The Mathematical Association of Western Australia Inc.

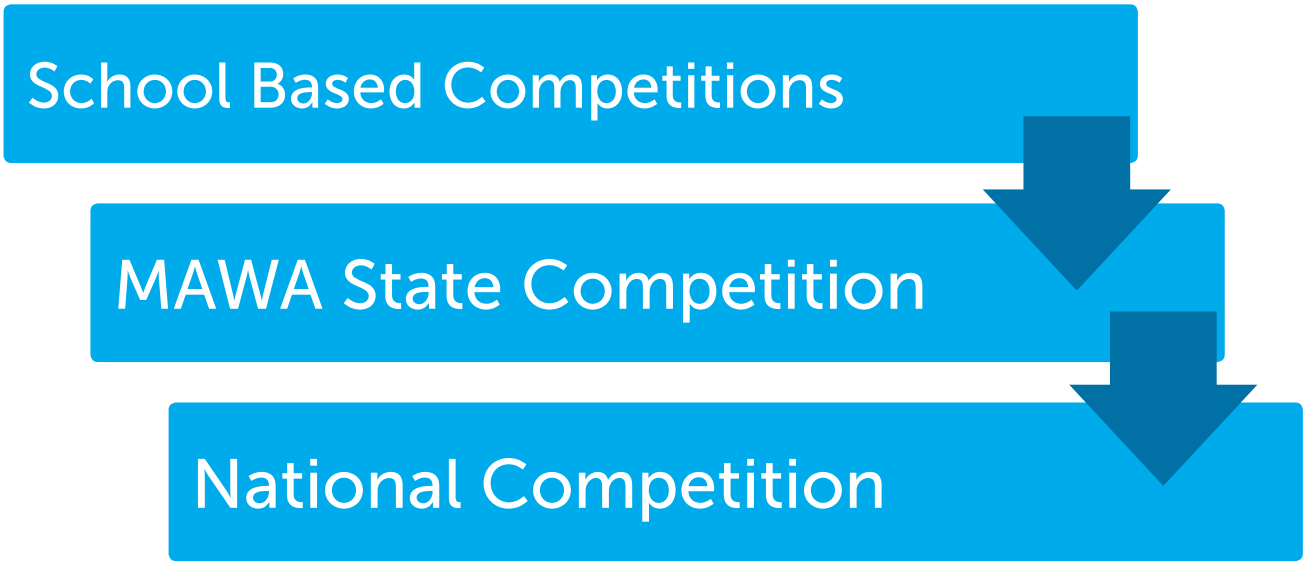
MAΣWA

MTQ

MATHS TALENT QUEST

2019 HANDBOOK

The Pathway for Maths Talent Quest Projects



A Message from the Maths Talent Quest Co-ordinator

On behalf of the Mathematical Association of Western Australia (MAWA), the professional body representing primary and secondary teachers of Mathematics, I would like to invite primary and secondary students to participate in the 2019 Maths Talent Quest competition.

A mathematician is given or finds a problem of interest and then plays with that problem. A solution to the problem is not always clear and the journey that the mathematician takes is one of curious discovery. A mathematician will work on a problem with the tools they have in their mathematical toolbox and will learn new mathematics as needed along the way.

Through Maths Talent Quest we invite you to work like a mathematician on a problem that is of interest to you. Mathematics is a language that is used in the fields of Science, Technology, Engineering and beyond. The art of mathematics in its purest form will take you on a creative journey, sparking students' curiosity and introducing them to the wonders of the mathematical world.

