

# 2021 MAWWA ANNUAL REPORT





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## MAWA 2021 ANNUAL REPORT

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# MESSAGE FROM THE PRESIDENT

JOHN WEST

Despite the unprecedented challenges of 2020, MAWA finished the year in a strong financial position. MAWA benefitted significantly from the support of the Federal Government in the form of JobKeeper which allowed MAWA to maintain its staff and operations despite a downturn in income from student activities and professional learning.

In particular I would like to thank the MAWA staff for their professionalism in going above and beyond the call of duty in working from home while the office was closed, moving MAWA's face-to-face offerings online and ensuring we complied with the government's health and safety requirements when face-to-face activities were able to resume. Just one aspect of this was moving nearly 400 students in the WA Maths Problem Solving Program in the space of just one week.

Although we expected to build on the success of MAWA's inaugural Maths Expo in 2019, the worsening Covid-19 situation clearly impacted on attendance at the 2020 Expo. Looking ahead, the MAWA Board made the cautious decision to plan for a hybrid conference in the event that our annual face-to-face conference could not proceed. Although this was an expensive undertaking, it allowed MAWA to reach out to schools and teachers around WA (and Australia) who have not previously been able to participate in the conference.

Fortunately the 2020 Conference was able to proceed and was a highly successful event in its own right. We learned a great deal from the experience and will be looking at ways in which MAWA's face-to-face and online events and offerings can better complement one another in 2021 as we also expand our network of regional ambassadors across WA.

MAWA continued to expand its student activities in 2020. One significant change that occurred as a result of Covid-19 was to allow individual and home-schooled students to enrol in the Have Sum Fun Online competition which was previously only open to school teams. It

was with great regret that we had to cancel the Maths Empowering Girls Day in 2020. However we are pleased to confirm that in 2021 MAWA has partnered with Curtin University to reach a greater audience than ever before.

MAWA was also pleased to welcome on board a new part-time staff member in 2021. Mr Tom Love has joined MAWA as our new Student Activities Coordinator, who will work with the Student Activities Committee to coordinate MAWA's ever-growing list of student activities.

There remain a number of significant challenges for MAWA in the year ahead, and we thank you for your continued support.



John West  
President



# REFLECTION FROM THE EXECUTIVE OFFICER

PAULA MCMAHON

When I read the report I wrote for the 2020 annual report I stated that '2019 was a year of change and a year of firsts for MAWA'. In hindsight I should have saved that statement to reflect the year of 2020!

Although many aspects of our normal operations were impacted by the global pandemic, we were able to spend time researching and improving our services to members and internal process. We have undertaken a major structural change by implementing a board structure in April of 2020. Together with the Board Directors we now have a comprehensive strategic plan 2020 – 2023, that focuses on membership and partnerships, student activities and engagement, services and resources and operations.

We have continued to work to improve the IT infrastructure throughout 2020 with considerable time spent testing the client management system, website, shop and Have Sum Fun Online. We thank the many users who helped by sharing their experiences interacting with our websites and shop. This has informed our decisions to ask for some additional modifications including an upgrade to the teacher dashboard in Have Sum Fun Online and the member dashboard on the website.

Student activities and professional learning were most impacted by the government restrictions on venue capacity and health regulations. It was pleasing that over the course of the year we were able to conduct all of our student activities, though with lower numbers, except for Maths: Empowering Girls Day. To prepare for the possibility of online learning we expanded Have Sum Fun Online to allow for registrations of individual children so that parents were supported. AAMT and Australian National University were planning to deliver the National Maths Summer School (NMSS) online in January 2021. The MAWA Executive saw this as an opportunity to reinstate the WA Maths Summer School. The lead-in time was short. However, we were delighted to run a residential summer school for a dozen WA students in January

2021. The NMSS committee, UWA representatives and the MAWA Student Activities committee will be working throughout 2021 to grow this event for the future.

The Australian Maths Trust continued to support the WA Maths Problem Solving Program and we thank them for their continued support. At the December presentation ceremony, I was delighted to inform parents, students and special guests that the Primary class was going to be renamed the Praeger class. This is in honour of our patron Emeritus Professor Cheryl Praeger. Cheryl was humbled by this and whilst thanking MAWA she encouraged all students to believe in their mathematics ability and work passionately to achieve their goals.

I am very fortunate to work with a wonderful staff and cannot thank them enough for all they have done to help the Association thrive in a difficult year. The MAWA Board has ensured that together we continue to work towards our mission: A Western Australian community that understands and values mathematics.

In conclusion, I would like to acknowledge the many individuals whose faces are often not seen but their contribution is massive, and these include: Have Sum Fun Face-to-Face coordinators, MCs, supervising teachers and markers, Maths Talent Quest markers and judges, conference committee members, exhibitors, presenters and bag preparers, National Maths Summer School committee members, sharers of social media, proof-readers, authors and our amazing members. I would like to thank the executive committee of John West, Rom Cirillo and Shannon Taylor for their support throughout the year.



Paula McMahon  
Executive Officer

## STUDENT ACTIVITIES

# HAVE SUM FUN FACE-TO-FACE

JACK BANA

The four HSF F2F competitions in 2020 were scheduled for the regular times in Term 1 for Years 5-6, 7-8, 9-10, and 11-12. The Years 11-12 competition was held as normal, but then Covid-19 resulted in the other three competitions having to be transferred to October, where they were still run successfully. Just over 300 teams participated in the four competitions overall.

Our thanks to Bunbury Catholic College for holding all four competitions, and to both Trinity College and Aranmore Catholic College for holding two. Thanks also to All Saints

College, Hale School, Penrhos College, Rockingham Senior High School, Woodvale Secondary College and St Paul's Primary School in Karratha for each hosting one event. We held a competition in the Great Southern region in 2020 for the first time and we thank Albany Senior High School for hosting the event and the many schools near and far for participating. Special thanks to all the teachers at these venues who hosted the events.



