. Students will find out how agricultural and environmental scientists measure the biodiversity and abundance of species, and what the practical, real-world applications of these calculations are. We will consider how invertebrates influence the soil and apply some simple statistics to help us understand our dabbling in the detritus.

School Programs Terms and Conditions

By registering to this event I represent to the University of Sydney (“University”) that I have read, understood, and agree to the terms and conditions of registration for a particular cohort of students for a Schools Program (“Program”) as set out below:

- The University will hold the requested number of places. If circumstances change or student numbers change, I understand that I am required to inform the University by email to science.alliance@sydney.edu.au as soon as possible. The final date to make changes is 20 business days before the booked session.
- Student numbers will be finalised 20 business days prior to a booked session. There will be a cost (incl. GST) per student for each activity and this cost will be agreed on at the time of booking.
- For online payment facility using a credit card at time of booking, a receipt will be provided upon payment. For pay later facility, I understand that I will be invoiced for the number of students confirmed 20 business days before the booked session and payment should be made to ‘The University of Sydney’.
- If a booking is amended or cancelled less than 20 business days prior to the booked session, the session fee is non-refundable.
- The University may consider a request to change sessions and will endeavour to facilitate a reasonable change if requested more than 20 business days prior to a booked session, however, it cannot guarantee that a change may be made. If no change is possible and the requisite 20 business days notice has been provided, a full refund will be issued.
- Refunds will not be given for non-attendance or partial attendance, and make-up sessions will not be provided.
- The University reserves the right to alter any of the arrangements for the Program (including the venue and staff participating) and to cancel the Program, although every effort will be made to provide the Program in a manner similar to that published. If the Program is not held for any reason then the University of Sydney’s liability is limited to the registration fee only.
- I acknowledge that the Program may involve activities that are potentially dangerous and I agree to abide by all directions of the University including its employees agents, contractors and volunteers.
- I warrant that I have obtained consent to attend from the parents and guardians of all students attending the Program.

sydney.edu.au/science/outreach

For more information

School Programs Officer

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