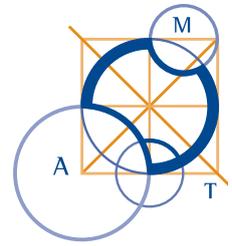


MATHS MATTERS



NEWSLETTER OF THE AUSTRALIAN MATHEMATICS TRUST

APRIL 2017



Australian Mathematics Competition

Computational and Algorithmic Thinking

MCYA Challenge and Enrichment

Bookshop

2017 Prices and Key Dates

Competition entries are open for the AMC

40th
1978-2017

Australian Mathematics Competition

This year we're celebrating the 40th Australian Mathematics Competition!

The Australian Mathematics Competition (AMC) is a fun 30-problem competition that shows the relevance of mathematics in students' everyday lives. Each year Australia's leading educators and academics design unique problems for the AMC. Hundreds of thousands of students in years 3–12 ,

from Australia and overseas, participate in the AMC annually. Students are asked to solve 30 problems in 60 minutes (Years 3–6) or 75 minutes (Years 7–12).

The competition, which will be held on Thursday 27 July this year, is open to all students through their schools. Applications for paper entries close 10 July and online entries close 20 July 2017.

Registration for the 2017 AMC is still open, so jump online at <http://www.amt.edu.au/entry/> to register your school.

Schools can also ensure that students are prepared and ready for the AMC by purchasing the training program, GetSet AMC for \$2 per student. Alternatively, parents can get GetSet AMC for their child for just \$6 each. Visit <http://amt.edfinity.com> for more information.

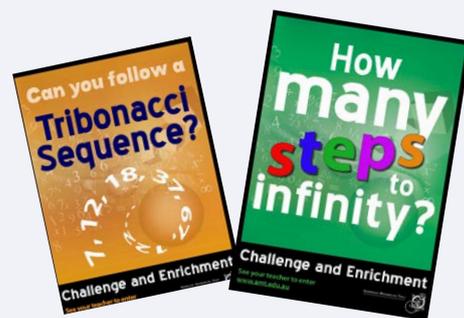
Register for Enrichment

As the school year rolls on, you're probably trying to find ways to keep your mathematically gifted students engaged with their learning. We have a solution—the Enrichment stage of the [Mathematics Challenge for Young Australians \(MCYA\)](#).

MCYA Enrichment is a 12–16 week program held flexibly between April and September. It comprises seven parallel stages of comprehensive student and teacher support notes. Each student participates in one stage. These programs are designed for students in upper primary and lower to middle secondary school (Years 4–10). The Enrichment stage is independent of the earlier Challenge stage; however, they have the common feature of providing challenging mathematics problems for students, as well as accessible support materials for teachers.

Registrations for the Australian Intermediate Mathematics Olympiad (AIMO) are also open, with the competition taking place on 12 September.

To learn more or register, visit: www.amt.edu.au/mathematics/mcya/



Australia hosting APIO

The [Asia-Pacific Informatics Olympiad \(APIO\)](#) is an IOI-like competition for delegations within the South Asian/Western Pacific region.

This year the APIO will be hosted by Australia and will be organised by the Australian Informatics Olympiad Committee.

The contest is a one-day internet-based contest, with teams competing from within their home countries. The contest will be held on Saturday 13 May 2017, and will run for five hours from the starting time selected by each official contest site supervisor.

Students are invited to sit this contest if they are eligible for the IOI 2017. All students must participate in the contest at an official contest site. Registrations open on 29 April and will close on 6 May.



CAT Results

Students in schools across Australia sat [Computational and Algorithmic Thinking \(CAT\)](#) on 21 March. Over 16,000 students registered across over 400 schools, both in Australia and overseas. Congratulations to all students who participated and in particular to the 70 students who obtained perfect scores. These students are listed on the AMT website at <http://www.amt.edu.au/informatics/cat-results>. Schools have received their results by email and certificates will be dispatched in May.

We are delighted with school coordinators' and students' strong level of interest in this competition. We are making improvements in response to feedback received—this will increase both teachers' and students' enjoyment of CAT in the future.

This is the third year that we have offered the Online CAT

in addition to the paper version, which will continue to remain as an option for schools. Approximately 5000 students registered in 2017 to sit Online CAT through our Edfinity platform. Support materials were emailed to schools to assist students with diagram questions.

We wish to thank all of the staff and volunteers involved for their assistance in running this year's CAT. The competition is the first stage in identifying and training students to compete at higher levels.

Next up for informatics, we have the [Australian Informatics Olympiad \(AIO\)](#), which this year will be held on Thursday 31 August. As this is a programming competition, encourage your students to learn a programming language, such as Python. To learn how to code for free and for all other information visit <http://www.amt.edu.au/informatics/aio>.

Training for the top: selection schools

Top performing high school students from around Australia have recently finished intensive selection schools at Macquarie University. They competed for a small number of places on national teams for the international mathematics and informatics Olympiads.

Thirty students were invited to the Australian Mathematical Olympiad Committee (AMOC) Selection School and 16 students were invited to the Australian Informatics Olympiad Committee (AIOC) Selection School, which wrapped up on 25 and 26 April respectively. The selection schools, which were coordinated by the Australian Mathematics Trust (AMT), taught a variety of advanced problem-solving skills relevant to many university courses and careers in science, technology, engineering and mathematics.

The AMT will select the teams to represent Australia at this year's International Mathematical Olympiad (IMO) and International Olympiad in Informatics (IOI).

Six IMO and four IOI team members will be officially announced and presented with their Australian team blazers at a ceremony in Parliament House, Canberra, on 19 June.

Optiver is an official sponsor for our Olympiad programs. The mathematics and informatics Olympiads are also supported by the Australian Government Department of Industry, Innovation and Science through the National Innovation and Science Agenda.



The 2017 Olympiad hopefuls

Australia wins FARIO for 11th year running

Congratulations to Australia who, for the eleventh year running, has won the best team performance in the French-Australian Regional Informatics Olympiad (FARIO). Individual first place was won by Arthur Leonard of France with Australian Richard Gong coming a very close second.

FARIO is a fun online invitational competition, consisting of three questions, between Australia,

France, Belgium and New Zealand. Like the Australian Invitational Informatics Olympiad, it also forms part of Australia's IOI team selection process. It offers the best high school computer programmers in Australia, France, Belgium and New Zealand a chance to compete against like-minded students from other countries.

The top students and their results are listed below.

Name	Country	Score
Arthur Leonard	France	215
Richard Gong	Australia	214
Théophile Vallaeys	France	176
Killian Dengreville	France	165
Jerry Mao	Australia	145
Adrien Vannson	France	134
Sam Parkinson	Australia	122
Alexandre Kirchmeyer	France	120

Name	Country	Score
Angus Ritossa	Australia	120
Charles Jameson	Australia	120
Daniel Choi	Australia	120
Hugo Jacob	France	120
Jacob Smith	Australia	120
Malo Jaffré	France	120
Seungje Jung	New Zealand	120

Do you know any Maths or Informatics teachers who would benefit from receiving the *Maths Matters* newsletter? They can sign up through the AMT website at www.amt.edu.au by simply filling in their details. *Maths Matters* is emailed six times throughout the year (Feb, Apr, Jun, Aug, Oct and Dec). Please consider the environment before printing this newsletter.