



HELP BUILD AUSTRALIA'S STEM WORKFORCE

AMSIS CHOOSEMATHS
Impact Statement 2015-19

SUPPORTED BY **BHP** Foundation



A MESSAGE FROM THE BHP FOUNDATION

The BHP Foundation has big ambitions. We work with partners on projects that have the potential for long-term impacts. In Australia we are focussed on the development of young people through initiatives related to early childhood, STEM education and mental health and wellbeing.

Since 2015, the BHP Foundation has supported AMSI's **CHOOSEMATHS** program. This innovative program has nurtured and supported the next generation of Science, Technology, Engineering and Maths (STEM) professionals, especially girls and young women, and given them the foundational skills and confidence they need to make a difference – the results so far are captured throughout this publication.

Now in our final year, this successful partnership has demonstrated its long term potential for impact and presents an opportunity for new partners to help build Australia's STEM workforce.

PARTNER WITH AMSI

Since 2015, the Australian Mathematical Sciences Institute (AMSI) has been empowering students, particularly girls and women, to pursue careers in mathematics through the **CHOOSEMATHS** project.

Supported by the BHP Foundation, AMSI has been working with students, parents, teachers, careers advisors, young women and Indigenous Australians to increase mathematics participation and equity across four components: Awards, Schools Outreach, Careers and Women in Maths Network.

This statement confirms the significant impact **CHOOSEMATHS** is making in and beyond Australian classrooms, from major cities to regional, remote and lower socio-economic communities.

AMSI is now seeking new partners to deepen our impact and help skill Australia for future STEM innovation.

For more information, visit amsi.org.au



CHOOSEMATHS AWARDS

Help celebrate achievement, creativity and excellence in schools

Highlighting achievement, creativity and collaboration, the student awards challenge teams to make short films exploring themes related to maths in the real-world.

A chance to acknowledge the outstanding contribution of Australia's most engaging, innovative and inspiring maths educators, the teacher awards recognise the power and impact of creative practice and mentorship.

Attracting over 15,000 student and teacher participants nationally since 2016, the CHOOSEMATHS Awards have inspired discussion and allowed students to explore real-world applications of maths.

Prize money awarded to teachers has allowed them to grow their skills and enthusiasm through professional development and expand their school maths programs to increase engagement.



For more information, visit amsi.org.au/cmn-awards





**"Winning the Award for my school
was so important because my Year 9
students were recognised at a national
level for the work they had done"**

Ashley Stewart - 2017 Teacher Winner, WA



60,000,000

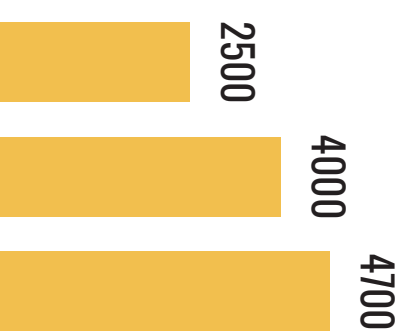
MEDIA REACH

to national, state & regional
audiences since 2016

\$204,000

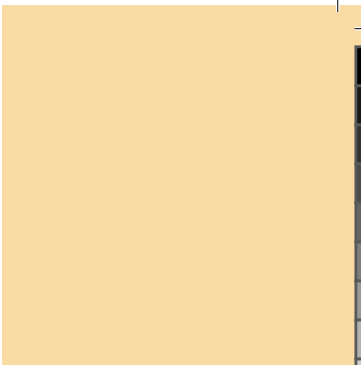
PRIZES AWARDED

to students, teachers & schools
across Australia to date



PARTICIPATION

of students & teachers nationally
in the CHOOSMATHS Awards



"Our school's participation in the Awards has encouraged a surge in student engagement in mathematics."
Year 7 Teacher, VIC





"Travelling to
Melbourne for the
Awards was an
amazing experience."
Year 9 Student, NSW





3,000

TEACHERS

engaged through professional development since 2016

58,000

STUDENTS

have benefited to date from outreach engagement

29%

10%

2016

2018

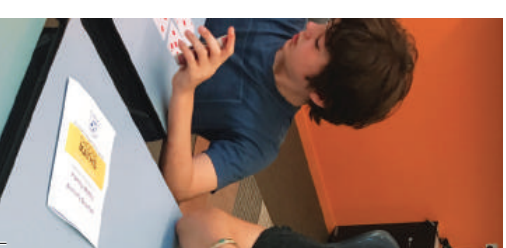
TEACHER CONFIDENCE

increased through professional development by CHOOSEMATHS



“Having a maths expert in our school has created confidence in delivering maths across all levels.”

Principal - Stirling North Public School, SA





CHOOSEMATHS SCHOOLS OUTREACH

Empower teachers to enhance learning for future generations

Support Australian teachers by working with AMSI to enhance mathematics knowledge and confidence in the classroom.

Working on-the-ground in over 120 schools across Australia including regional and remote areas, the CHOOSEMATHS Schools Outreach program has delivered professional development and training support, as well as resources and online tools to transform mathematics learning.

Over 3000 teachers have been engaged in the program, positively impacting 58,000 students nationally, predominantly from regional and remote areas.

Our underlying research indicates those teachers involved in the Schools Outreach program for more than one year have shown a significant growth in teaching confidence.

