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OLIPHANT

SCIENCE AWARDS

# 2023 Presentation Ceremony

Friday 20 October

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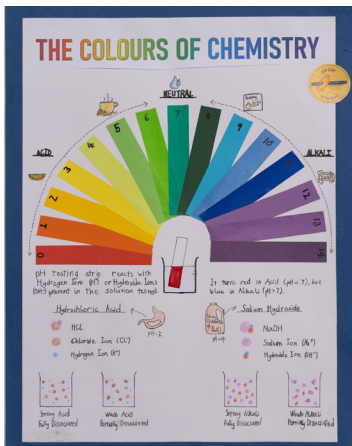
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## Bronze Sponsors





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# A message from the SASTA President

The Oliphant Science Awards are conducted annually by the South Australian Science Teachers Association (SASTA) and were named in recognition of the contribution made to Science by SA scientist Sir Mark Oliphant. The Awards provide students with an opportunity to extend their scientific literacy, by showing interest in and understanding of the world around them, engaging in discussions about science, and being able to make informed choices about the environment and their own health and wellbeing.



Since the start of the Awards in 1981, participation has grown and students from all over South Australia now enter the competition. The wide range of interests and abilities of these students is catered for by the many categories and age groupings offered. Student participation is further encouraged with group entries in many categories. With the introduction of the new Citizen Science category, class participation is also now an option.

The Oliphant Science Awards is one of the many activities organised each year by the South Australian Science Teachers Association to assist science education in schools and in our community. SASTA develops and maintains close links with education authorities, businesses, industry and the tertiary education sector. Working closely with such organisations allows us to develop resources, publications, programs and professional learning opportunities like workshops and conferences for SA teachers.

The support and sponsorship that SASTA receives from our partners also enables us to recognise and celebrate the excellent work of students in these Awards. With many prizes in each age group and category, this Ceremony is a testament to the huge effort made by students, often in close collaboration with their teachers. At the end of the ceremony, you will see the perpetual trophy that Sir Mark designed and crafted. The winning student holds this for one year, then the trophy is exchanged for an engraved medal at the following year's Ceremony.

SASTA's strength lies in our members, and in the many highly committed educators who volunteer their time out of school hours to ensure that we continue to serve the needs of all teachers of science. Our members are drawn from all education sectors, teaching all year levels across the state. We are also fortunate to have a group of excellent staff who form a permanent secretariat to ensure the continuing smooth functioning of all aspects of our business. Because of such strong support from our members and staff, SASTA has the capacity and expertise to be closely involved in developing ideas about how best to ensure that all students become enthusiastic learners of science.

At SASTA we are proud of our contribution to supporting learning for teachers and their students. We will continue our commitment to fostering an awareness and appreciation of the roles that science, technology and innovation play in our daily lives and in the future environmental and economic strength of the country.

**Dina Matheson**, *SASTA President*

# Sir Mark Oliphant

1901–2000

The South Australian Science Teachers Association has been privileged to have had Sir Mark Oliphant as our Patron for the SASTA Oliphant Science Awards since their inception in 1981.

Like many of the recipients of these awards, Sir Mark was born in South Australia and received his primary and secondary education in state schools here. An outstanding student, Sir Mark investigated a number of career pathways and eventually settled on the pursuit of science at the University of Adelaide. Sir Mark showed a love of tinkering and invention from an early age, and it was in the science laboratories in Adelaide that he started to make his own scientific apparatus. He was to become one of the leaders in the design and construction of revolutionary apparatus, including particle accelerators used to investigate the structure and interactions of the nuclei of atoms.

In 1927 a scholarship took Sir Mark to the famous Cavendish Laboratories in Cambridge, UK where he worked with Lord Rutherford, who was a pioneer in atomic physics.

Together with other great scientists including Fermi, Lawrence and Oppenheimer, Sir Mark created the brave new world of nuclear physics. His expertise in this area was to lead Sir Mark to the Manhattan Project in America and to his participation in the development of the first atomic bomb.

Sir Mark was always a champion of the peaceful uses of atomic energy, and in 1937 accepted his first professorship as head of the Physics Department at Birmingham University where he was to continue to push the boundaries of knowledge of nuclear physics. In this year he was elected as a 'Fellow of the Royal Society'.

In 1955 Sir Mark's reputation as scientist, research director and administrator were well established in the scientific community. This, together with his declared interest in establishing world class educational research facilities in Australia, led Sir Mark back to Australia at the request of the Government. In this year he founded the Research School of Physical Sciences at the newly established Australian National University in Canberra.

In the years after retirement from academic life, Sir Mark became a household name in South Australia where he gave distinguished service as our State Governor from 1971 to 1976.

A clear demonstration of his ongoing support of science and science education was provided to the science community in our state when Sir Mark agreed, in 1981, to lend his name as patron of the SASTA Oliphant Science Awards.

Sir Mark's legacy will live on in many ways, not least through the thousands of students and teachers who participate in these awards annually.

Of special significance is that Sir Mark, through his love of tinkering and invention, made the perpetual Oliphant Trophy himself.



# Past Oliphant Trophy Winners

- 1981 **David Tilley**, Mount Gambier High School  
1982 **Andrew McDowell**, Oakbank Area School  
1983 **Stella Miller**, Oakbank Area School  
1984 **Vernon Wells**, Marryatville High School  
1985 **Eleanor Rainsford**, St Peter's Collegiate Girls' School  
1986 **David Messenger and Darren Kelly**, Glenunga High School  
1987 **Darin Lovett and Edward Dunstone**, Prince Alfred College  
1988 **Frank Trimboli and Nikolaos Vogiatzis**, Underdale High School  
1989 **Simon Ratcliffe**, Henley High School  
1990 **Kingsley Storer**, Prince Alfred College  
1991 **John Sanderson**, Pulteney Grammar School  
1992 **William Greenrod and Michael Ashley**, Pulteney Grammar School  
1993 **Mark Hodson and James Jolly**, Modbury High School  
1994 **Mark Hodson**, Modbury High School  
1995 **Kyra Reznikov**, Annesley College  
1996 **Jamie Messner**, Prince Alfred College  
1997 **Erik Procko**, Marryatville High School  
1998 **Erik Procko**, Marryatville High School  
1999 **Paul Philps, Lydia Rofo and Kristina Miller**, Marryatville High School  
2000 **Andrew Royal**, Faith Lutheran Secondary School  
2001 **Alexander Cichowski**, Brighton Secondary School  
2002 **Samuel Teck Ern Wong**, The Norwood Morialta High School  
2003 **Samuel Teck Ern Wong**, The Norwood Morialta High School  
2004 **Alyssa Fitzpatrick**, Loreto College  
2005 **Konrad Pilch**, St Peter's College  
2006 **Finn Stokes**, Australian Science and Mathematics School  
2007 **Finn Stokes**, Australian Science and Mathematics School