YEARS 5 - 6 COMPETITION, PEEL REGION



YEARS 7 - 8 COMPETITION, TRINITY COLLEGE



YEARS 9 - 10 COMPETITION, WOODVALE SECONDARY COLLEGE



YEARS 11 - 12 COMPETITION, BUNBURY CATHOLIC COLLEGE

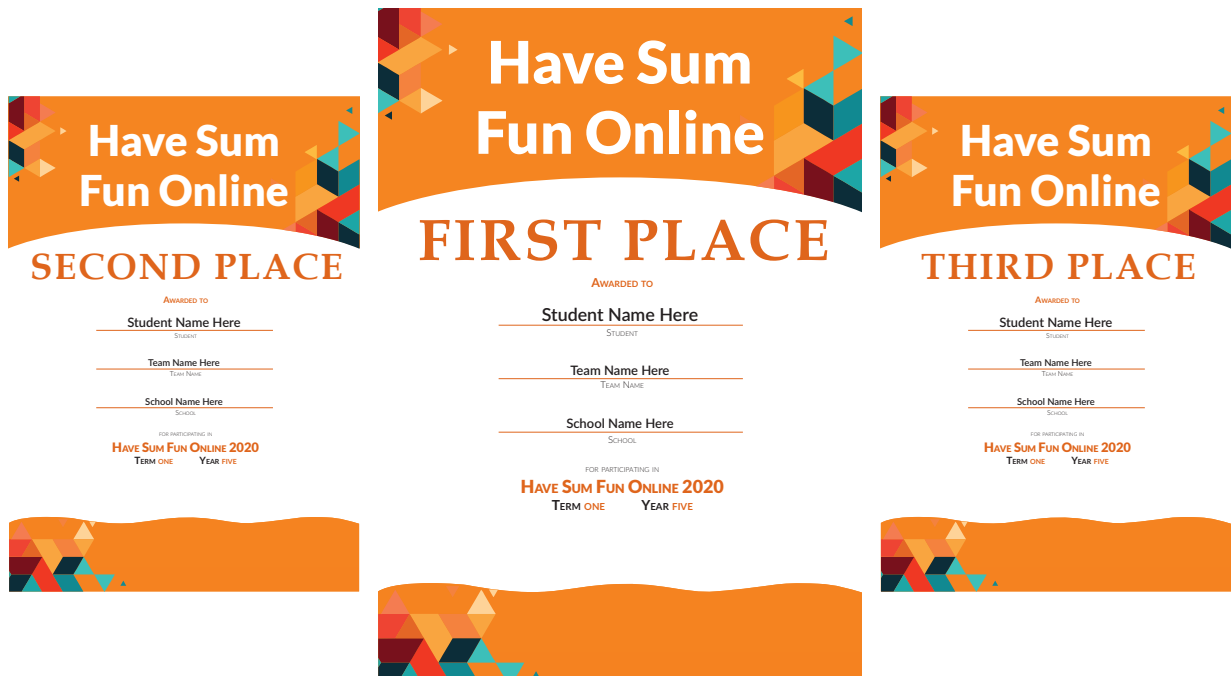
STUDENT ACTIVITIES

# HAVE SUM FUN ONLINE

JACK BANA

The HSFOL team competitions were held as follows: Term 1, Years 5-6; Term 2, Years 5-10; Term 3, Years 3-10; and Term 4, Years 7-10. This amounted to 20 separate team competitions, each with a total of 30 problems in three rounds, and with a balanced representation of the curriculum. There were 935 participating teams, which was a decrease of 2019 numbers, most likely due to changing requirements for school excursions related to Covid-19. The number of participating teams outside of WA is still an area for development.

The great increase in home schooling due to Covid-19, especially in Term 2, prompted us to reshape the HSFOL website to cater for individual students participating from home. There were 160 individual participants over Years 5-10 in Term 2 when so many students were away from school, so this was an encouraging start to the program. However, there were only 100 over all levels in Term 3 and Term 4 combined.



NEW HAVE SOME FUN ONLINE CERTIFICATES

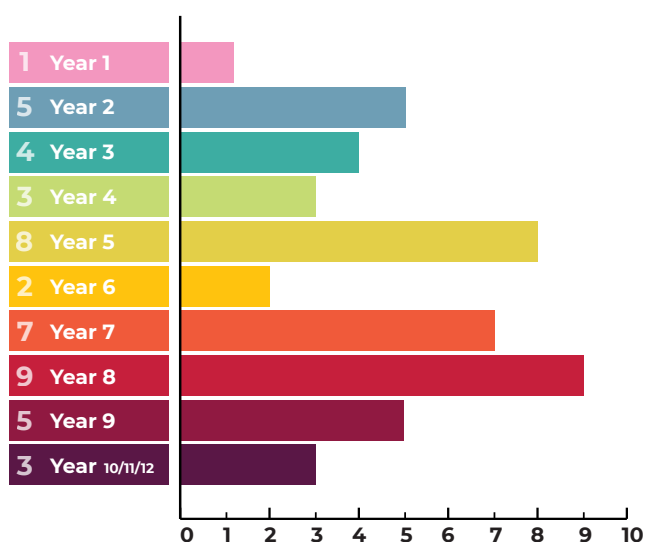


## STUDENT ACTIVITIES

# MATHS TALENT QUEST

DONNA BUCKLEY

2020 provided obstacles and opportunities for Maths Talent Quest. Though the number of entries was less than in 2019 we were delighted to have entries from early childhood classes. The breakdown is below:



ENTRIES INTO MTQ BY YEAR LEVEL (2020)

It was decided to accept only digital entries in 2020. One of the reasons the online format was implemented was to prepare for remote learning and completion at home, if needed. 86% of MTQ coordinators surveyed preferred the digital-only option for MTQ entries in 2020. The mandatory judging for all participating schools ensures the longevity of this student activity. We were able to extend the marking period for judges to one week and thanks to a John Curtin College of the Arts student who developed an electronic marks book.