For more information, visit amsi.org.au/cm-outreach



CHOOSEMATHS CAREERS

Put the spotlight on careers in STEM

Maths opens exciting and often unexpected opportunities across nearly every industry sector. AMSI's annual national CHOOSEMATHS Careers Awareness campaign is changing how Australians talk about maths in the classroom and the community.

Targeting students, parents, teachers, careers advisors, and the broader community, the campaign promotes maths as a valued skill that leads to big opportunities and rewarding careers. From IT, mining, aviation and sport to education and emergency services, the campaign features over 35 STEM ambassadors who need, and use, maths in their jobs.

The team have presented to and distributed maths careers information to thousands of students, parents and teachers from Sydney to Alice Springs, Townsville to Perth and everywhere in between.

For more information, visit amsi.org.au/cn-careers





It's exciting to see all the cool careers that maths can lead to. It makes me realise that the jobs of the future will need maths."

Year 9 Student, VIC



24,000,000

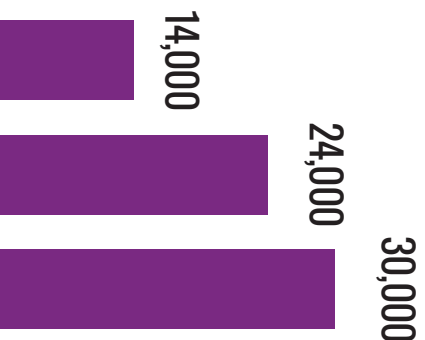
MEDIA REACH

via campaign to national, state & regional audiences 2017-19

11,000

CAREERS PACKS

sent to schools nationally from 2017-19



WEB ENGAGEMENT

with core audience through the annual careers campaign



"I just didn't realise there were so many opportunities when it came to maths."

Year 10 Student, QLD



"To address some of the big sustainable development challenges facing the world today we need people who are resilient, innovative and creative problem-solvers. AMSI's CHOOSEMATHS program encourages and inspires students – including many girls and young women – to think positively about STEM and embrace the opportunity to be part of Australia's future prosperity."

Chip Goodyear, Chairman, BHP Foundation



88%

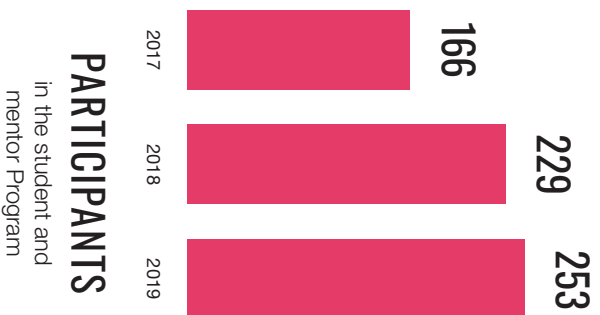
STUDENTS

participating in the program are more aware of careers in maths

70%

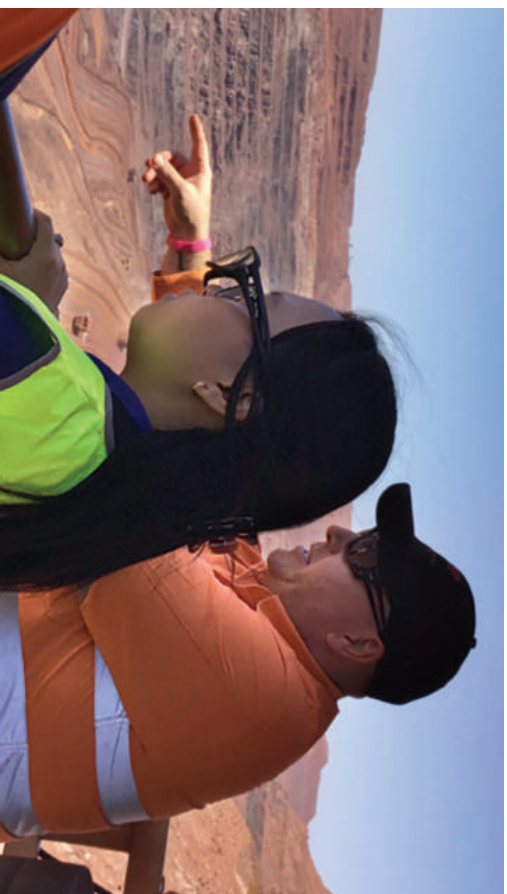
STUDENTS

mentored are considering a higher level of maths in Yr 11



"Mentoring helped guide me through choosing subjects & will continue to help me through VCE."

Year 9 Student, VIC





CHOOSE**MATHS** WOMEN IN MATHS NETWORK

**Inspire and support a new
generation of female STEM students**

Inspiring and supporting a new generation of girls and women through our powerful network of Australian maths leaders, the **CHOOSEMATHS** Mentor program links industry professionals and academics with students to strengthen engagement of girls and women in maths.

Effective in encouraging girls to pursue advanced levels of maths in Years 11 and 12, this initiative is an opportunity to help foster a new generation of industry and academic researchers.

The program has achieved increased growth and engagement and has been successful in highlighting the many career opportunities available in maths.

For more information, visit amsi.org.au/cn-mentoring





PARTNER WITH AMSI

HELP BUILD AUSTRALIA'S STEM WORKFORCE

Professor Tim Brown

AMSI Director
director@amsi.org.au
03 8344 1777

Janine Sprakel

CHOOSEMATHS Project Director
janine@amsi.org.au
03 8344 1790

