



# AGM Tuesday 8<sup>th</sup> December 2020

## PRESIDENT'S REPORT

---

### Our Association

The Mathematical Association of South Australia Inc. (MASA) is the SA Affiliate of the Australian Association of Mathematics Teachers Inc. (AAMT). MASA is not-for-profit professional association which has a focus of improving the quality of mathematics education in South Australia.

---

### Our Mission

The Mathematical Association of South Australia's aims are to:

- Arouse interest in mathematics.
- Effect improvements in the teaching of mathematics and its implications.
- Provide means of support and intercommunication between teachers, students, and educational institutions, including schools.
- Advance the view that mathematics is an important field of study and promote the learning of mathematics.

---

### Our Vision

To encourage lifelong learning of mathematics for students, teachers, and the greater community.

---

### Contents

STRATEGIC PLAN	2
MEMBERSHIP	5
PROFESSIONAL LEARNING	5
RESOURCE DEVELOPMENT	7
STUDENT ACTIVITIES	8
OFFICE STAFF	9
COMMITTEE	9
SPECIAL THANKS	10
OUR FUTURE	11

# MASA STRATEGIC PLAN 2019-2021

## MISSION

- Arouse interest in mathematics
- Effect improvements in the teaching of mathematics and its implications
- Provide means of intercommunication between mathematical students and teachers for this purpose
- Advance the view that mathematics is an important field of study and promote the learning of mathematics.

## VISION

To encourage lifelong learning of mathematics for students, teachers and the greater community.

STUDENTS	TEACHING	RESOURCES	MEMBERSHIP	CONNECTIONS
<i>Increase student engagement in mathematics</i>	<i>Impact the teaching of mathematics</i>	<i>Provide a range of quality resources</i>	<i>Support the members of our mathematics community</i>	<i>Develop stronger connections with the broader community</i>
1.1 Support schools to increase engagement in mathematics	2.1 Provide quality professional learning through conferences and workshops	3.1 Review and develop quality mathematics resources	4.1 Establish networking events for a diverse range of mathematics teachers	5.1 Build connections with pre-service teachers through the state universities
1.2 Increase participation in mathematics competitions	2.2 Increase professional learning opportunities for primary teachers	3.2 Collaborate with industry to develop STEM resources	4.2 Facilitate professional discussions with mathematics leaders	5.2 Collaborate with government, associations, industry and educators on mathematical content
1.3 Promote involvement of primary in mathematics competitions	2.3 Establish a mentoring program to support new mathematics teachers	3.3 Develop advertising strategies to reach the broader mathematics community	4.3 Review membership structures and the governance	5.3 Collaborate with SACE leaders to support the professional learning of the community
1.4 Provide opportunities for families to engage with mathematics	2.4 Facilitate school hosted professional learning	3.4 Update the MASA website to meet the needs of the community	4.4 Review our use of Facebook and develop protocol	5.4 Build strong connections with AAMT and affiliates

---

## Strategic Plan

We have entered the second year of our 3-year Strategic Plan. Our goals are based on five main areas: **Students, Teaching, Resources, Membership and Connections**. Details of our progress on achieving these goals is below:

### STUDENTS

- MASA Quiz Night moved to a flexible delivery for the Senior division to allow more schools to be involved given the new social distancing requirements.
- The addition of a third division to the Quiz Night allowed Year 7 and 8 students greater access to the questions. These divisions were available to schools for internal competitions only this year.

### TEACHING

- Conferences and Workshops were moved to online to cater for the need for professional learning when social distancing restrictions increased.
- Professional learning supported a range of needs:
  - New Maths Leaders Workshop
  - Future of Mathematics Examinations Workshop Series
  - Planning and Presenting Professional Learning Workshop Series
  - Big Ideas in Number Workshops (Primary and Secondary)
  - Mathematics Leaders Forum
  - Year 12 Conferences
  - Primary Mathematics Conference
  - Test-writing for new teachers
  - Calculus concepts and calculators
  - Combining S.T.E. and M through the use of design challenges
  - Sequences, series and calculators
  - Using SCINEMA films to put maths in context
  - Power of matrices and their real power
  - Specialist Mathematics
  - General Mathematics
  - Inquiry Mathematics through Origami
- The Remote and Rural Schools Mathematics Program (RRSMP) reached Hawker, Renmark, Burra, Clare, Cooper Pedy, Kangaroo Island and Kangaroo Inn this year. This free program is kindly funded by the Education Minister, Hon John Gardner.
- The Primary Conference was run for the second year in a row.
- MASA facilitated professional learning at Parkside Primary, Christian Brothers College ELC, Craigmore High School, Coober Pedy and Elizabeth North Primary School.