Donna BUCKLEY

MTQ Co-ordinator MAWA

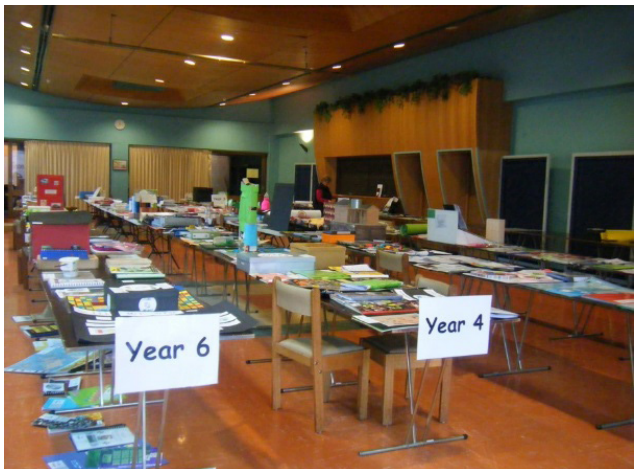
The Maths Talent Quest Competition

What is the Maths Talent Quest?

The focus of the Maths Talent Quest (MTQ) is on the process of mathematical investigations. The MTQ aims to promote interest in mathematics and foster positive attitudes among students, teachers and parents. MTQ is an annual activity organised by the Student Activities Convenors of The Mathematical Association of Western Australia (MAWA).

Looking at real-life situations and finding that mathematics is everywhere helps capture the imagination of both teachers and students alike. MTQ allows students to investigate mathematics on an individual, group, or class basis; with the opportunity to have fun exploring mathematics in real-life situations.

All MTQ entrants to the state competition will receive a certificate. Gift vouchers will be awarded to both High Distinction and Distinction winners for each year level at the MTQ Awards Ceremony held in September 2019. The entries that receive a High Distinction at State level are judged separately, as one entry from this group will be forwarded for judging at the National Maths Talent Quest held by the Australian Association of Mathematics Teachers (AAMT).



Why participate in the Maths Talent Quest?

The Maths Talent Quest:

- Promotes an interest in and increases the awareness of mathematics.
- Facilitates the integration of learning outcomes across mathematics and other curriculum areas within the Australian Curriculum.
- Develops students' research and communication skills.
- Encourages students to verify and justify the results of an investigation.
- Equips students with problem-solving strategies.
- Provides students with the opportunity to discover practical applications of mathematics.
- Supports independent and collaborative learning.
- Creates avenues for extension.
- Allows all students to achieve some measure of success.
- Caters for mixed ability teaching and a variety of learning styles and preferences.

The projects and investigations of MTQ address all three Australian Curriculum content strands:

- Number and Algebra
- Measurement and Geometry
- Statistics and Probability

Projects and investigations ensure that students work within the Australian Curriculum proficiency strands:

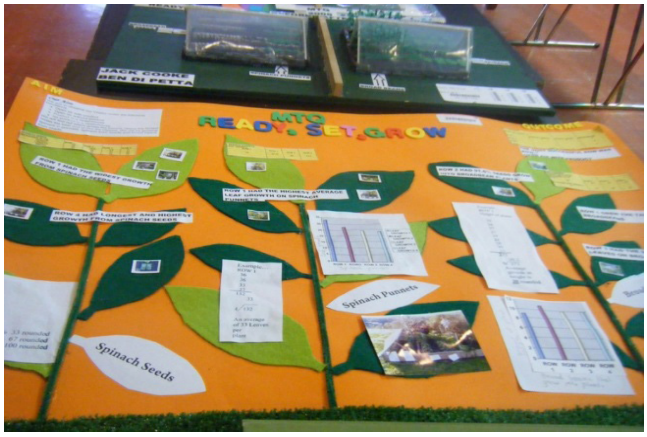
- Understanding
- Fluency
- Problem Solving
- Reasoning

Students are typically required to research, design, explore, create, question, articulate, communicate, think, solve problems, collaborate and communicate while completing their MTQ projects. Audiences often range from classmates and teachers, to parents and broader communities. Digital technology is frequently used as a tool during MTQ for both mathematics and communication. Real-world applications, historical research and working models completed individually,in groups, or as a class are all part of the MTQ process.