We conducted free MTQ information workshops and a live stream judging orientation video to support new MTQ Coordinators and judges. Collaboration between MAWA and ECU supports pre-service teachers, who participated in judging, to gain real life experience with the Mathematical and Statistical Thinking Processes.

## 2020 RESULTS:



2020 MTQ RESULTS



*Ashdale Primary School was the outstanding school in 2020*

The 2020 National Maths Talent Quest (NMTQ) judging was hosted by MAWA, thus making the competition truly national. We thank Jen Bowden, from The Mathematical Association of Victoria, for sharing her knowledge of coordinating NMTQ. The NMTQ presentation ceremony was a hybrid event with AAMT CEO, Duncan Rayner, and AAMT President, Lauren Beams, joining us virtually to announce the national winners. MAWA would like to thank Ellenbrook Secondary College for hosting the presentation ceremony.

We congratulate the following who were national winners:

- Year 7 Individual, Can Humans outrun Dinosaurs? – Fremantle College
- Year 8 Individual, Footballs in the World Cup -John Curtin College
- Year 9 Group, SPLASH – Ellenbrook Secondary College
- Year 10 Individual, Has Music Become More Repetitive? – Ellenbrook Secondary College

## STUDENT ACTIVITIES

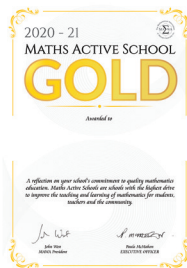
# MATHS ACTIVE SCHOOLS

PAULA MCMAHON

The Maths Active School Program enables schools to demonstrate that they actively extend students and teachers beyond the normal mathematics classroom. Maths Active Schools are now recognised over a two-year period.

Congratulations to the teachers within the schools who achieved Maths Active School status in 2020.

## 2019/2020



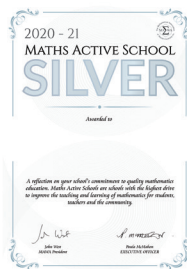
*Iona Presentation College*

*Ellenbrook Secondary College*

## 2020/2021



*Ellenbrook Secondary College*



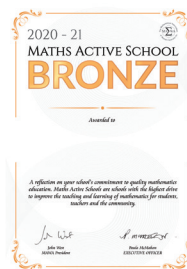
*St Norbert College*

*Carine Senior High School*

*Dun Craig Senior High School*



*St Stephen's School*



*Como Secondary College*

*Christ Church Grammar School*

*Fremantle College*

STUDENT ACTIVITIES

# WA & NATIONAL MATHEMATICS SUMMER SCHOOLS

MARK WHITE



WAMSS GROUP PHOTO

The National Maths Summer School NMSS was held in late January 2021 and due to Covid-19 was held online over eight days. WA had nine students participate in this online summer camp. Next year we hope to have the face-to-face camp in Canberra. Our thanks to the NMSS selection committee, Mark White convener, Ian Hailes, Lu Zhang, Paul Brown, Megan West & Blake Segler.

*“The 53rd National Maths Summer School (NeMeSiS) was a wonderful experience. Every day we had Number Theory lectures in the morning and Algorithms lectures in the afternoon. Both were engaging, enriching, and*

*enlightening. The structure of the course encouraged individual exploration of the concepts that we started in lectures. It was also a great opportunity to meet other maths lovers from across Australia and a number of friendships were formed. We also had the opportunity to speak to our lecturers, tutors, and guest lecturers about how they use maths in their fields of expertise – from economics to medicine – and also their personal paths through those careers. When we were not in lectures/tutorials, we communicated over Discord where we had nightly mafia games. I would highly recommend any*



*enthusiastic maths students in years 10 and 11 to apply."*

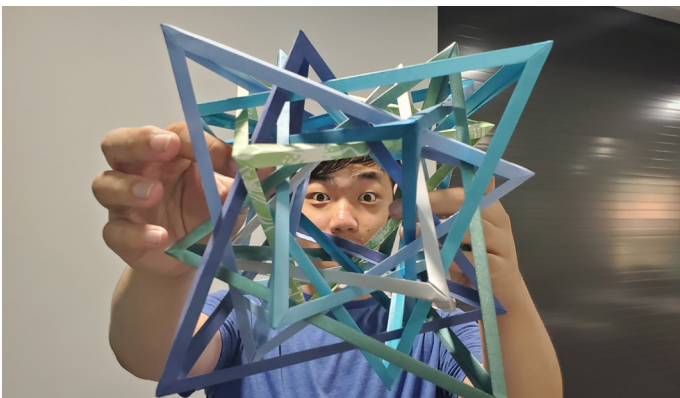
**(Experience of student Elle Chentang who attended the NMSS this year)**

MAWA revived the WA Maths Summer School in January 2021. With support from UWA and Mark White from Perth Modern School, the residential summer school was hosted at Trinity College. Our thanks to Professor Michael Guidici and Emeritus Professor Cheryl Praeger for their support, as well as teachers Lu Zhang, Isaac Kigodi and our guest lecturers Dr Greg Gamble, Dr Geoffrey Pearce and Professor Serena Dipierro, tutors, students and parents for their support.