2019 Oliphant Trophy winner Phoebe Wood  
with Monica Oliphant



2018 Oliphant Trophy winner Sabrina Lin with  
Monica Oliphant

# Past Oliphant Trophy Winners cont.

- 2008 **Michael Huxley**, St John's Grammar School
- 2009 **Benjamin Harrison**, Urrbrae Agricultural High School
- 2010 **Michael Huxley**, St John's Grammar School
- 2011 **Nina Mao**, Glenunga International High School
- 2012 **Will Russell**, St John's Grammar School
- 2013 **Madeleine Lilburn**, Loreto College
- 2014 **Sarah Damin, Isabelle Greco & Bridget Smart**, Wilderness School
- 2015 **Kee-An Seet**, Glenunga International High School
- 2016 **Alexandra Stephenson**, Adelaide Hills Home School Group
- 2017 **Amber Washington**, Norwood Morialta High School
- 2018 **Sabrina Lin**, Glenunga International High School
- 2019 **Phoebe Wood**, Upper Sturt Primary School
- 2020 **Raihanah Pranggono**, Glenunga International High School
- 2021 **Eugene Lee**, Pedare Christian College
- 2022 **Isaiah Ajaero**, Concordia College



2022 Oliphant Trophy winner Isaiah Ajaero



2021 Oliphant Trophy winner Eugene Lee



2020 Oliphant Trophy winner Raihanah Pranggono

## Master of Ceremony for the evening

### Dr Julie-Anne Popple

Dr Julie-Anne Popple is a science communicator and qualified teacher who is passionate about sharing a love of all things STEM. She grew up chasing bugs which led to her studying glow-worms and locusts as an entomologist. Working in science education led her to discover a love of teaching and outreach. Julie-Anne is the Diversity Outreach Coordinator at the University of Adelaide, where she works to support diverse students to get into STEM.



# A message from the Convenors



The Oliphant Science Awards are conducted annually by the South Australian Science Teachers Association, and are named in honour of the late Sir Mark Oliphant, our former Patron, and in his time an outstanding supporter and promoter of our student science competition.

The Oliphant Science Awards commenced in 1981, with Sir Mark personally hand crafting the trophies for the best male and female entrants. Since then student participation has continued to grow, and very many students throughout South Australia now participate. The wide range of interests and abilities of these students is catered for by the many categories and age groupings that we offer.

Sir Mark personally designed and crafted the titanium metal perpetual trophy that the annual winning student holds for one year. The trophy is then exchanged for an engraved medal at the following year's Presentation Ceremony.

The Oliphant Science Awards recognise outstanding student work with prizes in each age group and each category. There are many prizes made available through the generosity of our Sponsors, who are an integral part of the success of our Awards. We acknowledge this support through their attendance at and participation in the Presentation Ceremony. Without our sponsors we could not offer such a successful student science competition.

An essential component of the Oliphant Science Awards is the judging. SASTA acknowledges and thanks the large group of dedicated teachers and supporters of science education who have volunteered to judge the thousands of entries that students prepared for this year's competition. This contribution to SASTA and to science education is greatly appreciated.

The Oliphant Science Awards have once again been a great success thanks to the participation of thousands of students. We know that this participation happens with the encouragement and support given by very many parents and teachers, and we thank you all for this support, coming as it does at a time when student engagement in Science has never been more critical. We also thank and acknowledge the hard work of the SASTA OSA Committee members and volunteers who make this project possible. And finally, we thank the SASTA Office staff for their dedicated commitment to the success of the Oliphant Science Awards. This is the largest project that our association undertakes annually.

Each of the eight Australian state and territory Science Teacher Associations offers student science competitions. At SASTA we are proud that in recent years, our Oliphant Science Awards has been the largest of these state competitions, a success built on the contributions of the many people listed above.

Whatever your role is, we thank you for your contribution to this wonderful project.

**Peter Turnbull** and **Gerald Little**, *Oliphant Science Awards Convenors, 2023*

# Wine Australia

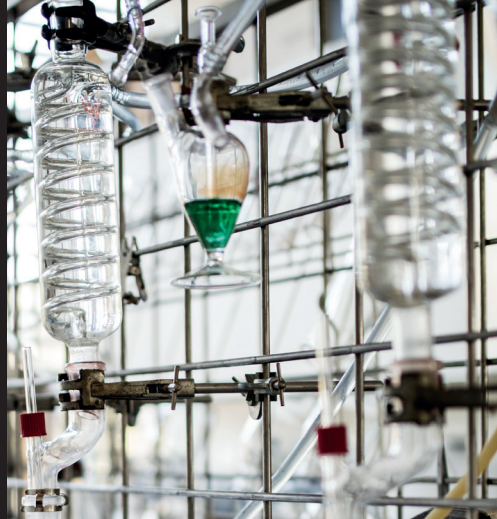
## Congratulations to the 2023 winners and participants

Our sector acknowledges the passionate educators empowering young people to pursue their interests in scientific inquiry.

Innovation and sustainability in our industry is underpinned by science and research-informed knowledge.

Our support highlights the importance and practical application of science, technology, engineering and mathematics across agriculture, viticulture, food chemistry and wine science – oenology, inspiring the next generation of science professionals.

Visit [www.yourcareer.gov.au/careers/2342/chemist-and-food-and-wine-scientist](http://www.yourcareer.gov.au/careers/2342/chemist-and-food-and-wine-scientist)



# Oliphant Trophy Winner 2023

*For outstanding science content.*

*Presented by Ms Monica Oliphant.*

- 7-8 Shaya Ismail, Adelaide Botanic High School  
Models & Inventions: VAMOS: Vehicular Autonomous Marine Observation System

## Oliphant Medal

*Presented by Ms Monica Oliphant to the 2022 Oliphant Trophy Winner*

- 11-12 Isaiah Ajaero, Concordia College  
Science Writing: Chimeric antigen receptor T-lymphocytes (CAR T-lymphocytes): The application of immuno-engineering in the treatment of haematological malignancies

## Platinum Sponsor Prizes

### Rowe Scientific Emerging Talent Award

*Awarded to the two best Primary and two best Secondary entries from regional or low SES schools.*

- 3-4 Lucy Di Lalla, Kangaroo Island Community Education  
Photography: Playing With Pollination
- 3-4 Ava Rigby, Trinity College - South  
Games: Around the world
- 9-10 Sarah Baker, Alana Briggs & Sienna Tomlinson,  
Mount Compass Area School  
Games: Catch Lives Not Diseases
- 9-10 William Clifton, Caritas College  
Science Writing: Mysteries of the Universe



### Department for Education Young Scientist Awards

*Awarded to the overall top performing students in Primary and Secondary competitions.*

#### Department for Education Young Scientist Awards R-4

- 1st Lukas Porter, Scotch College - Junior School
- 2nd Isabella Pinchbeck, Trinity College - North
- 3rd Chloe Robertson, Magill School
- 4th Deacon Fourie, Southern Vales Christian College - Morphett Vale



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#### Department for Education Young Scientist Awards 5-8

- 1st Chloe Yaan Yuit Yew, Norwood International High School
- 2nd Zoe Curtis, St Peter's Collegiate Girls' School
- 3rd Venuki Kodithuwakku, Mawson Lakes School
- 4th Shaya Ismail, Adelaide Botanic High School

#### Department for Education Young Scientist Awards 9-12

- 1st Melson Shi, Unley High School
- 2nd Priyanka Thavarajah, Seymour College
- 3rd Linh Huynh, Glenunga International High School
- 4th Steven Girgis, Prescott College Southern