Projects and investigations cater for student diversity. They not only provide gifted and talented students with the opportunity to show their ability and to follow interests; they also allow students from diverse backgrounds (particularly those from different cultures and rural centres) to demonstrate how mathematics relates to their lives.

MTQ engages students in mathematics project work and investigations, as well as providing them with an opportunity to use STEM skills to communicate to their peers, as well as to state-wide and national audiences. In addition, participating in the MTQ rewards students' efforts. MTQ supports teachers with professional learning and resources on how to implement and manage investigative projects, and how to assess and report student achievement.

Who can enter the MTQ?



All students from Pre-Primary to Year 12 can enter MTQ. The Quest is categorised into year levels from foundation to year 9 and a combined Years 10-12 level. Children in the early years settings are also welcome to enter the MTQ, these entries will be entered at a Pre-Primary level.

Entries can be received from:

- Individuals,
- Groups of no more than 6 student, or
- Classes of no more than 32 students.

If two or more classes of the same school and year level have investigated a common theme, entries should be submitted separately for each class, ensuring that the entries address a different aspect of the investigation. Where group or class entries involve students from mixed year levels, they will be placed in the higher year level category. A maximum of 8 entries per year level will be accepted for state judging. Students following a non-standard pattern of study (home schooling, accelerated students and students in special programs) may choose to enter the MTQ in either the class/year grouping that relates to their age, or they may choose to enter into an older division.

What is involved in a mathematics investigation?

A mathematical investigation allows students to examine a situation originating in mathematics or the real world which lends itself to inquiry. It involves a series of steps:

- getting to know the situation and formulating questions
- exploring systematically
- making and testing conjectures
- explaining or justifying results
- extending the situation by formulating further questions
- summarising the findings.

Investigations require students to use mathematical processes to understand the problem or situation. The types of processes developed by work on investigations include:

- data collection
- symbolising
- classifying
- simplifying
- abstracting
- following and extending patterns
- conjecturing
- communicating
- justifying and proving
- generalising and hypothesising
- predicting.

The important difference between a mathematics investigation and a mathematics problem-solving task is that students need to formulate their own questions from a given situation. By formulating their own questions, students give a clear indication of their level of knowledge and understanding of their chosen topic.

The Mathematical Thinking Process

Based on the Mathematical Thinking Process Model outlined in SCSA syllabus

1 Interpret the task and gather the key information

- What is the purpose of the task?
- What information has been provided with this task?
- What information will I need to pursue?
- Upon completion of this task: what decisions can be made and what conclusions can be stated?

2 Identify the mathematics which could help to complete the task

- What mathematical skills and concepts could I use to work on this task?

3 Analyse information and data from a variety of sources

- Upon analysis of information, do I have enough, or do I need to research for further information?
- What are the best sources to obtain the required information?

4 Apply exisiting mathematical knowledge and strategies to obtain a solution

- How do I apply the identified mathematical processes to complete this task?
- How do I solve the task using the concepts and skills identified above?
- Have I become aware of other processes that will assist in the solution to the task?

5 Verify the reasonableness of the solution

With the original task in mind:

- Is the solution valid?
- Does this solution solve the task?
- Is the solution both, efficient and optimal?

6 Communicate findings in a systematic and concise manner

- Have I explained the solution to the task in an efficient way using appropriate language with diagrams if necessary, referring to the original task, directing the conclusion/s to the target audience and referenced my data source/s?

The Statistical Investigation Process

Based on The Statistical Investigation Process outlined in SCSA syllabus

1. Clarify the problem and pose one or more questions that can be answered with data

2. Design and implement a plan to collect or obtain appropriate data

3. Select and apply appropriate graphical or numerical techniques to analyse the data

4. Interpret the results of this analysis and relate the interpretation to the original question

5. Communicate findings in a systematic and concise manner.

The Mathematical and Statistical Thinking Process
What can be entered in the MTQ?