### RESOURCES

- Revision Guides were updated for 2020.
- Trial Exams for Year 12 Essential Mathematics, General Mathematics, Mathematical Methods and Specialist Mathematics were written.
- The MASA website continues to be updated and improved.
- The free library at the MASA office is ready to officially open in 2021.

## **MEMBERSHIP**

- Constitution changes were approved.
- Mathematics Leaders forums were held each term for members.

## **CONNECTIONS**

- We continue to work with Educators SA and the Department for Education to review the development of resources for mathematics teachers.
- Meetings with SACE representatives were held to gain a greater insight into the future of mathematics.
- Regular meetings were held with AAMT and the affiliates.
- We worked together with SASTA and SASPA planning 2020 joint professional learning. These were postponed for 2020 and will be resumed in 2021.
- Connections with University of Adelaide, AMT and Maths Teacher Circles are being developed.

---

## Membership

The memberships for Individual and Institutional have decreased this year. We are in our second year of offering free student memberships. Effort was placed on advertising this free initiative in 2020 and as a result our Student memberships have increased dramatically. It is hoped that these memberships will promote the good work of our Association and increase our paid membership numbers when the Student members graduate.

<b>MASA Members</b>						
	<b>2020</b>	<b>2019</b>	<b>2018</b>	<b>2017</b>	<b>2016</b>	<b>2015</b>
Individual	128	138	150	142	139	124
Institutional	124	131	136	135	120	104
Student	92	58	24	40	27	19
<b>Total</b>	<b>344</b>	<b>327</b>	<b>310</b>	<b>317</b>	<b>286</b>	<b>247</b>

Our membership includes over 31% from Department schools, 19% from Independent schools and 12% from Catholic schools. These values have remained consistent with the 2019 proportions.

---

## Professional Learning

In 2020 restrictions due to COVID-19 have added extra complexity for the Association in the planning and facilitation of professional learning. Despite the challenges we have still offered a range of professional learning opportunities for both our members and the wider mathematics community.

### **Annual Conference**

2020 – Cancelled due to COVID-19 government restrictions

### **Primary Teachers Conference**

2016 (St Peters Junior School) Attendance: **83** teachers; **17** presenters

2019 Primary Teachers Conference (Parkside Primary) **58** teachers; **14** presenters

2020 Primary Teachers Conference (Parkside Primary) **38** teachers **15** presenters

### **STEM Conference Years 6-11 (SASTA/MASA)**

2020 - Cancelled due to COVID-19 government restrictions

### **Year 12 Conferences at in February/March**

2015 attendance **169** (Cabra)

2016 attendance **157** (Cabra)

2017 attendance **195** (Cabra)

2018 attendance **292** (Cabra)

2019 attendance **296** (Mercedes)

2020 attendance **300** (Unley High School)

### **Mathematics Leaders Forum**

Term 1 Unley High School - **12** registrants

Term 2 30/4/20 - **12** registrants (Zoom)

Term 2 7/5/20 - **21** registrants (Zoom)

Term 3 - **13** registrants (Zoom)

Term 4 MASA - **14** registrants (meeting room and Zoom)

### **Future of Mathematics Exams Workshop Series**

**21** attendees by Zoom or in-person

### **Big Ideas in Number Primary Zoom Workshops with Helen Booth:**

14/5/20 – **19** Registrants

21/5/20 - **24** registrants

28/5/20 - **24** registrants

1/7/20 - **50** Registrants

### **Big Ideas in Number secondary Zoom workshops with Helen Booth**

14/5/20 – **27** registrants

21/5/20 – **26** registrants

28/5/20 – **26** registrants

1/7/20 – **39** registrants

### **Stage 2 General Maths Zoom workshop with Sam Capurso**

23/5/20 – **22** registrations

### **New Maths Leaders Zoom workshop with Rebecca Garrett**

27/8/20 – **8** registrants

### **Online workshops for teachers of Secondary School Maths**

6/8/20 – Calculus concepts and calculators with Barry Kissane – **15** registrants