*"The WA Maths Summer School was an engaging and eye-opening experience where I got to learn about interesting new areas of math while working together and interacting with many like-minded students. Over the course of the five days there, we studied the fields of number theory, minimal surfaces and modular origami, and I really enjoyed taking the time to challenge myself with the problems and try something different to the math we learn at school. It was also a great privilege to be taught by such passionate and skilled mathematicians*

*as Greg Gamble, Serena Dipierro and Geoffrey Pearce. We had our classes in the new UWA Ezone building, which I found really cool, and the Trinity college where we stayed also provided great facilities and food! Last but not least, I loved meeting other mathematically-minded students there and really enjoyed solving the problems with them as well as playing games together in the evenings. Overall it has been an unforgettable experience and I hope the students who take part in future years enjoy it just as much as I did!"*

**(Experience of student Arthur Caspelherr who attended the WA MSS this year).**



STUDENT HAORAN YANG



A LECTURE

## STUDENT ACTIVITIES

# WA MATHEMATICS PROBLEM SOLVING PROGRAM

RACHEL THEUNISSEN



WAMPSP BADGE PRESENTATION

In 2020, the enrolment in the WAMPS program increased by 34% over the 2019 numbers. 2020 saw many challenges, particularly for face-to-face classes. These classes were able to be conducted via Zoom, as Covid-19 restrictions did not allow for face-to-face delivery for an extended period. There was also a continuation of a planned program of expansion of the WAMPS program in 2020, in line with a perceived growing interest and need within the student and parent population. For the first time in 2020 there was an online WAMPSP group based in Queensland. It is pleasing to be able to report that even with this increase in 2020, even more enrolments are expected in 2021. In 2020 a larger pool of teachers was developed in order to meet the needs of the growing number of students.

Our sincere appreciation goes to all the teachers and to

Paula McMahon and the office staff for the extra work undertaken to accommodate more online classes and support the teachers of those classes, and for the further refinement of the Moodle system. Due to the increase in student numbers and workload we will advertise for a Student Activities Coordinator to commence in January 2021.

We would also like to acknowledge the generous financial support provided by the Australian Mathematics Trust (AMT). For 2020, AMT sponsorship has aided the expansion of the Program and allowed for a reduction in fees, as well as funding five student scholarships for worthy students who would otherwise not have been able to access our Program.

It was pleasing that Professor Cheryl Praeger (our Patron)





## AUSTRALIAN MATHS TRUST

SPONSOR AND PARTNER - AMT -  
AUSTRALIAN MATHS TRUST

was available to be our guest speaker for the presentation ceremony in December and, with Dr Norm Hoffman, presented the awards for the Mathematics Enrichment Program to WAMPSP students. Two ceremonies were held for the evening in order to accommodate all recipients and their families during the time of restricted gatherings. As this was the only presentation ceremony able to be held in 2020 the WAMPSP badge presentation also took place at the December presentation ceremony, to award 4-year and 5-year badges to students who have been participants in the program for 4 or 5 years. This event was well attended and MAWA is pleased to be running this student activity (in partnership with AMT) and would encourage all members continue to promote its existence and merit within schools – especially within Primary schools where it is perhaps much less known about.

The tables below provide more details on enrolment trends and show performance data for 2020.

### ENROLMENT

Student enrolment by course			
Class Level	2018	2019	2020
Primary	56	61	116
Junior	53	56	58
Euler	53	91	94
Gauss	27	28	55
Noether	24	23	28
<b>Total</b>	<b>213</b>	<b>262</b>	<b>351</b>
	(+4%)	(+23%)	(+34%)
Queensland			
Euler Online			13

### CHALLENGE RESULTS

(369 STUDENTS)

Class	HD	D	C	P	No Entry
Primary	27 (21%)	28 (22%)	27 (21%)	25 (20%)	19 (15%)
Junior	15 (9%)	24 (15%)	48 (30%)	49 (30%)	26 (16%)
Intermediate	14 (17%)	18 (22%)	22 (27%)	22 (27%)	6 (7%)
<b>Overall</b>	<b>56 (15%)</b>	<b>70 (19%)</b>	<b>97 (26%)</b>	<b>96 (26%)</b>	<b>51 (14%)</b>

### ENRICHMENT RESULTS

(351 STUDENTS)

Class	HD	D	C	P	No Entry
Primary	9 (8%)	16 (14%)	30 (26%)	47 (41%)	14 (11%)
Junior	5 (9%)	9 (16%)	27 (46%)	15 (26%)	2 (3%)
Euler					
Euler (QLD)	8 (9%)	10 (11%)	14 (15%)	54 (57%)	8 (8%)
Gauss	0 (0%)	2 (4%)	15 (27%)	30 (55%)	8 (14%)
Noether	3 (11%)	4 (14%)	12 (43%)	9 (32%)	0 (0%)
<b>Overall</b>	<b>7%</b>	<b>11%</b>	<b>29%</b>	<b>44%</b>	<b>9%</b>

# WA ANNUAL MATHS CONFERENCE

WENDY PERO

The WA Annual Conference was held at the Crown Convention Centre from 25-27 November. 2020 was an extraordinary year and MAWA took up the challenge to present a hybrid conference whereby delegates could attend in person or virtually. The theme “Maths Takes You Places” highlighted the importance of mathematics in dealing with an increasingly complex world where disruption is fast becoming the norm.

MAWA was pleased to have two highly respected educators, James Russo and Amie Albrecht, deliver the keynotes from their home states of Victoria and South Australia respectively. The HOLA Forum included presentations and facilitated discussions. The conference offered a varied program and delegates were able to choose from 64 different workshops covering a broad range of topics delivered by quality presenters, including many sessions available for virtual delegates.

Thank you to silver sponsors Casio and the Australian Maths Trust, and to all other exhibitors and presenters for their support. Further thanks to committee members and office personnel for their valuable assistance in planning and hosting this event. Given the circumstances and restrictions in place due to the Covid-19 pandemic, the number of attendees was lower than previous years, but the conference continues to evolve and the committee is to be commended on another successful event. It is hoped that in the future we can attract more virtual delegates. MAWA is committed to fulfilling our aim of delivering high quality professional learning that meets the needs of our members.