PROJECTS CAN BE	ALL PROJECTS MUST INCLUDE
An ***Investigation*** (All entries should be investigations)	An abstract (a brief description of what you did and what you achieved); mathematical aims; observations and results; discussion on relevance of results; conclusion; references, bibliography and acknowledgements.
Creative writing (essay, story, collections of poems or letters, script for a play)	Mathematical aims; a list of key mathematical ideas; an evaluation (how well did you achieve your aim?); references, bibliography and acknowledgements.
Media or ***technology*** such as: computer program, website, video, audio or multimedia presentation	Notes outlining mathematical aims, rules, the process of the investigation and conclusions; script and indexed commentary; operating instructions; references, bibliography and acknowledgements. Maximum running time is 15 minutes. Videos should be able to be opened in Windows Media Player. Computer programs must be submitted in Windows and Mac formats. Must not require any installation of software. Programs must be accompanied by a hard copy.
A ***poster*** presenting information in a sequence with a clear indication of the mathematics involved	Notes outlining mathematical aims, rules, the process of the investigation and conclusions; references, bibliography and acknowledgements. Poster dimensions must be no larger than a standard A1 sheet (approximately 60cm x 85cm) and must be able to be rolled into a Post Pack Cylinder.

A mathematical journal is not a requirement of MTQ, however the inclusion of a mathematical journal assists the judges to see the mathematical investigation processes used by the student.

How to enter the Maths Talent Quest

- Attend a MAWA MTQ workshop to view previous entries and learn more about running a Mathematical Investigation in your classroom.
- Register your school and School MTQ Coordinator details at https://mawainc.org.au/maths-talent-quest/ Registration opens Monday 29th April 2019
- Organise and complete judging at the school level.
- Complete and submit details of school entries online for State level judging by Friday 2nd August 2019 at http://mawainc.org.au/maths-talent-quest/
- Complete the payment details online to ensure your entries are registered.
- Nominate your judge/s and fill out their details and availabilities online – this is a compulsory component of the MTQ. Please see the Judging Opportunities Information Sheet.
- Wait for your MTQ information package to be emailed to your nominated email address two weeks after close of registration.

Please note:

- MTQ Registration opens Monday 29th April 2019.
- A maximum of 8 entries per year level will be accepted for state judging.
- Refunds will only be accepted prior to Friday 2nd August 2019 (less 50% of entry fee per entry). Please provide your cancellation in writing and include any documentation already sent out. Strictly no refunds will be accepted after this date.
- Registrations close at 5pm on Friday 2nd August 2019. No late registrations will be accepted.

Maths Talent Quest Cost Structure

Number of entries per year level (max 8)	Fee per year level - MAWA members (Inc. GST)	Fee per year level - non-members (Inc. GST)
1	$36	$46
2	$72	$92
3	$108	$138
4	$144	$184
5	$180	$230
6	$216	$276
7	$252	$322
8	$288	$368

Delivery of MTQ Entries:

All entries must be delivered to MAWA Office, 12 Cobbler Place, Mirrabooka, WA, 6061, on Friday 16th August or Monday 19th August 2019 between 9am and 5pm. All entries hand delivered or couriered must be received within these times.

Postal Entries must be received by Friday 16th August. If delivering entries by post, please address to:
MAWA MTQ State Judging
12 Cobbler Place
Mirrabooka
WA 6061

Every entry must be clearly labelled with the official MTQ entry form which will be emailed to you after registration closes on Friday 2nd August 2019. Food items and models will not be accepted. Failure to comply with these requirements will lead to instant disqualification.

PLEASE NOTE: Whilst great care is taken when handling entries, The Mathematical Association of Western Australia cannot accept responsibility for loss or damage to entries.

Notification of Results:

Schools will be notified by email of winning entries. The judge's decision is final and no correspondence will be entered into.

All entries (excluding High Distinction) must be collected from the MAWA office between Monday 26th August and Friday 30th August. Entries sent by post can be returned by post on request and at the school's cost. Entries that are not collected by designated times will be discarded unless prior arrangements have been made with the MTQ Coordinators.