#### Department for Education Young Scientist Awards - Special Schools

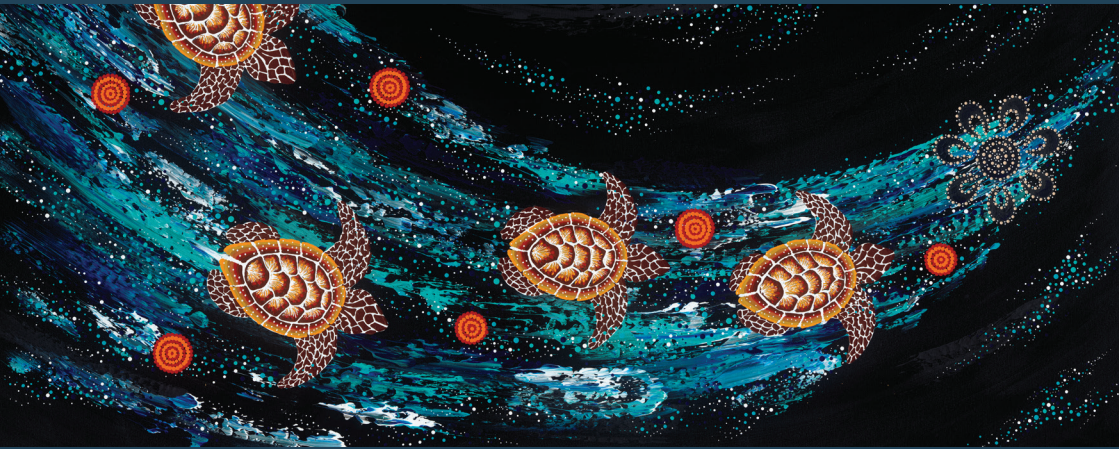
- Lucas Agalianos, Errington Special Education Centre
- Xander Baptie, Errington Special Education Centre



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# Defence STEM Career Pathways



Song Cycle of the Seven Sisters by Anthony Walker

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Summer Vacation Placement  
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Women in STEM Scholarships

[dst.defence.gov.au/careers](http://dst.defence.gov.au/careers)



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[www.defence.gov.au](http://www.defence.gov.au)



# Platinum Sponsor Prizes

## Defence Science & Technology's Secondary School Prizes

Awarded to the schools with the two highest aggregate score in all categories for years 7-10 and 11-12.

7-10

1st Glenunga International High School

2nd St John's Grammar School

11-12

1st Unley High School

1st Our Lady of the Sacred Heart College



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# Gold Sponsor Prizes

## Wine Australia

### Wine Australia Prizes R-12

*For the most outstanding entry highlighting food chemistry*

R-2 Audrey Hyde, Annesley Junior School  
Scientific Inquiry: Cooking up a storm

7-8 Chloe Yaan Yuit Yew, Norwood International High School  
Models & Inventions: Bioplastics in everyday applications: A sustainable solution to our plastic crisis

9-10 Matilda Kemp, Faith Lutheran College  
Science Writing: Are nature based solutions the key to mitigating climate change?

# Citizen Science Category Sponsor Prizes



THE UNIVERSITY  
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### The University of Adelaide Citizen Science Prizes

*Awarded to the best Citizen Science entry for Primary and Secondary.*

Primary Class Project, Coromandel Valley Primary School  
Bringing Back the Bandicoots to Frank Smith

Secondary Jin Xing, Daniel Teng & Asad Khan,  
Glenunga International High School  
Our Place Amongst the Stars

# Models & Inventions Category Sponsor Prizes



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### Australian Institute of Energy Prizes R-12

*Awarded to the best entry at each year level with a sustainable generation and uses of energy theme.*

R-2 Lukas Porter, Scotch College - Junior School  
Multimedia: Living on the Moon

5-6 Hanyue Li & Zoe Zuo, Grange Primary School  
Scientific Inquiry: How to get the most profit out of solar panels

7-8 Ella Holmes, Brighton Secondary School  
Models & Inventions: Electricity

9-10 Ella McDermott, St John's Grammar School - Senior School  
Science Writing: Carbon capture, use and storage

11-12 Steven Girgis, Prescott College Southern  
Models & Inventions: The effect of changing light filters on Photovoltaic cells

# AUSTRALIAN GEOGRAPHIC NATURE ——— PHOTOGRAPHER OF THE YEAR —

AUSTRALIA NEW ZEALAND ANTARCTICA NEW GUINEA

A SOUTH AUSTRALIAN MUSEUM EXHIBITION

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Angela Robertson-Buchanan, *Galah Play* (detail).



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MUSEUM

## Photography Category Sponsor Prizes



### South Australian Museum Photography Prizes R-12

For the best Photography entry of natural fauna, flora or natural land formations and must have been taken in the ANZANG bioregion.

- R-2 Otis Reeve, Aldgate Primary School  
Photography: Flora in Focus
- 7-8 Zoe Wright, Kildare College  
Photography: Ready for my Close Up
- 11-12 Omar Haider, St Ignatius College - Senior School  
Photography: Up Close and Macro!

## Scientific Inquiry Category Sponsor Prizes



**University of  
South Australia**

### University of South Australia – Sustainable Future Prizes R-12

Awarded to the most inspiring entry highlighting the value of Information Technology, Engineering and Environmental Science to a Sustainable Future.

- 5-6 Emily Pike, Immanuel Lutheran School Gawler  
Science Writing: Clean Tech
- 9-10 Linh Huynh, Glenunga International High School  
Posters: Bug Burger's Better

# Science Writing Category Sponsor Prize



## Flinders University Environment Prize 7–12

*Awarded to the most inspiring entry covering an environmental issue in South Australia.*

- 7-8 Shaya Ismail, Adelaide Botanic High School  
Models & Inventions: VAMOS: Vehicular Autonomous Marine Observation System

## Flinders University Science Prize 7–12

*Awarded to the outstanding research-based entry in science.*

- 9-10 Riley Wright, Adelaide Botanic High School  
Multimedia: The World of Rainbow Lorikeets

## Flinders STEM Academy Regional Student Prizes R–12

*For the most outstanding entry from a student in a regional area.*

- 5-6 Emily Pike, Immanuel Lutheran School Gawler  
Science Writing: Clean Tech

# Silver Sponsor Prizes



## Catholic Education SA Primary School Prizes

*Awarded to the best two primary schools with high achievement and participation across a wide range of categories.*

- 1st Scotch College - Junior School  
2nd St Thomas Catholic School, Goodwood



THE UNIVERSITY  
of ADELAIDE

## The University of Adelaide, Faculty of Science, Engineering and Technology: Engineering, Mathematical and Computer Sciences Prize 7-12

*Awarded to the most outstanding entry with an engineering, computing or mathematical science theme.*

- 9-10 Vinuka Kaluwila, Pembroke School  
Programming, Apps & Robotics: Simulating Pandemics

## The University of Adelaide, Faculty of Science, Engineering and Technology: Sciences Prize 7-12

*Awarded to the most outstanding entry highlighting the benefits of scientific research to the community.*