13/8/20 – Combining S.T.E. and M through the use of design challenges  
with Jennifer Chalmers – **14** registrants

13/8/20 – Sequences, series and calculators with Barry Kissane – **13** registrants

20/8/20 – Using SCINEMA films to put maths in context – **13** registrants

20/8/20 – Power of matrices and their real power with Constantin Naum – **14** registrants

10/9/20 – Specialist Maths with Deb Woodard-Knight – **21** registrants

**Test-writing for new teachers of mathematics with Sam Capuso and Lauren Mazzarolo – 9**  
registrants

**Planning and presenting Maths Professional Learning 3-part course with Maryanne**  
**Rischmueller – Term 4 - 8** registrants

### **Inquiry Mathematics through Origami with Jarrad Strain**

Term 4 – **11** registrants

## **Remote and Rural Schools Mathematics Program (RRSMP)**

### Hawker:

Consultants: Graham Broughton

Attendees: 1 teacher

### Renmark

Consultants: Helen Booth and Tom Frossinakis

Attendees: 8 teachers

### Burra and Clare

Consultants: Helen Booth and Vanessa Gorman

Attendees: 6 teachers

### Whyalla

Consultants: Helen Booth and Diane Howarth

Attendees: 12 teachers

### Coober Pedy x 2

Consultants: Helen Booth

Attendees: 13 teachers on first trip, 11 teachers on second

### Kangaroo Island x 2

Consultants: Helen Booth and Tom Frossinakis on trip 1, Helen Booth on trip 2

Attendees: 11 teachers on trip 1, 6 teachers on trip 2

### Kangaroo Inn

Consultants: Helen Booth and Diane Howarth

Attendees: 5 teachers

Additionally, MASA was involved in several other professional learning opportunities in 2020:

- Working with Educators SA and Department for Education on the review of resources for the Australian Curriculum.
- In school professional learning facilitated:
  - Parkside Primary
  - Christian Brothers College Early Learning Centre
  - Craigmore High School
  - Coober Pedy (additional visit not covered by RRSMP funding)
  - Elizabeth North Primary School

---

## **Resource Development**

New resources in 2020 included:

- Trial exams
- Revision Guides
- Year 7 Sample Unit – Assessment Tasks for Number
- Year 12 General Maths Content

---

## Student Activities

Student activities included five elements this year:

- Hamann Schools Maths Competition sponsored by SPE
- MASA Quiz Night
- National Mathematics Summer School
- SAMTQ and JSMEP competitions
- Saturday Morning Problem Solving

**Hamann Schools Maths Competition (HSMC)** – sponsorship SPE \$5000.00 held in August

Year	total	Primary	Junior	Intermediate	Senior
2015	2288	361	506	859	562
2016	2309	301	651	943	414
2017	2637	311	748	1051	527
2018	2819	375	786	1035	623
2019	2469	358	703	959	449
2020	2762	177	1103	1018	464

**MASA Quiz Night** held in August

Year	Venues	Schools participating	Junior teams	Senior teams	Total students
2015	13	30	162	118	1140
2016	15	52	205	140	1380
2017	13	59	227	156	1532
2018	15	49	227	176	1612
2019	16	62	244	176	1680
2020	51*	51	26*	25*	UNKNOWN

**The National Mathematics Summer School** was in Canberra in January 2020.

**3** students represented South Australia.

**SAMTQ/JSMEP** – offered again during Term 3 with sponsorship from DfE of \$10,000 pa. This year saw very high standard entries with awards being presented across several schools. One SA student received the National Prize in his year level.

**10** schools comprising **139** students, participated, and **76** projects were entered.

**Saturday Morning Problem Solving** held one session this year in March. 31 students registered to attend. Due to COVID-19 government restrictions the following sessions were cancelled. Sessions will resume in 2021.



---

## Office Staff

Patricia Chigwidden and Jackie Carletti continue to be assets to the Association. Their dedication to their responsibilities and our members is essential to the efficiency of our Association. Patricia has advanced her technology skills this year to develop her skills in online surveys, online meetings, and interactive whiteboards. Jackie's willingness to step up and support Helen, Patricia and the volunteers is appreciated. Thank you to both Patricia and Jackie, we appreciate everything that you both do to keep the Association running so smoothly.