## ATTENDANCE:

HOLA Forum (Wednesday): 88 face-to-face and 19 virtual delegates

Secondary Conference (Thursday): 301 face-to-face and 24 virtual delegates

WA Annual Maths Conference (Friday): 316 face-to-face and 35 virtual delegates



MAWA STALL



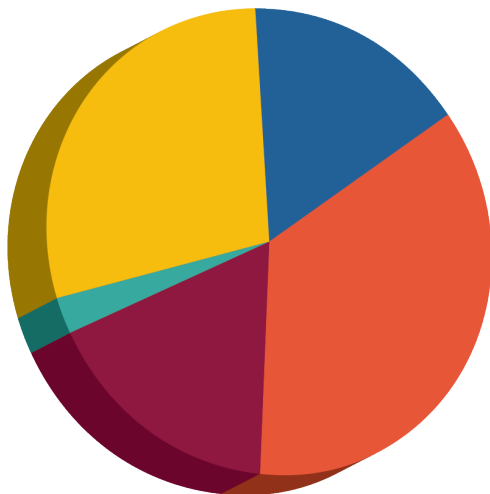




# MEMBERSHIPS

PAULA MCMAHON

During 2020 the new Customer Relationship Management (CiviCRM) software was implemented. There have been substantial issues with the accuracy of the data as a result of transferring it from File Maker to the CiviCRM. We are confident that no data was lost during the transfer process, however, we have been working with the IT developers to improve the accuracy of the data. At the time of preparing the annual report we were unable to obtain accurate membership numbers from the CiviCRM. However, we are confident in the accuracy of the data within Xero, our accounting software.



**252** Family

**22** Life / Business / Reciprocal

**148** Institutional

**312** Student

**140** Individual

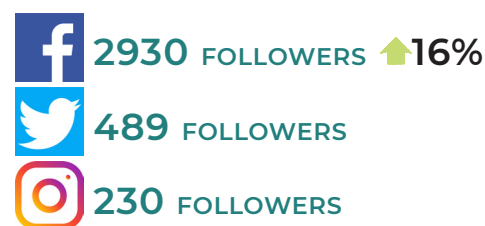
This information supports the trend that office experienced with customers opting to not renew membership in 2020 due to uncertainty of activities and events proceeding and restrictions schools implemented regarding excursions and teacher professional learning.

In December, we commissioned the IT developers to improve the functionality and presentation of the member dashboard. It is anticipated that the new dashboard will be available by beginning of June 2021. One of the key features will be that institutional members will be able to upload a file of current staff members and the email addresses. We strongly believe that this will increase the effectiveness of our email campaigns because emails will be sent directly to teachers rather than just the primary contact.



# SOCIAL MEDIA ADVERTISING

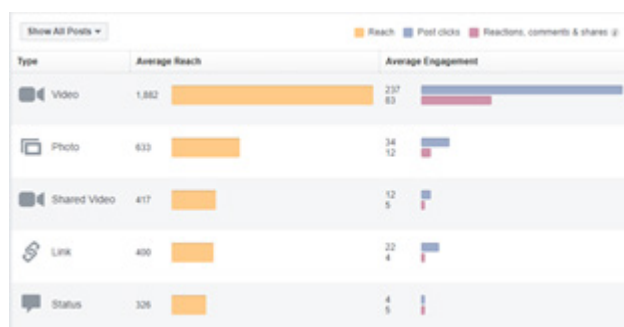
DION ALFONSI, DONNA BUCKLEY AND RACHAEL WHITNEY-SMITH



MAWA has a presence on three social media platforms – Facebook, Twitter and Instagram.

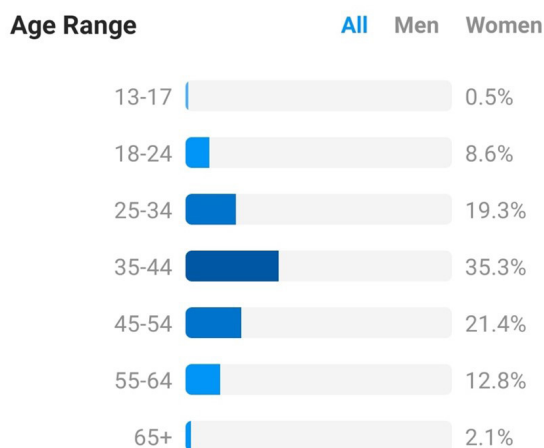
MAWA Facebook page has been a good source of communication, advertising and engagement with our members and the general public and was rated as 5 out of 5. Facebook data shows that our Facebook fans are online predominantly between 3 in the afternoon until the early hours of the morning.

The type of posts that our Facebook followers react to and share are videos and photos



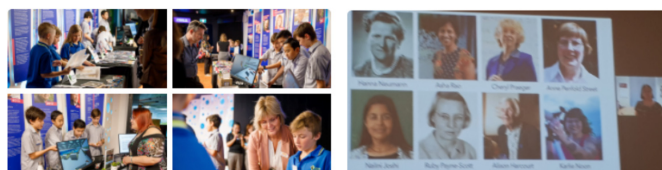
We spend a minimal amount \$220 over the year to boost advertising of key events such as WAMPSP registrations and conference. This saw an increase in reach, engagements and link clicks.

MAWA Instagram has ongoing “untapped” potential as a social media platform. The demographic of followers is 77% female with more than 57% from Perth. The age range of Instagram followers is normally distributed.



MAWA Twitter has been a growing source of communication throughout 2020. In the time period March to December, we had 691 engagements and 35 400 tweet impressions or reaches. There was a distinct spike in engagements and impressions during the WA Annual Maths Conference in November.

The highest Tweet impressions were the launch of the STEM Learning Project resources and the Women in Maths slide from Amie Albrecht's keynote at the conference.