- 11-12 Luke Mulders, Concordia College  
Science Writing: Developments in Behavioural Psychology and Neuroscience Influence Anti-smoking and Anti-vaping Legislation

# Category Prizes

## Citizen Science

### Primary

|     |  |                                     |  |
|-----|--|-------------------------------------|--|
| 1st | Class Project                                    | Coromandel Valley Primary School    | Bringing Back the Bandicoots to Frank Smith  |
| HC  | Year 3 Sealion Class & Year 3 Glossy Black Class | Kangaroo Island Community Education | Insects on KI                                |
| HC  | Year 4 Class                                     | Heathfield Primary School           | Shark and Skate diversity in South Australia |

### Secondary

|     |                                  |   |   |
|-----|----------------------------------|---|---|
| 1st | Jin Xing, Daniel Teng, Asad Khan | Glenunga International High School        | Our Place Amongst the Stars                                       |
| HC  | ASMS Class Project 1             | Australian Science and Mathematics School | To what extent does the weather impact the activeness of insects? |
| HC  | Ms Roselt's Year 8 Science Class | Brighton Secondary School                 | What Fungi can be found in Kujpto Forest?                         |

## Crystal Investigation

### R-2

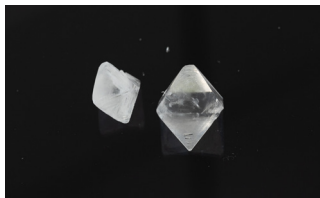
|     |                                |                          |                               |
|-----|--------------------------------|--------------------------|-------------------------------|
| 1st | Remy Durham                    | Annesley Junior School   | Mr. Crystally                 |
| 2nd | Alice Edwards                  | Belair Primary School    | Alice's crystal investigation |
| 3rd | Clara Stutterheim              | Highgate School          | Clara's Crystal Investigation |
| HC  | Sophia Jackson, Naomi Iannella | Blackwood Primary School | Beautiful Crystals            |
| HC  | Christopher Yanni              | St Andrew's School       | Crystal Investigation         |

### 3-4

|     |                              |                                     |                       |
|-----|------------------------------|-------------------------------------|-----------------------|
| 1st | Charles Rogers-Kang          | Pulteney Grammar School             | Crystal Investigation |
| 2nd | Alice Li, Edward Chun Yi Liu | St Andrew's School                  | Crystal Investigation |
| 3rd | Lucy Hawkes                  | Burnside Primary School             | Crystal Investigation |
| HC  | Chelsea Tran                 | St Thomas Catholic School, Goodwood | Crystal Growing       |

### 5-6

|     |                               |                               |   |
|-----|-------------------------------|-------------------------------|---|
| 1st | Hayden Diercks                | Paringa Park Primary School   | Crystal Investigation                                   |
| 2nd | Venuki Kodithuwakku           | Mawson Lakes School           | Crystals, crystals, crystals - The saltiest of them all |
| 3rd | Zunairah Javed, Mariam Barsom | Challa Gardens Primary School | Crystal Investigation                                   |
| HC  | Will Ciao                     | St John's Grammar School      | Crystal Investigation - how big can I grow it?          |
| HC  | Zachary Hill                  | Hawthorndene Primary School   | Crystals of Light and Darkness                          |







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## Crystal Investigation

### 7-8

|     |  |                           |                       |
|-----|--|---------------------------|-----------------------|
| 1st | Ari Llewelyn                                     | Unley High School         | Crystal Investigation |
| 2nd | Umar Mateen                                      | Unley High School         | Crystal Investigation |
| 3rd | Michelle Kyrylenko,<br>Thiele Hart, Destiny Hart | Brighton Secondary School | Crystal Investigation |

### 9-10

|     |                    |                                   |   |
|-----|--------------------|-----------------------------------|---|
| 1st | Mariah Kollakombil | Unley High School                 | Crystal Investigation                                     |
| 2nd | Rachel Richardson  | Walford Anglican School for Girls | Growing Crystals  |
| 3rd | Jingyi Qian        | Walford Anglican School for Girls | Crystal Experience  |
| HC  | Mingmiao Lin       | Walford Anglican School for Girls | Crazy Krystals  |
| HC  | Masih Mazraeh      | St Peter's College                | Effect of seeding crystal size on crystal growth          |
| HC  | Yousif Shibeeb     | St Peter's College                | Effect of concentration and temperature on crystal growth |

### 11-12

|     |   |                 |          |
|-----|---|-----------------|----------|
| 1st | Alexandra Morrison,<br>Maddison Fenton, Emily Zou | Seymour College | Crystals |
|-----|---|-----------------|----------|

## Games

### R-2

|     |   |                                      |                      |
|-----|---|--------------------------------------|----------------------|
| 1st | Yu Ze Alexander Ooi                     | St Andrew's School                   | Spinning Science     |
| 2nd | Rupert Oliver                           | Concordia College                    | Bush Monopoly        |
| 3rd | Henry Kumela                            | Golden Grove Lutheran Primary School | Dinosaur Dig         |
| HC  | Abhyuday Rumchuritter,<br>Atharv Dhadoo | Vale Park Primary School             | Our House is on Fire |

### 3-4

|     |   |                             |                       |
|-----|---|-----------------------------|-----------------------|
| 1st | Chloe Robertson   | Magill School               | Answer to Build       |
| 2nd | Bao Yun Grace Ooi   | St Andrew's School          | Grace's Twisty Turner |
| 3rd | Ava Rigby   | Trinity College - South     | Around the world      |
| HC  | Alexia Gjorgjievski                                       | St Aloysius College         | Space Journey         |
| HC  | Amethyst Stone, Grace<br>Diamond, Hazel Waldan            | Athelstone School           | Extinction            |
| HC  | Mikayla Szelag, Alyssa<br>Sweeney                         | McLaren Flat Primary School | Hot and Cold          |
| HC  | Charlotte Tessier, Adelaide<br>Donovan-Lawlor, Macy Lines | Highgate School             | Crystal Lab           |

# 2023

SASTA

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SCIENCE AWARDS

## VIRTUAL OPEN DAY NOW LIVE!

Congratulations to this year's winners!