Viewing the entries:

After the state judging is complete, a display of the entries will be available for viewing at MAWA Office, 12 Cobbler Place, Mirrabooka, WA, 6061, on Thursday 22nd and Friday 23rd August 2019 between 9am to 4pm.

Prizes Awarded:

A template for a Certificate of Participation will be emailed to registered schools for the students participating at the school level.

State level prizes are awarded to individual, group and class entries in the following categories:

High Distinction – Gift voucher and certificate

Distinction – Gift voucher and certificate

Credit - Certificate

Encouragement – Certificate

The judges reserve the right to not award any prizes if the standard of entries is not sufficiently high. The judges' decision is final and no correspondence will be entered into. The top entries from each level will be judged and, if considered to be of a sufficiently high standard, will be forwarded for judging in The National Maths Talent Quest.

Hints to get you started:

- Discuss the benefits of students entering the Maths Talent Quest.
- Consider contacting other teachers and schools involved in previous MTQ years.
- Show MTQ PowerPoint to staff which is available at http://mawainc.org.au/maths-talent-quest/
- Discuss the MTQ process at the school level or with a team of interested teachers at a teaching team level.
- Include MTQ in the Mathematics Curriculum. Example: Curriculum focus, parent involvement, alternative assessment opportunities.
- Appoint an MTQ Coordinator for your school.
- Start working with classes early.
- Recruit staff teams to assist with school and state judging as part of their Professional Learning and to gain ideas for future classroom activities.
- Consider involving one entire year level in the MTQ and allocate some class time to projects.
- Class teachers can give students ideas and inspiration for project preparation.
- Initiate brainstorming with the students and teachers across the school.
- Excursions to various places can initiate valuable ideas for a practical project.
- Investigation of the mathematical content in a hobby or sport could also be encouraged.
- At all times, consideration must be given to the mathematical content, originality and presentation of entries.

Judging entries

MTQ entries are to be judged in three stages:

1. School Judging

The MTQ School Coordinator is required to gather a group of teachers within the school to judge and select the entries to be sent to the state judging centre. A maximum of eight entries from each year level that best meet the list of state judging criteria (found at http://mawainc.org.au/maths-talent-quest/) can be selected and then entered into the state competition.

2. State Judging

Occurs on the 20th and 21st August 2019 at the MAWA office. Teachers from various schools and other invited MAWA personnel conduct judging.

The State Judging Rubric can be found on the MAWA website. During the assessment of each entry, the judges will score according to the criteria in the state judging rubric. Please refer to this and the document in evaluating your students' work. Each student should have a copy of this before they begin their MTQ project.

3. National Judging

This occurs in September 2019 at The Mathematical Association of Victoria at Brunswick. Entries into the national level are selected by MAWA. The National Rubric will be made available on the AAMT website. It is compulsory for each metropolitan school to provide a minimum of two hours' judging. Any classroom teacher is eligible to judge. However, they will not be required to judge their own school's entries.

Maths Talent Quest 2019
Student Information

The Maths Talent Quest is an open-ended mathematical investigation with your choice of topic.

- You should aim to choose an original and novel concept. Real world problems are often most interesting.
- Think about how you are going to gain information, collect data and analyse your results.
- You can work as an individual, a member of a group (maximum of six students) or as part of a class (maximum of 32 students).
- Your project must have a title and all references and assistance (including teachers and parents) must be acknowledged.
- Keeping a journal can assist you to keep records of the mathematical investigation process and assists in the judging process
- You should aim to interest your audience. Remember primary and/or secondary teachers will be judging your investigation using the rubric.

How Do I Get Started?

Brainstorm a list of topics that you would like to investigate. It is important that you choose a topic that interests you. You may like to investigate a problem that has affected you, your family, your school or on a global level. Topic could include:

- Investigating the shortest route to school
- How does the weather effect students' transport choices to school?
- How have student transport choices to school differed over time?

Once a topic has been chosen, you should think of a big question or idea to investigate.

