

2009 Mathematics Talent Quest

Aims of the Mathematics Talent Quest competition

Mathematics Talent Quest ('MTQ') aims to involve students of all ability levels in a co-operative and enjoyable mathematical investigation.

Why enter?

It allows students to explore Mathematics on a class, an individual or a small group basis. It is a great opportunity for winning certificates, prizes and awards and the experience also helps with general projects, investigations and literacy. If the 1st prizewinner from Year 11/12 is in the Individual Student category, he or she will be awarded the Cletus Oakley Medal by MAWA and a Scholarship to the value of \$1000 to enter the double degree BA(Ed)/BSc program in Mathematics at Edith Cowan University in either 2010 or 2011. In the other categories first prize vary from \$60 to \$100 and second prize from \$40 to \$60.



Who can enter?

- **Whole class Years K-7**
- **Individuals Years 4-12 or Groups of two to three students Years 4-10**

TOPICS

Recent MTQ topics must not be used. Need help, 9345 0388.

- **Whole class Years K-7:** Your own choice of topic.
- **Individuals Years 4-12 or groups of two to three students Years 4-12:** Choose from the two topics at each year level:

Years	TOPICS
4	1. Eight-Stick Shapes 2. Fraction Field
5	1. Eight-Stick Squares 2. Side Show Alley
6	1. Sharks and Dolphins 2. Face Painting
7	1. Doughnut Dilemma 2. Rock Paper Scissors
8	1. Bananas 2. Golden City
9	1. The Maths of Juggling 2. What's My Chance of Mayfair?
10	1. Fair Distribution 2. Cross Dots
11/12	1. Iteration 2. To Speed or Not to Speed? 3. Your Own Choice of Topic

How to present the findings of your mathematical investigation

A mathematical investigation is an activity where mathematics is applied to systematically explore certain ideas. This could involve, for example, collecting and analysing data, finding and generalising number patterns, formulating and testing conjectures, and modelling and measuring attributes. The findings of the investigation can be presented as a report, a poster, a calculator/computer program, a story or an audio visual presentation.

What happens?

- Teachers may decide to make the MTQ projects an investigative part of their course work.
- Students may begin their projects any time - at the latest by the start of Term 2.
- Late in Term 2, projects are collected and judged by the school.
- Selected projects are entered by the school in the State level competition.
- **Selected winners from the State judging go forward to the National Mathematics Talent Quest.**

General details

- An information pack containing general information, judging criteria, and entry rules together with topic details will be sent after registration.
- After the school judging (late June), the school will nominate and pay for each State entry.
- Merit certificates are provided for all State entries.
- State judging: Thursday 30 to Saturday 1 August 2009.
- Awards Night for prize winners and participants will be held on August 7th 2009.

Need help?

Contact the MAWA office if you need assistance in guiding students through the MTQ - 9345 0388 or office@mawainc.org.au.

Registration details

- Schools pay a registration fee for entry to the competition - see overleaf.
- On receipt of completed registration form and fee, the information pack and topic details will be sent.
- Registration forms are due in the MAWA office by Friday 13 March 2009.



The Mathematical Association of Western Australia (Inc.)
(Member of the Australian Association of Mathematics Teachers)

PO Box 440 Mirrabooka WA 6941 Tel: (08) 9345 0388 Fax: (08) 9345 0488

office@mawainc.org.au www.mawainc.org.au

PTO

2009 Mathematics Talent Quest

ABN 83 179 618 286

SCHOOL REGISTRATION FORM

TAX INVOICE

School _____

Tel No _____

Fax _____

Email _____

Contact person(s) _____

Registration Fee

Please tick as appropriate:

- Primary School - \$44.00
- Secondary School - \$44.00
- District High School - \$44.00
- Primary and Secondary (combined) - \$66.00

Registration fees include 10% GST.

Payment option 1:

EFT-Direct Deposit
BSB: 06-6013 Account #: 10076346
Reference: Reg MTQ

Please email your remittance to office@mawainc.org.au

Payment option 2:

Cheque
Please post cheque for \$44 or \$66 to MAWA PO Box 440
Mirrabooka WA 6941

Whole Class - Years K-7

(A fee of \$22.00 (includes 10% GST) for each class project entered in the State level competition is due end of Term 2.)

- Teachers free to choose a topic but it must not be a recent MTQ topic.

Individuals - Years 4-12 or

Groups of 2-3 students - Years 4-10

(A fee of \$5.50 (includes 10% GST) for each project entered in the State level competition is due end of Term 2.)

I am interested in receiving full details of the listed topics (overleaf) for:

- YEAR 4
- YEAR 5
- YEAR 6
- YEAR 7
- YEAR 8
- YEAR 9
- YEAR 10
- YEARS 11/12

Please post this form to: Maths Talent Quest
MAWA
PO Box 440
Mirrabooka WA 6941

This form to be received by Friday 13 March 2009



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