[www.oliphantscienceawards.com.au](http://www.oliphantscienceawards.com.au)

### Games

#### 5-6

|     |  |                                     |                       |
|-----|--|-------------------------------------|-----------------------|
| 1st | Elizabeth Le, Lila Nassery               | Wilderness School                   | Ocean Com-Ocean       |
| 2nd | James Young, Seth Attygalle              | St Peter's College                  | Chemistry A-Z         |
| 3rd | Siobhan Aplin                            | St Aloysius College                 | Biomes Brains         |
| HC  | Imogen Byrne, Claire Blockow             | Belair Primary School               | Bouncing into Science |
| HC  | Thomas Heath, Jude Brown, Lachlan Martin | Immanuel Lutheran School Gawler     | ELEMENT-ary School    |
| HC  | Michael O'Dea                            | St Thomas Catholic School, Goodwood | The Age of One Life   |
| HC  | Tayah Smith, Lilah Chang, Sophia Chang   | Portside Christian College          | Space Race            |

#### 7-8

|     |                        |                   |                         |
|-----|------------------------|-------------------|-------------------------|
| 1st | Emily Papacharalambous | St George College | Photosynthesis Survival |
|-----|------------------------|-------------------|-------------------------|

*Emily Papacharalambous is also the recipient of the Australian Society for Biochemistry and Molecular Biology Prize for the most outstanding entry with a biochemistry or molecular biology theme.*

|     |                                  |                                   |                     |
|-----|----------------------------------|-----------------------------------|---------------------|
| 2nd | Willem Schinckel                 | St John's Grammar School          | Food Chain          |
| 3rd | Alexander Smith                  | Pulteney Grammar School           | The World of Inanis |
| HC  | Alexandra Kouvousis              | St George College                 | Elemental Fun       |
| HC  | Andreas Militiadous              | St George College                 | Organ Odyssey       |
| HC  | Lucy Stanton, Gabriella Figueroa | Walford Anglican School for Girls | ZAP                 |



## Games

### 9-10

|     |  |                           |                          |
|-----|--|---------------------------|--------------------------|
| 1st | Carys Jones                                    | Mitcham Girls High School | The Gene Scheme          |
| 2nd | Jess Gacic,<br>Alsie Malzard-Moody             | St John's Grammar School  | Busy Bees                |
| 3rd | Mariam Bakra, Nerma Cesko,<br>Lana Ismail      | IQRA College              | Pseudo!                  |
| HC  | Sarah Baker, Alana Briggs,<br>Sienna Tomlinson | Mount Compass Area School | Catch Lives Not Diseases |

### 11-12

|     |                  |                                    |                   |
|-----|------------------|------------------------------------|-------------------|
| 1st | Joshua Cartledge | Glenunga International High School | Kinematic Cowboys |
|-----|------------------|------------------------------------|-------------------|

## Models & Inventions

### R-2

|     |                                  |                                     |                         |
|-----|----------------------------------|-------------------------------------|-------------------------|
| 1st | Amir Chalob                      | St Peter's Woodlands Grammar School | Take a breath           |
| 2nd | Mitchell Davis Kellett           | North Ingle School and Preschool    | Roller Coaster of Doom  |
| 3rd | Isabel Wilson, Lara Nassery      | Wilderness School                   | The Water Cycle         |
| HC  | Luke Davies, Sonny Boujean       | Burnside Primary School             | Floodplain model        |
| HC  | Edison Enthoven, Joshua Williams | Sunrise Christian School - Marion   | Robotic Painting Device |
| HC  | Tallulah Marr                    | Rose Park Primary School            | Sand with the band      |
| HC  | Felix Rowland                    | Belair Primary School               | Felix                   |

### 3-4

|  |                  |  |  |
|--|------------------|--|--|
| 1st  | Remy Zwarts      | Mitcham Primary School                           | Fluidized airbed                               |
| <i>Remy Zwarts is also recipient of the Australian Institute of Physics (AIP) Prize for the most outstanding entry with a physics theme.</i> |                  |  |  |
| 2nd  | Deacon Fourie    | Southern Vales Christian College - Morphett Vale | Science Keeps you Afloat                       |
| 3rd  | Piper Moody      | Belair Primary School                            | The gurgle stopper                             |
| HC   | Nathan Del Fante | Hawthorndene Primary School                      | Aircraft Collision Avoidance System            |
| HC   | Ivan Leong       | St Andrew's School                               | To Move the World!                             |
| HC   | Brodie Muchamore | Athelstone School                                | Why don't Penguin's Feet Freeze in Antarctica? |
| HC   | Charlie Padley   | Aldgate Primary School                           | The Water Cycle                                |

Models & Inventions is proudly sponsored by the Australian Institute of Energy



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ENERGY**

**SOUTH AUSTRALIA**



## Models & Inventions

| 5-6 |   |  |                            |
|-----|---|--|----------------------------|
| 1st | Addison Kowald                                      | Golden Grove Primary School              | Reflection and refraction  |
| 2nd | Wesley Young, Oliver Chapman                        | Concordia College                        | Debris Separator           |
| 3rd | Kira Patel  | Annesley Junior School                   | Life Cycle of a Mushroom   |
| 3rd | Narayan Raghunandan, Saatvik Gupta, Steven Lee      | Pembroke School                          | X Globe                    |
| HC  | Maya Atkinson                                       | Sunrise Christian School - Morphett Vale | The Brain                  |
| HC  | Ariana Ng   | Wilderness School                        | Synchrotron in Slo-Mo      |
| HC  | Lewis Taylor, Pradyun Parikh, William Thompson      | St Peter's Woodlands Grammar School      | Space Station Exploration  |
| HC  | Lukas Thakore, Indy Gautama                         | East Marden Primary School               | New Ways of Storing Energy |
| HC  | Isha Wechalekar, Maryam Cedra Sawad, Sharanya Reddy | Wilderness School                        | COVID-19 and the heart     |
| HC  | Adeline Wilson, Lila Nassery                        | Wilderness School                        | Circulatory System         |



**RAISING  
HEARTS  
AND  
MINDS**

**Catholic Education South Australia** congratulates all of the entrants in the **Oliphant Science Awards**

We also acknowledge the contribution of the South Australian Science Teachers Association

[cesa.catholic.edu.au](https://cesa.catholic.edu.au)

## Models & Inventions

### 7-8

|     |                        |  |  |
|-----|------------------------|--|--|
| 1st | Shaya Ismail           | Adelaide Botanic High School           | VAMOS: Vehicular Autonomous Marine Observation System                              |
| 2nd | Muhammad Shamel Tamoor | Australian Islamic College<br>Adelaide | Hydraulic Arm  |
| 3rd | Chloe Yaan Yuit Yew    | Norwood International High School      | Bioplastics in everyday applications: A sustainable solution to our plastic crisis |

*Chloe Yaan Yuit Yew is also the recipient of the Royal Australian Chemical Institute (RACI) Prize for the most outstanding entry with a chemistry theme.*

|    |                         |  |                            |
|----|-------------------------|--|----------------------------|
| HC | Aaqifa Mohamed Asif Ali | Australian Islamic College<br>Adelaide | Infinity Mirror            |
| HC | Ella Holmes             | Brighton Secondary School              | Electricity                |
| HC | Jenny Liu               | Norwood International High School      | Crying Cut Open            |
| HC | Thomas Nath             | St Ignatius College                    | Human Heart Model          |
| HC | Darshbir Singh          | Glenunga International High School     | The Impacts of Concussions |

### 9-10

|     |              |                           |                                  |
|-----|--------------|---------------------------|----------------------------------|
| 2nd | Manal Dalwai | Mitcham Girls High School | Reciprocal particle beam therapy |
|-----|--------------|---------------------------|----------------------------------|

### 11-12

|     |   |                           |  |
|-----|---|---------------------------|--|
| 2nd | Steven Girgis                                 | Prescott College Southern | The effect of changing light filters on Photovoltaic cells |
| HC  | Vatsal Jigneshkumar,<br>Yashwanth Gunashaleen | The Heights School        | Lenz's and Faraday's Laws of Electromagnetism              |