The Association welcomed Helen Booth to the team this year in her role as Professional Officer. Helen's efforts to connect with primary teachers and remote schools have been greatly appreciated. She has researched, planned, and facilitated many professional learning sessions. Her contributions to support the remote mathematics teachers of South Australia through the RRSMP are the most significant. Helen's ability to adapt her professional learning workshops to be delivered online has been essential for the Association in 2020. We are very thankful that she will continue in her role for 2021.

---

## Committee

Our success as an Association relies on the generous support from our volunteers. Thank you to the MASA Committee members who supported the mathematics community through student activities, resource development and professional learning throughout 2020. Your contributions are valued by the mathematics teachers and students in South Australia.

The members of the 2020 Committee are:

- President Elect – Tom Frossinakis
- Vice President – Vanessa Gorman
- Treasurer – Neil Davis
- Secretary - Irene Kiroff
- Professional Learning Coordinator - Sharon Kennare
- Student Activities Coordinator - Jo Kellaway
- Resource Development/Communications Coordinator - Sam Capurso
- MASA Projects Coordinator – David Andrew
- Michael Bammann
- David Billett
- Geoff Tinagli
- Isabella Farina
- Lauren Mazarolo

I appreciate how the Committee have accomplished many of our goals in the Strategic Plan already and have targeted areas for improvement. This focus on growth will support us to continue to improve as an Association.

---

## Special Thanks

Our volunteers every year give up their time to support the Association. I would like to give special thanks to some of these volunteers.

Andrew Ferguson for providing valued website support for the Office staff. This has included updating the website, online sales, and upskilling for the office staff.

Michael Bammann for his work on National Mathematics Summer School and Saturday Morning Problem Solving. His motivation to ensure that these student activities continue for the students is appreciated.

Keith Hamman for his continued efforts in writing the HSMC questions. Keith volunteered his time to facilitate and train a small group of teachers this year to write the future competition questions.

Sharon Kennare for her unwavering dedication to the Association. Her efforts towards planning the Annual Conference and STEM Conference, despite both being cancelled due to social distancing requirements. Sharon was able to move many of the workshops to online later in the year so we could still offer professional learning to the community. Additionally, she coordinated the changes to the Revision Guides and writing of the Trial Exams.

Irene Kiroff for her outstanding contributions as a committee member. She was involved in competition paper writing, analysis of HSMC results, administration support for RRSMP and meeting minute taking in her role as Secretary. Irene is a proactive member of our team. Her greatest initiative has been setting up a hire library for the Association this year. Irene displayed her thorough nature when she investigated ways to catalogue so that members could access the books in this library easily. I am pleased to announce that Irene has been awarded the 2020 MASA Outstanding Contribution Award.

Our President Elect, Tom Frossinakis for his contributions to the RRSMP and Student Activities. He continues to inspire both teachers and students in mathematics. I have personally appreciated his dedication to preparing for his new role as President. Tom, I know that you will support our community well and help the Association grow.

---

## Our Future

The year 2020 has brought many challenges to the Association. However, we have risen to the challenge. The office was relocated to a larger space at the beginning of the year. One of the workshop rooms has been set up with new furnishings and an interactive whiteboard. Early 2021 we will begin setting up our second workshop room. Our new office space has allowed us to host teacher professional learning and student competition award nights. The next goals will be to host student workshops and family maths nights. 2021 will bring the official opening of the free library for members. This initiative aims to give back to the members of our Association.

Our Remote and Rural Schools Mathematics Program is in its second year. This Program is kindly funded by the Education Minister, Hon John Gardner. In 2020 we facilitated free professional learning at 7 different locations. With the social distancing restrictions, our flexibility to move workshops to online has been essential this year. We were delighted this year to be awarded the 2020 Connecting with Regional Educators Award winner at the Educators SA 2020 World Teachers' Day Awards. Next year we will strive to extend our reach to Eyre Peninsula, Lower Eyre Peninsula, North and South East in rural South Australia. We hosted a Mathematics Information Evening on Kangaroo Island this year, and hope to expand this to facilitate more of these family nights in 2021.

As we enter our third year of the Strategic Plan, we have three targeted areas for improvement in 2021:

1. Increase participation in mathematics competitions
2. Provide opportunities for families to engage with mathematics
3. Collaborate with industry to develop STEM resources

The Committee is dedicated to improvement in these areas. I am looking forward to seeing our growth over the next 12 months.

Thank you to all our members that have come on the journey with us. We value your contributions and support.

**Rebecca Garrett**  
**MASA President**