Twitter is the preferred social media platform for educators; however, Facebook gives us most success in terms of advertising for events and converting this to registrations, sales or engagement with MAWA activities. We recognise that LinkedIn is professional social media platform and as such is an avenue worth exploring for sponsorship prospects. Over the next year, we endeavour to expand our presence and reach via Instagram and diversify our social media audience.

As part of the social media strategy MAWA has created a number of hashtags for major events and advertise these through printed and digital means. In the past two years MAWA has developed memorandums of understanding with a variety of businesses and sharing our social media posts has been included.

# PUBLICATIONS

During 2020 MAWA decided to not reprint Essential Mathematics Unit 1 and 2 as the book needed significant updating to ensure that the mathematical thinking process and statistical investigation process were embedded in lessons. At the time of the decision there was ample stock to cover the 2021 back to school demand. Unfortunately, we were unable to meet the demand for the hard copy of the book, but we continued to offer the book electronically.

Late in 2020 Interleaved Maths Essential Connections 11 was a new addition to The Maths Store. The student book and teacher guide were reviewed by several WA teachers and the feedback was very positive.

In partnership with The Australian Association of Mathematics Teachers (AAMT) we have created a joint online shop 'The Maths Store'. Hence expanding the selection of outstanding resources that are now available for Western Australian teachers to consider.

MAWA is delighted to have added a variety of new games to our collection and maths stickers are once again available. To support parents and teachers we have added a variety of videos to our website that demonstrate games to encourage mathematical thinking whilst having fun.



MAWA STICKERS

# PROFESSIONAL LEARNING

PAULA MCMAHON

2020 provided many challenges for everyone and the impact of Covid-19 had a substantial impact in the area of professional learning and consultancy. All face-to-face professional learning in schools was cancelled for late Term 1 and all of Term 2. This provided a unique opportunity to explore different ways of delivering professional learning including live online and pre-recorded workshops. As teachers become used to this style of professional learning MAWA was able to engage consultants from other states including fabulous workshops conducted by Leonie Anstey and Michael Minas.

A series of workshops that focused on maths pedagogy was organised with all sessions being hosted face-to-face at Ziggies Educational Supplies. This series used a variety of presenters including Paul Swan, Chris Hurst, Derek Hurrell, Lorraine Day, Julie Richards, David Dunstan and John West. We thank Ziggies for the kind donation of the venue and our wonderful presenters. All other professional learning in 2020 was delivered by the MAWA Executive Officer or a member of the MAWA board.

We provided professional consultancy to two school in the metropolitan area and one country school. MAWA continued to provide a sessional lecturer for University of Notre Dame Australia for both semesters. The WA Association of Teacher Assistants contacted us to run two workshops for their members. These sessions were conducted online and attended by over 40 teacher assistants from across WA.

Classroom Corners was a new initiative for 2020 and though the numbers were small the feedback has encouraged us to continue in 2021. The workshops are free for members and as a result several schools have purchased memberships.

Though it was not possible to attend conferences during 2020 I engaged with many online professional learning sessions conducted by presenters in Australia, United States and United Kingdom. I strongly believe that though teachers prefer face-to-face professional learning the

ability to offer and deliver online workshops needs to also be considered in our calendar of professional learning.

## Statistics:



**57 sessions** at University of Notre Dame,



**40 PL workshops,**



**6 student workshops,**



**12 parent workshops** or information sessions,



**6 PL sessions** with networks.



TEACHERS, PARENTS AND STUDENTS AT WORKSHOPS.

# OFFICE REPORT

SHANNON TAYLOR

In 2020, the MAWA Office again embraced a jam-packed calendar in our quest to expand our products and services offering throughout WA and beyond. The office environment continued to be a very busy hub of activity and excitement. We welcomed Tanya Condo to the MAWA team as an Office Associate, to work alongside Holly in managing the admin side of student activities and our accounts.

The year started off well, but we soon faced several hurdles due to Covid-19. Whilst Paula and Holly continued to work from the office, Tanya, Mario, and I worked from home for an extended period. During that time, the MAWA team became very skilled in the use of Zoom for online meetings and PL delivery. We also worked very hard to adapt as many of our face-to-face activities to online activities, including the expansion of those online activities.

We hosted our second Mathematics Expo at the Crown Convention Centre which was not as well as attended as our 2019 Expo but given the Covid-19 restrictions that were in place, we were happy with the attendance. Despite everything, we were once again well supported by our exhibitors, with Maths Australia being our Gold Sponsors for the second year running.

The Mathematics Pathways Information Evenings that were face-to-face were cancelled but we offered one virtually and the recording to any other families who missed it or had registered for the other sessions.

Maths Meets got a little tricky in the unusual year that was 2020 which saw attendance decline. This prompted us to host our first ever virtual Maths Meet with Jody Crothers as our special guest. We are looking to host a few more regional Maths Meets in conjunction with the outreach work we are engaging in during 2021.

Robert Berwick, our Great Southern regional ambassador did a wonderful job of launching Have Sum Fun in Albany late in the year. His local knowledge matched with his

expansive network within the region, makes him the right person for the job and hence he has committed to running competitions for Years 7-12 in 2021.


The launch of our new website in September 2020 added a few extra challenges and pressure on the office as we are now managing most website updates in-house. The roll out of our Customer Relationship Management (CRM) has been great in centralising our database and providing a membership, event, and activity history for our customers and MAWA staff. We have contracted James Anthony Consultants to complete a few additional updates and tasks to make the CRM even more friendly for our organisation, and we are looking forward to the final product, a workable system that will maximise staff efficiency.

We were very lucky to be able to host our WA Annual Maths Conference in 2020. We may have been a little ambitious with our first hybrid conference, but it was something that had been on the radar for several years. Being able to offer quality professional learning to remote and regional schools in WA means that location is no longer a barrier and MAWA can connect with teachers all over WA. We plan to continue this virtual offering, but the structure will likely change a little to consider lessons learned from this year's hybrid conference.