## Multimedia

### R-2

|     |                                   |                                     |                                 |
|-----|-----------------------------------|-------------------------------------|---------------------------------|
| 1st | Lukas Porter                      | Scotch College - Junior School      | Living on the Moon              |
| 2nd | Everly Jones                      | Concordia College                   | The Science of Music            |
| 3rd | Piper Lashmar                     | Kangaroo Island Community Education | Bubble Trouble                  |
| HC  | Theodore Madey,<br>Cruz Rasmussen | Concordia College                   | All about Planes                |
| HC  | Aadhrit Tripathi                  | Vale Park Primary School            | The Importance of Washing Hands |
| HC  | Lachlan Zwar                      | Concordia College                   | The Science of Baking           |

### 3-4

|     |                    |                                     |                      |
|-----|--------------------|-------------------------------------|----------------------|
| 1st | Dylan Ey           | Blackwood Primary School            | Duck Weed            |
| 2nd | Charlotte Atkinson | Virginia Primary School             | The Digestive System |
| 3rd | Patrik Porter      | Scotch College - Junior School      | Physics of Swimming  |
| HC  | Zoe Pledge         | Kangaroo Island Community Education | Tales of Tails       |

### 5-6

|     |                            |  |                          |
|-----|----------------------------|--|--------------------------|
| 1st | Marnie Sherwell            | Loreto College                         | From space to your place |
| 2nd | Callum Mwate               | St Thomas Catholic School,<br>Goodwood | Tips for Re-Using Waste  |
| 3rd | Jasper Dutch, Edison Dutch | Pedare Christian College               | Science Animation        |
| HC  | Abigail Atkinson           | Virginia Primary School                | Save the Bees            |

South Australia's  
largest STEM expo.

# INGENUITY

## 2023

Free event  
Wednesday 1<sup>st</sup>  
November 2023



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make  
history.

### Multimedia

|              |                                 |                                      |   |
|--------------|---------------------------------|--------------------------------------|---|
| <b>5-6</b>   |                                 |                                      |   |
| HC           | Tyler Gao                       | St Peter's College                   | Guanidinium Nitrate Synthesis - 2D and 3D design                                  |
| HC           | Alice Schammer                  | Hawthorndene Primary School          | Science of a Fidget Spinner   |
| <b>7-8</b>   |                                 |                                      |   |
| 1st          | Yolanna Dixon                   | Concordia College                    | Memory Disorders  |
| 2nd          | Nidhi Sinhal                    | Wilderness School                    | The Science behind glasses  |
| 3rd          | Rashmi Adiga                    | Glenunga International High School   | Why do apples go brown?   |
| HC           | Saheli Dissanayake              | Seymour College                      | Garlic's Sneaky Stench  |
| HC           | Rose Freeman,<br>Thomas Hobbs   | St John's Grammar School             | Electric Vehicles Website   |
| HC           | Elri Mentz                      | Walford Anglican School for Girls    | The Day It All Changed  |
| <b>9-10</b>  |                                 |                                      |   |
| 1st          | Laura Hepworth                  | Concordia College                    | The World of Unicellular Organisms  |
| 2nd          | Riley Wright                    | Adelaide Botanic High School         | The World of Rainbow Lorikeets  |
| 3rd          | Priyanka Thavarajah             | Seymour College                      | Why does drinking coffee keep us awake?   |
| HC           | Dana Kim                        | Glenunga International High School   | Mystery of the Universe   |
| HC           | Olivia Masters                  | Walford Anglican School for Girls    | What is Melanoma?   |
| <b>11-12</b> |                                 |                                      |   |
| 1st          | Melson Shi                      | Unley High School                    | The Harmonic Series: The Foundation Of All Music As We Know It                    |
| 2nd          | Jasinta Morriss                 | Mitcham Girls High School            | Utilising Antimatter Propulsion Systems in Space Travel to Titan in the Year 2050 |
| 3rd          | Regan Nelson                    | Prince Alfred College                | "WATERS" Water Acoustic Transmission's Effects on Sound                           |
| HC           | Naishvi Patel,<br>Eman Alaboody | Our Lady of the Sacred Heart College | Dark Matter   |

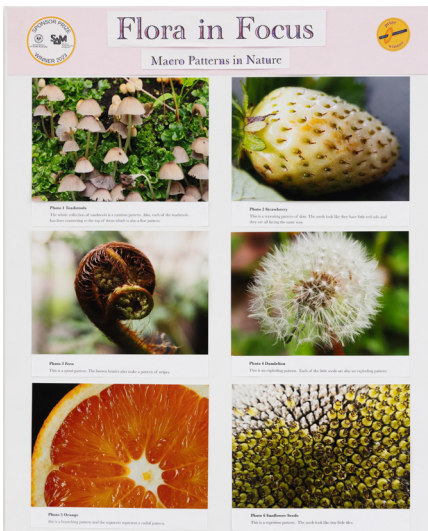
# Photography

## R-2

|     |   |                             |                                   |
|-----|---|-----------------------------|-----------------------------------|
| 1st | Mikhail Jayasundera                     | Highgate School             | Macro, Sri Lanka - Enlarged       |
| 2nd | Otis Reeve                              | Aldgate Primary School      | Flora in Focus                    |
| 2nd | La (Ella) Zuo                           | St Andrew's School          | Fibonacci in Nature               |
| 3rd | Emilia Orr                              | St Aloysius College         | The Macro Flowers                 |
| 3rd | Zara Robinson                           | Rose Park Primary School    | Fibonature                        |
| HC  | Isla Giannis                            | St George College           | Not a Place for Plastic           |
| HC  | Leo Habib                               | Immanuel Primary School     | My Macro pictures                 |
| HC  | Noah Herdem, Claire Wells, Patrick Cook | Highgate School             | Animal Habitat, Photostic animals |
| HC  | Charlotte Hill                          | Hawthorndene Primary School | Visual Vibrations                 |
| HC  | Hamish Melville-Jones                   | Rose Park Primary School    | Fibonacci                         |
| HC  | Lara Nassery                            | Wilderness School           | Fibonacci In Nature               |
| HC  | William Tu                              | St Andrew's School          | Fibonacci in nature               |

## 3-4

|     |                                   |  |  |
|-----|-----------------------------------|--|--|
| 1st | Lucy Di Lalla                     | Kangaroo Island Community Education              | Lifting Up Water With Light                  |
| 2nd | Will Sappiatzer                   | Scotch College - Junior School                   | Birds of Yellow Water Billabong              |
| 3rd | Harper Nguyen                     | St Andrew's School                               | Macro - creatures in my garden               |
| HC  | Sophie Arnold                     | St Andrew's School                               | Macro  |
| HC  | Ruby Budimir                      | St Thomas Catholic School, Goodwood              | Fabulous Fibonacci                           |
| HC  | Teoi Frost Henao, Nicolas Moschos | Southern Vales Christian College - Morphett Vale | Macro  |
| HC  | Millie Guerin                     | Vale Park Primary School                         | Fibonacci in nature                          |
| HC  | Emerson Nobes                     | Mawson Lakes School                              | Macro photography of crystals/gems in nature |
| HC  | Indiana Stemp                     | Pedare Christian College                         | Our Impact                                   |