Get Planning:

What type of information or data will you require to complete your investigation? Make a list of all the types of data and information you will need. Create a timeline to ensure you willcomplete your investigation in time. Now is a great time to get a critical friend. A critical friend is someone who will give you feedback on your project, share ideas with you and ensure you stick to your goals. Your critical friend may be a teacher, parent or a fellow peer.

Set yourself some goals and smaller questions. Once you have collected enough data and information you can begin your investigation. You may find that your investigative journey changes along the way - this is fine. Make sure your reset your goals & timeline as needed. Your focus may also change, which can sometimes make a more interesting investigation.

Keeping Records:

It is very import that you keep records of your investigation and data. This is a great way to show that the work has been completed by yourself and provides the MTQ judges with an insight into your investigation. You can present all of your working and planning in a journal, attached in a folder or your work can be put into in your investigation. Some students find it helpful to keep a journal, however this is not compulsory.

Presenting Your Investigation:

It is very important that you keep in mind the rubric judging criteria whilst presenting your information. Make sure your aim, plan and conclusion are clear. Present your mathematical strategies, real world connections and terminology effectively. Ensure you have acknowledged any assistance and resources you have used. Be sure to present your work in a neat and legible manner, demonstrating you value your work.

How Are We Going To Judge Your Project?

Please make sure you consult the 2019 State Judging Rubric for information about the criteria.

You can find more information about the Maths Talent Quest at:

http://mawainc.org.au/maths-talent-quest/

What Type of Project can I Choose?

PROJECTS CAN BE	ALL PROJECTS MUST INCLUDE
An ***Investigation*** (All entries should be investigations)	An abstract (a brief description of what you did and what you achieved); mathematical aims; observations and results; discussion on relevance of results; conclusion; references, bibliography and acknowledgements.
Creative writing (essay, story, collections of poems or letters, script for a play)	Mathematical aims; a list of key mathematical ideas; an evaluation (how well did you achieve your aim?); references, bibliography and acknowledgements.
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MTQ Rubric

BARCODE:

JUDGE NAME: _____

			5 Exceed expectations of students learning level	4	3 Evident and appropriate to learning level	2	1	0 Not evident
Investigation process	Choice of topic	1. Provides an appropriate aim. Predicts results and/or describes a hypotheses to be tested.						
		2. Explains how and why they chose the topic and approach to the investigation.						
	Plan of the investigation	3. Lists the mathematical learning intentions of the investigation.						
		4. Lists the mathematical strategies and content that have been used in the investigation.						
		5. Describes how the mathematical strategies and content have been used to achieve results.						
	Communication of findings	6. Analyses their findings and publishes these appropriately.						
		7. Writes a conclusion that discusses the key findings of the investigation. was my initial aim/ hypotheses achieved?						
		8. Reflects on the mathematical learning achieved from the investigation.						
		9. Communicates the investigations and findings appropriately to the given audience.						
Maths focus	Validity	10. Uses correct mathematical terms and symbols.						
		11. Uses accurate mathematical skills.						
	Understanding	12. Analyses mathematical connections within the investigation.						
	Creative	13. Uses critical and creative thinking to explore mathematics within the investigation.						
Application	Legibility	14. Presents the investigation in a legible, logical and appealing manner.						
	Acknowledgements	15. Acknowledges resources used (including reference materials and assistance from other people).						
	Evidence	16. Has provided detailed evidence of work (such as draft, workings and/or notes) ensuring the investigation is a true representation of the students learning and understanding.						
		Total (maximum 60)						