Overall, MAWA continues to be an innovative, vibrant, and progressive organisation that is continually growing in our offerings. When you consider all the events that are run throughout the year, all administered by a very small and hardworking team of staff and our wonderful volunteers, it really is incredible to see how much we have grown in the past few years. Thanks to everyone for their hard work and dedication, and I look forward to a productive 2021.




[f](#) [i](#) [c](#)


**The Mathematical Association of Western Australia**

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### Current Events




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MATHS TALENT QUEST

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**MATHS**  
EMPOWERING GIRLS

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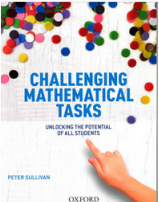
 
**The Maths Store**
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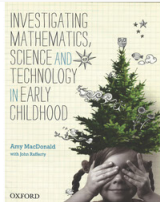
Early Years (Years K-2)	Primary Years (Years 3-6)	Middle Years (Years 6-10)	Senior Secondary (Years 11-12)	Teacher Resources	Professional Development	General Interest	Games & Puzzles	Latest Publications	Merchandise
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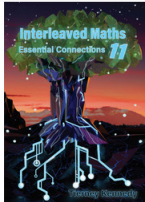
### Featured Items




**Challenging Mathematical Tasks: Unlo...**  
AAMT, Books, Professional Development,  
Members: \$70.40  
Non-members: \$88.00



**Investigating Mathematics, Science a...**  
AAMT, Books, Pre-Primary, Professional  
Members: \$73.60  
Non-members: \$92.00



**Interleaved Mathematics Essential Co...**  
MAWA, Newest resources, Student Level, Year  
Members: \$54.00  
Non-members: \$60.00



**2020 Primary Conference Session Rec...**  
Audiovisual Resources, MAWA, Professional  
Members: \$270.00  
Non-members: \$540.00

THE MATHS STORE - PARTNERSHIP WITH AAMT

# MAWA MATHS AUSTRALIA EXPO

JOHN WEST & PAULA MCMAHON

MAWA's second Mathematics & Careers Expo was held on Sunday 15 March 2020 at the Crown Convention Centre. We are particularly thankful to the exhibitors, students and volunteers who helped to make this yet another successful event. MAWA is also grateful to the Crown staff for their assistance in conducting an event in line with the government recommendations aimed at curbing the spread of the coronavirus.

Despite the challenges posed by the virus which no doubt resulted in reduced attendance, we had approximately 25 families through in the morning session and approximately 50 families attended the afternoon session. The smaller numbers meant that visitors had plenty of opportunities to explore the board and card games on display (including Numero, Take Sum Risks, and Sum Genius), build and fly paper planes, assist with the building of the geodesic dome, program robots, and hear about the WA Mathematics Problem Solving Program.

EXPO ATTENDEES PARTICIPATING AND LEARNING.





# FINANCIAL OVERVIEW

ROM CIRILLO

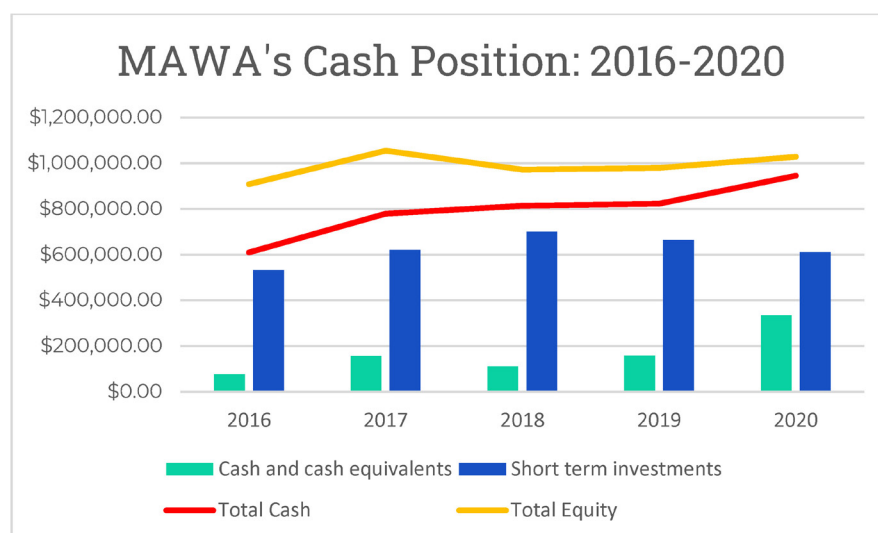
Treasurer's report for the AGM of the 2020 financial year

I am pleased to report that MAWA continues to be in a sound financial position and that while 2020 was a profitable year, this was mainly due to the financial support received resulting from the government stimulus relating to the Covid-19 situation. While showing a small profit of ~\$49k, our income decreased by ~\$162k over 2019 if the Covid-19 stimulus payments of \$181k are excluded. This represents an income drop of 17.8% over the 2019 income.

However, our expenditure also dropped (2.5% on 2019), largely due to reduced administration costs of ~\$52k. Overall, it is clear that we were only able to retain our staff and continue to provide most of our normal services while avoiding a loss-making year, because of the government stimulus, for which we are all thankful, I am sure.

A graphical 'snapshot' of our financial position is illustrated by the graph below comparing our cash position and total equity 2016-2019.

More 'fine-grain' details may be viewed in the Income and Expenditure statement and the Assets and Liabilities Statement included in the audited financials that follow. It was pleasing to report that our auditors/reviewers certify that the appended financials give a true and fair view of the financial position and performance of The Mathematical Association of Western Australia (Inc) during and at the end of the financial year of the association ending on 31 December 2020.