## Photography

| 5-6 |  |   |   |
|-----|--|---|---|
| 1st | Zoe Curtis                                       | St Peter's Collegiate Girls' School                 | Vibrations  |
| 2nd | Connor Wallace                                   | Scotch College - Junior School                      | Our Impact  |
| 3rd | Matilda Barta,<br>Venisha Tellamsetty            | East Adelaide School                                | Fibonacci In Nature   |
| 3rd | Flynn Wroniak                                    | Vale Park Primary School                            | Animal Habitats   |
| HC  | Jet Connor                                       | Portside Christian College                          | Light Pollution   |
| HC  | Faith Thien                                      | St Thomas Catholic School,<br>Goodwood              | Fibonacci in Nature   |
| HC  | Haylie Walter                                    | Southern Vales Christian College<br>- Morphett Vale | Netball Injuries: Who heals<br>quicker, Adults or Children? |
| HC  | Phoebe Williams                                  | Walford Anglican School for Girls                   | Our Impact  |
| 7-8 |  |   |   |
| 1st | Natasha Florance                                 | Kangaroo Island Community<br>Education              | Fibonacci in Nature -<br>Beautiful Patterns                 |
| 2nd | Lana Yokoyama                                    | Mitcham Girls High School                           | Macro   |
| 3rd | Aazeen Haider                                    | Glenunga International High<br>School               | Fibonacci in nature   |
| 3rd | Zoe Wright                                       | Kildare College                                     | Ready for my Close Up                                       |
| HC  | Ansh Bawne                                       | Glenunga International High<br>School               | Macro Matter  |
| HC  | Emilie Butler, Sophie<br>Polkinghorne            | Kildare College                                     | Animals in the Wilderness                                   |
| HC  | Josh Collings                                    | St John's Grammar School                            | Lichens   |
| HC  | Darla Datson, Gemma<br>Whyatt, Ella Holmes       | Brighton Secondary School                           | Macro   |
| HC  | Aysan Fathollahzadeh                             | Glenunga International High<br>School               | Vibrations in Motion  |
| HC  | Caitlin Hawkins                                  | Kildare College                                     | HOME  |
| HC  | Arlo Heinson                                     | Unley High School                                   | Invasive Species  |
| HC  | Lahaina Mitra-Vyas                               | Kangaroo Island Community<br>Education              | What we owe to Kangaroo<br>Island                           |
| HC  | Tilly Schammer, Max<br>Armstrong, Audrey Vincent | Heathfield High School                              | Animal Habitat Photography                                  |
| HC  | Scarlett Sherman                                 | Mitcham Girls High School                           | Animal Habitat  |
| HC  | Tayen Spencer                                    | Mitcham Girls High School                           | Manchurian pear tree  |



## Photography

### 9-10

|     |   |                                      |                                    |
|-----|---|--------------------------------------|------------------------------------|
| 1st | Nathan Aftab                            | Glenunga International High School   | Vibrations                         |
| 2nd | Indiya Murray, Raajvi Shah, Willow Lock | Our Lady of the Sacred Heart College | A Journey Through a Macro World    |
| 3rd | Isaac Wilson                            | St John's Grammar School             | Arthropods                         |
| HC  | Ceridwen Kellermann Williams            | Glenunga International High School   | What We Leave Behind               |
| HC  | Trisha Shah                             | Glenunga International High School   | Animal Habitats in Our Environment |
| HC  | Danh Van                                | Glenunga International High School   | Captivating Creatures              |
| HC  | Riley Wright                            | Adelaide Botanic High School         | Vibrations in our world            |

### 11-12

|     |                             |                                    |                          |
|-----|-----------------------------|------------------------------------|--------------------------|
| 1st | Omar Haider                 | St Ignatius College                | Up Close and Macro!      |
| 2nd | Kasimir Kellermann Williams | Glenunga International High School | Macro Photography        |
| 3rd | Caitlin Hill                | Mitcham Girls High School          | Macro Explorations       |
| HC  | Melson Shi                  | Unley High School                  | Vibrations All Around Us |

## Posters

### R-2

|     |                       |                                     |   |
|-----|-----------------------|-------------------------------------|---|
| 1st | Isabella Pinchbeck    | Trinity College - North             | How Dogs See the World  |
| 2nd | Lara Nassery          | Wilderness School                   | The pH scale  |
| 3rd | Isaac Otten           | Hawthorndene Primary School         | Water molecules in motion   |
| HC  | Zoya Haque            | Australian Islamic College Adelaide | Water in Motion   |
| HC  | Amelia Julian         | Coromandel Valley Primary School    | Weird & Wonderful   |
| HC  | Tahlia Marchesan      | Mary MacKillop College              | South Australian Science Heroes                                   |
| HC  | Jasper Mitchell       | East Adelaide School                | Natural History Illustration                                      |
| HC  | Asher Oh              | St Peter's College                  | Water in Motion   |
| HC  | Henry Rackham         | St Andrew's School                  | The Michael Jordan of the Animal World: How kangaroos jump so far |
| HC  | Emma Sedgley-Perryman | Scotch College - Junior School      | Tasmanian Devil   |
| HC  | Genevieve Sinclair    | Rose Park Primary School            | Dormouse Gen  |
| HC  | Aria Vogt             | Kangaroo Island Community Education | KI Southern Emu Wren  |
| HC  | Max Zivkovic          | St John's Grammar School            | Insects for lunch   |

## Posters

### 3-4

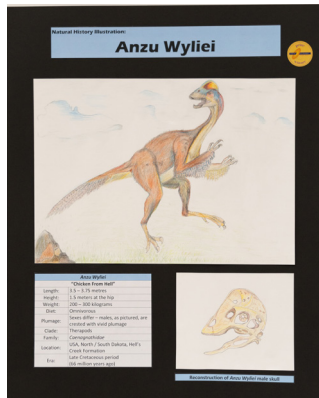
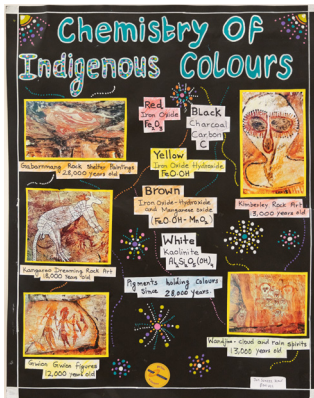
|     |                    |                                |                                 |
|-----|--------------------|--------------------------------|---------------------------------|
| 1st | Vithyutha Sathyan  | Mawson Lakes School            | Weird and Wonderful             |
| 2nd | Lucas Chan         | Pedare Christian College       | The Colours of Chemistry        |
| 3rd | Raytheon Ho        | East Adelaide School           | Nepenthes Mirabilia-Gobble gut  |
| HC  | Alberta Boothroyd  | Belair Primary School          | Weird and wonderful             |
| HC  | Thomas Collins     | Hawthorndene Primary School    | Immortal Jellyfish              |
| HC  | Amelia Davis       | Wilderness School              | 3 for the sea                   |
| HC  | Kira Farquharson   | Hawthorndene Primary School    | Blue Banded Bees                |
| HC  | Aram Haghnegahdar  | Burnside Primary School        | Aram's Poster                   |
| HC  | Hudson Harry       | Pilgrim School                 | Mosasaurus Poster               |
| HC  | Evie Leedham       | Burnside Primary School        | Evie's Poster                   |
| HC  | Samar Mehta        | Pedare Christian College       | Water in Motion                 |
| HC  | Piper Moody        | Belair Primary School          | Cheetahs                        |
| HC  | Tianna Nashar      | Loreto College                 | South Australian Science Heroes |
| HC  | John Quirante      | Mawson Lakes School            | Bugs on the Menu                |
| HC  | Josie Richter      | Wilderness School              | Natural History Illustration    |
| HC  | Elizabeth Sinclair | Rose Park Primary School       | Anatomy of a Whale              |
| HC  | Ella Wallace       | Scotch College - Junior School | Insects for lunch!              |