Comments

MTQ
MATHS TALENT QUEST

Maths Talent Quest Investigations

100 Inspirational Titles

24 Dice	Main mode of transport to school
2KW's gumboot maths	Having a winning chance
A day with Grandpa	How big is a dinosaur?
A road trip around Australia	How can we celebrate 100 days of school?
All about apples	How fast is Usain Bolt?
Anika's inquiry into the most popular lunch order in Prep	How has the speed of the 100m sprint changed over 120 years?
Bees maths	How many books read in a week-children v adults
Can I be a sports star?	How many mountains reach space?
Can we use mathematics to help us understand the size of the solar system?	How many Rubik's cubes fit into the classroom?
Car spaces	How many squares on a chessboard
Catch it!!! A feasibility study for removing plastic waste from the world ocean	How much money does it cost to own a bakery and what are the appropriate prices compared to the supermarket?
Creating magic squares	How much money would it cost to build and run a successful taco truck for one year?
Disability education	How much sleep do I need?
Do different parachutes affect the speed with which an object falls	How much would it cost to live on the moon for one year?
Does the body respond differently to sugar being eaten in different ways	How wheel size affects the speed of the bike
Does your body affect your results in sport?	I don't want to be late for school anymore!
Doggy doughnuts	If a fidget spinner were a planet, how long would a year/month/day last, when compared to earth?
Domino topple time	Investigating the colours in boxes of smarties
Exploring the number 9	Investigating the golden ratio
Factors affecting running speed	Is hot dog day worth it?
Famous flying fox	Jetski's canteen
Farm gate to plate	Knot theory
Fibonacci numbers in nature	Let's have a party
Footsteps	Lucky charms and unlucky theories
Fruit salad	Having a Winning Chance

Guitar frequency	Lunch box maths
Mathematical murder mystery – a wonderful combination of literature and mathematics	The numbers of Uluru
Maths in windmills	The Rapunzel braid
Missing teeth	The show must go on! Can Prep PR save the circus?
Most popular after school activity	The value of bottle caps
Nerf dart analysis	The very hungry caterpillar
Nude food	The walkathon
Olympic world records, can they be beaten?	Toad maths
Olympics-the hidden statistics	Toilet flush
Paper planes	Travelling to high school
Pounding pulses	Uniform combinations
Raising a platypus for one year	Using measurement and coding to make a robot's path
Rubbish is everywhere	What are the effects on housing if the Australian population lived in melbourne?
Shapes, patterns and tessellation	What are the patterns in multiplication?
Sharp shooter goal kicking accuracy	What fractals can be found in nature?
Show me the money	What is the average AFL player?
Sinking into submarines	What is the best D.I.Y homemade boat?
Slime jump	What is the math in taking a perfect selfie?
Sports articles in the newspaper	What maths can we find from reading The Very Hungry Caterpillar?
Tall towers	What will humans look like in 1,000 years?
The 4 little pigs	When an iceberg melts, how does it affect earth?
The algebra behind maths tricks	When the Preps went to the house of the bears
The average grade 5 and 6 shoe	Which petrol is more economical: 91, 95 or 98?
The block-playground edition	Who hurts themselves the most: first, second or third children?
The butterfly effect	The increase in the earth's temperature
The key to the perfect bottleflip	Feli's Fractal

Maths Talent Quest 2019
Answering your Questions

How do I enter the 2019 Maths Talent Quest?

- Download this booklet from the Maths Talent Quest page on the MAWA website: http://mawainc.org.au/maths-talent-quest/
- Read these documents carefully.
- Submit your entries online.
- Registration opens Monday 29th April 2019.

When does registration for the 2019 Maths Talent Quest close?

MTQ registration will close on Friday 2nd August at 5pm. No late registrations will be accepted.

Can my entries be edited once submitted?

Entries may be edited before payment details have been submitted. Once an entry has been registered and paid for, no changes can be made. Any problems, please contact MAWA office.

Can student's names be provided at a later date?

Permitting the entry has not already been paid for, yes student names can be submitted at a later date. Student names and project titles must be submitted with the entry registration and payment.

One of my students has dropped out after registering their entry. Can I get a refund?

Participants who withdraw their entries on or prior to Friday 2nd August 2019 will receive a refund less 50% of the entry fee per each entry. Cancellation must be in writing and include any documentation already sent out. No refunds for cancellation can be made after this date.