I would like to thank the members of the Finance Committee: Mario Ravat, Finance Officer, Shannon Taylor, Corporate Manager, Paula McMahon, Executive Officer, and John West, President, for their commitment, dedication and attention to detail. They have collectively contributed to a job well done in monitoring and guiding the financial wellbeing of our Association and this has resulted in the role of Treasurer being much easier than it may otherwise have been.

# Independent Assurance Practitioner's Review Report

## The Mathematical Association of Western Australia (Inc) For the year ended 31 December 2020

### Independent Assurance Practitioner's Review Report to the members of the Association

We have reviewed the accompanying financial report, being a special purpose financial report, of The Mathematical Association of Western Australia Inc (the association), which comprises the board member's report, the assets and liabilities statement as at 31 December 2020, the income and expenditure statement for the year then ended, cash flow statement, notes comprising a summary of significant accounting policies and other explanatory information, and the certification by members of the board on the annual statements giving a true and fair view of the financial position and performance of the association.

### Board's Responsibility for the Financial Report

The board of The Mathematical Association of Western Australia Inc is responsible for the preparation and fair presentation of the financial report, and has determined that the basis of preparation described in Note 1 is appropriate to meet the requirements of the *Australian Charities and Not-for-profits Commission Act 2012* (ACNC Act), the *Associations Incorporations Act 2015 (WA)* and is appropriate to meet the needs of the members. The board's responsibility also includes such internal control as the board determines is necessary to enable the preparation and fair presentation of a financial report that is free from material misstatement, whether due to fraud or error.

### Assurance Practitioner's Responsibility

Our responsibility is to express a conclusion on the financial report based on our review. We have conducted our review in accordance with Australian Auditing Standards on Review Engagements *ASRE 2415: Reviews of Financial Report: Company Limited by Guarantee or an Entity Reporting under the ACNC Act or other Applicable Legislation or Regulation*. Those standards require us to conclude whether anything has come to our attention that causes us to believe that the financial statements, taken as a whole, are not prepared in all material respects in accordance with the requirements of Division 60 of the *Australian Charities and Not-for-Profits Commission Act 2012* and the *Associations Incorporations Act 2015 (WA)*. This Standard also requires us to comply with relevant ethical requirements relating to review engagements and plan and perform the review to obtain reasonable assurance whether the financial report is free from material misstatement.

A review of financial statements in accordance with ASRE 2415 is a limited assurance engagement. The assurance practitioner performs procedures, primarily consisting of making enquiries of management and others within the entity, as appropriate, and applying analytical procedures, and evaluates the evidence obtained.

The procedures performed in a review are substantially less than those performed in an audit conducted in accordance with Australian Auditing Standards. Accordingly, we do not express an audit opinion on these financial statements.

### Independence

In conducting our review we have complied with the independence requirements of the *Australian Charities and Not-for-Profits Commission Act 2012*, *Associations Incorporations Act 2015 (WA)* and any applicable code of professional conduct in relation to the review.

### Conclusion

Based on our review, which is not an audit, nothing has come to our attention that causes us to believe that the financial report of association does not satisfy the requirements of Division 60 of the *Australian Charities and Not-for-profits Commission Act 2012* and the *Associations Incorporations Act 2015 (WA)* including:

1. giving a true and fair view of the associations financial position as at 31 December 2020 and of its financial performance and cash flows for the year ended on that date; and
2. complying with Australian Accounting Standards to the extent described in Note 1 and Division 60 of the *Australian Charities and Not-for-profits Commission Regulations 2013*.

**Basis of Accounting and Restriction on Distribution**

Without modifying our conclusion, we draw attention to Note 1 to the financial statements, which describes the basis of accounting. The financial report has been prepared to assist The Mathematical Association of Western Australia (Inc) to meet the requirements of the *Australian Charities and Not-for-profits Commission Act 2012* and the *Associations Incorporation Act 2015 (WA)*. As a result, the financial report may not be suitable for another purpose.




**Michael Ng**  
Griffin O'Dea Bowler  
391 Goodwood Rd, Westbourne Park, SA

Dated: 17th March 2021

**True and Fair Position****The Mathematical Association of Western Australia (Inc)  
For the year ended 31 December 2020****Annual Statements Give True and Fair View of Financial Position and Performance of the Association**

We, John West, and Rom Cirillo, being members of the board of The Mathematical Association of Western Australia (Inc), certify that –

The statements attached to this certificate give a true and fair view of the financial position and performance of The Mathematical Association of Western Australia (Inc) during and at the end of the financial year of the association ending on 31 December 2020.

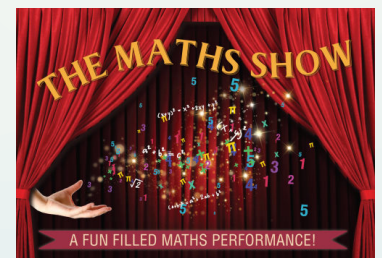
Signed: 

Dated: 9 / 4 / 2021

Signed: 

Dated: 9 / 4 / 2021

# OUR PARTNERS AND SPONSORS



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# ORGANISATIONAL STRUCTURE

## BOARD AND ASSOCIATION STAFF

### BOARD

Position:	Name:
President	John West
Treasurer	Rom Cirillo
Board Directors	Dion Alfonsi
	Jack Bana
	Robert Berwick
	Donna Buckley
	Wendy Pero
	Lesley Stoffels
	Rachel Theunissen
	Rachael Whitney-Smith

### ASSOCIATION STAFF

Position:	Name:
Executive Officer	Paula McMahon
Corporate Manager	Shannon Taylor
Accounts Adviser	Mario Ravat
Office Associate	Holly Hughes
Office Associate	Tanya Condo
Web Maintenance & Graphic Design	Leighland Swan

