

2017 MATHS TALENT QUEST

PROMOTE MATHEMATICS . CAPTURE IMAGINATIONS . EXPLORE NEW CONCEPTS

FOSTER POSITIVE ATTITUDES . HAVE FUN . RECEIVE RECOGNITION

WWW.MAV.VIC.EDU.AU



MATHSTALENTQUEST

KEY DATES - 2017

Registration Opens	Tuesday 18 April 2017
Registration Closes	Friday 28 July 2017
Delivery of entries at La Trobe	Wednesday 23 August 2017
Judging of MTQ Entries	Thursday 24– Tuesday 29 August 2017
Display of MTQ Entries	Wednesday 30 August 2017 (morning)
MTQ Awards Ceremony	Thursday 19 October 2017



MATHS TALENT QUEST

WHAT IS THE MATHS TALENT QUEST?

- The Maths Talent Quest (MTQ) is an annual activity organised by the Student Activities Committee of The MAV, open to all primary and secondary school students
- The MTQ allows students to look at real life situations through researching a topic of their choice. Students have the opportunity to demonstrate their knowledge and learning in various means
- The focus of the MTQ is on the process of mathematical investigations and relating mathematics to everyday life
- The MTQ aims to promote an interest in mathematics and foster positive attitudes amongst students, teachers and parents alike



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WHY INCLUDE THE MTQ?

- Promotes an interest in and increases the awareness of mathematics
- Facilitates the integration of learning outcomes across the mathematics strands and across other curriculum areas within relevant contexts
- Provides students with the opportunity to discover the practical applications of mathematics
- Develops student research and communication skills
- Equips student with various problem solving strategies



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WHY INCLUDE THE MTQ? - CONTINUED



- Supports independent and collaborative learning
- Caters for mixed ability teaching and a variety of learning styles
- Caters for student diversity
- Creates avenues of extension for the more able students
- Allows all students to achieve a measure of success
- Fun and creative for all involved



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RELEVANCE OF THE VICTORIAN CURRICULUM

- As well as ensures students work with the four proficiency stands:
Understanding, Fluency, Problem Solving and Reasoning
- MTQ Projects and Investigations address all three content stands:
Number & Algebra, Measurement & Geometry, Statistics & Probability



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WHO CAN ENTER THE MTQ?

- All students from Prep to Year 12 can enter
- The competition is categorised into year levels from Prep to Year 9, with a combined Year 10-12 level
- Children in early year settings are welcome to enter, these entries being categorised at a Prep level
- Entries can be received from Individuals, Groups of up to 6 students and classes of up to 30 students
- A maximum of 8 entries per level will be accepted



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HOW DO WE ENTER THE MTQ?

- Check out The MAV website for further information
- Attend an MTQ PD or contact an MTQ Coordinator for extra assistance
- Have students complete entries using the judging rubric for guidance
- Select which entries from your school you would like to submit
- Registration opens on **Tuesday 18 April**. Register online at:
<https://www.mav.vic.edu.au/student-activities/maths-talent-quest.html>
- Registration closes online on **Friday 28 July**.



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HINTS TO GET STARTED:

- Discuss the benefits of students entering the MTQ
- Consider contacting other schools involved in past MTQ years
- Discuss the MTQ process with other interested teachers
- Consider including the MTQ into the Mathematics Curriculum
- Appoint an MTQ Coordinator for your school
- Recruit staff to assist with school and state judging. This can count towards their Professional Learning and provide them with ideas for future classroom activities



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HINTS TO GET STARTED - CONTINUED



- Start working with your students early
- Give students ideas and inspiration
- Have a brainstorming session: What are their personal interests and hobbies? What topics do they enjoy?
- Consider current National or Global Issues
- Go on excursions and camps for inspiration and research
- Visit the local community for further ideas



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ENTRY FORMATS:

Entries can be submitted in the following ways:

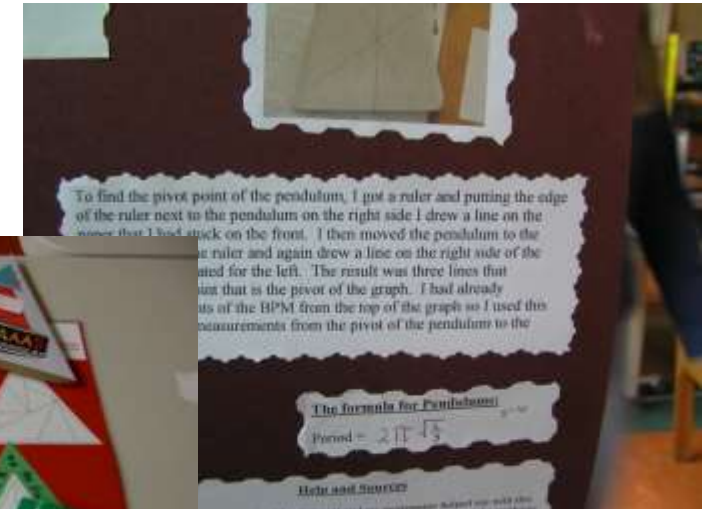
- Creative Writing
- A Model
- A Poster
- A Computer Program or Website
- Video, Audio or Multimedia Presentation



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INVESTIGATION - INCLUSIONS:

- An Abstract
- Mathematical Aims
- Observations and Results
- Discussion on Relevance of Results
- Conclusion
- References and Acknowledgements



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CREATIVE WRITING - INCLUSIONS:

- Mathematical Aims
- List of Key Mathematical Ideas
- Evaluation
- References and Acknowledgements

Examples of creative writing submissions can include an essay
creative story, collection of poems or letters, a script for a play, etc.



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MODEL - INCLUSIONS:

- Mathematical Aims
- Rules and Investigation Process
- Conclusions, References and Acknowledgements
- **Models must not exceed 10kg or be larger than 70cm in all dimensions. No food items will be accepted**
- Models may be static or working
- Models should demonstrate a mathematical principle



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POSTER - INCLUSIONS:

- Mathematical Aims
- Rules and Investigation Process
- Conclusions, References and Acknowledgements
- **Poster dimensions must be no larger than an A1 sheet**
- Posters should present information in a sequence with a clear indication of the mathematics involved.



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COMPUTER PROGRAM, WEBSITE, VIDEO, AUDIO OR MULTIMEDIA PRESENTATION:

- Mathematical Aims
- Rules and Investigation Process
- Script indexed commentary, operating instructions.
- Conclusions, References and Acknowledgements



Maximum running time is 15 minutes. Videos should be in DVD format. Computer programs must be in Windows/Mac format. They must not require any installation of software. Programs must be accompanied with a hard copy.



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JUDGING REQUIREMENTS

- Judging will occur for a week in August
- Judging will be held at **La Trobe University, Bundoora Campus**
- Each metro school entered has to provide a minimum 2 hours
- Regional schools are encourage to participate in judging
- Independent and student teachers are also welcome to apply



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JUDGING RUBRIC



- The Judging Rubric can be downloaded from The MAV website
- The current judging rubric is in draft form



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MTQ STATE AND NATIONAL AWARDS

- Every entrant will receive a participation certificate
- Encouragement and Credit: Receive a certificate
- Distinction and High Distinction: Receive a certificate and voucher
- Outstanding investigations are forwarded to the National MTQ
- Distinction, High Distinction and National Awards will be presented at the Awards Ceremony held on **Thursday 19 October**



FURTHER INFORMATION

- Please visit the MTQ website to download additional documents
www.mav.vic.edu.au/activities/student-activities/maths-talent-quest.html
- Attend an MTQ Professional Development workshop – dates can be found above link
- Contact MTQ Education Consultant: Jennifer Bowden (jbowden@mav.vic.edu.au)
- Contact MTQ Event Manager Jacqui Diamond (jdiamond@mav.vic.edu.au)
- Phone the MAV Office on 9380 2399