What is the maximum number of entries a school can register?

A maximum of 8 entries, per year level will be accepted for state judging.

Does every entry have to include a separate diary or learning log?

It has been decided that the diary/learning log is no longer a compulsory component of the MTQ. We do highly recommend however that students provide reflections and evidence that the work completed is their own.

My project was not selected for entry into the State Competition by my school. Can this same project be entered by another school?

No the schools decision must be respected. Parents and students are welcome to ask their school for feedback and to discuss ways to improve for future years. The school is responsible for selecting the entries to be entered into the State Competition.

What happens if I have a composite grade?

If you have a composite grade, you have two options:

Register the entry under the higher year level

Split the year levels and enter two separate entries

How many students can be involved in an entry?

Individual – One student.

Group – No more than 6 students.

Class – No more than 32 students.

What happens if my class consists of more than 32 students?

Contact the MAWA, we can discuss options for you.

Why do schools have to supply judges?

Each MTQ entry received needs to be judged a minimum of two times. By every school providing a teacher for a minimum of two hours, we can ensure that each entry is judged efficiently and fairly. Judging is a great professional development idea for all involved.

I have registered as a judge, what happens now?

You will be sent a confirmation email closer to the judging date with further information about what is required.

My school has only one entry. Do we still have to provide a Judge?

Yes, all West Australian Metropolitan schools entering must provide a minimum of two hours judging. Regional schools are also encouraged to participate in the judging process.

I am entering 15 entries. How many judges does our school need to provide?

Where schools have more than 10 entries, an extra two hours of judging must be provided for every five extra entries. For example: Schools with 15 entries would have to supply a minimum of four hours judging.

My project includes a model . Will it still be accepted?

Models will not be accepted for the state judging due to the risk of damage and the high cost of postage if selected for national entry. MAWA does accept that using a prototype or model forms an essential part of a mathematical investigation and we encourage students to take photographs of any models that may have been developed within the MTQ. Under no circumstances will entries with food items be accepted.

One of my student's projects is internet/website based, is this OK?

Yes we accept internet and website entries. Computers are supplied at the MTQ judging centre. Please provide some form of hard copy evidence to assist with our organisation. (eg A piece of paper with an URL). It is suggested that Powerpoints are printed out in booklet form for judging purposes.

What are the delivery and collection dates?

Delivery: all entries must be delivered to the MAWA office, 12 Cobbler Place Mirrabooka WA 6061 on Friday 16th & Monday 19th August 2019 between 9am and 5pm.

All entries hand delivered or couriered must be received within these times. Postal entries can be posted to the MAWA office, 12 Cobbler Place Mirrabooka WA 6061 by Friday 16 August.

Collection: all entries (besides those awarded High Distinctions) must be collected on Friday 23rd August or Monday 26th August between 9am and 5pm.

Regional West Australian entries will be returned by post at the expense of the school.

What prizes do the winning entries receive?

State level prizes are awarded to individual, group and class entries in the following categories:

- High Distinction and Distinction: Gift voucher and Certificate
- Credit and Encouragement: Certificate

KEY DATES – 2019	
How can I include MTQ into my maths program? Information Workshops	Friday 29th March – 1:00 – 2:30 MAWA Office Wednesday 10th April – 3:30 – 5:00 John Curtin College of the Arts Wednesday 24th April – 10:00 – 11:30 MAWA Office (School Holidays) Friday 10th May – 1:00 – 2:30 MAWA Office
Registration Opens	Monday 29th April
Registration Closes	Friday 2nd August
Delivery of Entries	Friday 16th & Monday 19th August
State Judging	Tuesday 20th & Wednesday 21st August
Viewing of Entries	Thursday 22nd August
Pick Up of Entries	Friday 23rd & Monday 26th August
National Judging	Friday 13th September
Award Ceremony	TBA

The Mathematical Association of Western Australia Inc.

MTQ

MATHS TALENT QUEST