### 5-6

|     |                |                                |                              |
|-----|----------------|--------------------------------|------------------------------|
| 1st | William Dorman | St Peter's College             | Changes in Environment       |
| 2nd | Alex Jain      | Magill School                  | Our Changing Environment     |
| 3rd | Jacob Tucker   | Immanuel Primary School        | Natural History Illustration |
| 3rd | Connor Wallace | Scotch College - Junior School | Fire Fly                     |
| HC  | Akhila Joka    | Rose Park Primary School       | Natural History Illustration |
| HC  | Sophia Otten   | Hawthorndene Primary School    | Natural History Illustration |

### 7-8

|     |                        |                                   |                          |
|-----|------------------------|-----------------------------------|--------------------------|
| 1st | Jan Suneet Kaur Banvet | Adelaide High School              | The Colours of Chemistry |
| 2nd | Hyun-Woo Cho           | Norwood International High School | Fibonacci in nature      |
| 2nd | Benjamin Pattison      | St Ignatius College               | Chemistry Colours        |



## Posters

### 7-8

|     |                   |                                    |   |
|-----|-------------------|------------------------------------|---|
| 3rd | Rui Love          | Glenunga International High School | Insects as food                         |
| HC  | Rashmi Adiga      | Glenunga International High School | SA Science Heroes                       |
| HC  | Scarlett Flapper  | Loreto College                     | Weird & Wonderful                       |
| HC  | Thinuka Kaluwila  | Pembroke School                    | Weird and Wonderful Titan               |
| HC  | Lotte Mason McKay | Mitcham Girls High School          | Ecolocation                             |
| HC  | Ethan Morton      | Emmaus Christian College           | Natural History                         |
| HC  | Saranyaa Pal      | Glenunga International High School | One of South Australia's Science Heroes |
| HC  | William Taggart   | Glenunga International High School | Lymantria Dispar                        |
| HC  | Nadia Van Zon     | St Aloysius College                | Hummingbirds                            |
| HC  | Shika Vibin       | St Aloysius College                | Our Changing Environment                |
| HC  | Nesandi Wijekoon  | Mitcham Girls High School          | Natural History Illustration            |

### 9-10

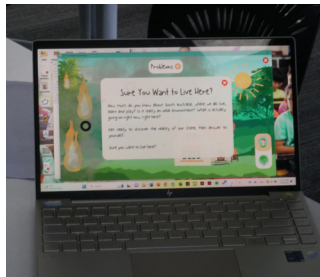
|     |                     |  |  |
|-----|---------------------|--|--|
| 1st | Linh Huynh          | Glenunga International High School     | Bug Burger's Better  |
| 2nd | Priyanka Thavarajah | Seymour College                        | Hydroelectricity-converting water in motion to electricity |
| 3rd | Emelia Walters      | Immanuel College                       | Australian Magpies   |
| HC  | Luella Choimes      | St John's Grammar School               | Eohippus - Ancestor of the modern horse                    |
| HC  | Sara Giini          | St John's Grammar School               | Acid Rain  |
| HC  | Annie Hoare         | Brighton Secondary School              | Natural History Illustration                               |
| HC  | Neve Mathwin        | St John's Grammar School               | Bioluminescence  |
| HC  | Alice Mayock        | Loreto College                         | Overgrowth: Extinction and Endangered Species              |
| HC  | Jayla Naaraat       | St John's Grammar School               | Venus fly traps  |
| HC  | Marika Telfer       | Lower Eyre Peninsula Home School Group | Water in Motion  |
| HC  | Liv Tjdhof          | St John's Grammar School               | African wild dog anatomy                                   |

### 11-12

|     |                              |                                      |                                    |
|-----|------------------------------|--------------------------------------|------------------------------------|
| 1st | Eman Alaboody                | Our Lady of the Sacred Heart College | The Colours of Chemistry           |
| 2nd | Pyar Pyarmohamad             | Garden College                       | Insects for Lunch                  |
| 3rd | Thinushika Thanapalasundaram | Our Lady of the Sacred Heart College | Natural History Illustration       |
| HC  | Rassmas Khenglawt            | Thomas More College                  | Our Working World                  |
| HC  | Kalaivani Mahalingam         | Our Lady of the Sacred Heart College | Sir Marcus Laurence Elwin Oliphant |

## Programming, Apps & Robotics

| R-2   |                            |                                     |   |
|-------|----------------------------|-------------------------------------|---|
| 1st   | Audrey Hyde                | Annesley Junior School              | Bouncy balls                                    |
| 2nd   | Harry Liu                  | Immanuel Primary School             | Hungry Metal Detector                           |
| 3-4   |                            |                                     |   |
| 1st   | Freya Liang                | Glen Osmond Primary School          | Aussie Zoo Adventure                            |
| 2nd   | Leo Prentice               | St David's Parish School            | Light Pollution Monitor                         |
| 2nd   | Orlando Spiliopoulos       | Magill School                       | Orlando's game                                  |
| 3rd   | Eric Wang, Michael Wang    | St Peter's College                  | DJI Battle                                      |
| 5-6   |                            |                                     |   |
| 1st   | Nivaan Sardana             | St Peter's College                  | Articulated Robot                               |
| 2nd   | Jackson Burford            | St John's Grammar School            | Sensors for Suborbital Space                    |
| 3rd   | Aryan Dhawan               | Vale Park Primary School            | Smoking   |
| HC    | Harry Bhavsar              | Mawson Lakes School                 | Distance Measuring Car                          |
| HC    | Samuel Jaksa               | St Thomas Catholic School, Goodwood | Monkey Evolution                                |
| HC    | Tharuk Meemanage           | Rose Park Primary School            | Smart Traffic Light                             |
| 7-8   |                            |                                     |   |
| 1st   | Oliver Hawkins             | Concordia College                   | Virtual Selection: Natural Selection Simulation |
| 2nd   | Saheli Dissanayake         | Seymour College                     | Combatting Ocean Pollution Using Deep Learning  |
| 3rd   | Sukhman Sandhu, Huylong Vu | Mount Carmel College                | Accurate Science game                           |
| HC    | Ania Choi                  | St Peter's Collegiate Girls' School | Magic Herbot                                    |
| HC    | Ricardo Phan               | Mount Carmel College                | Scratch Animation Code                          |
| 9-10  |                            |                                     |   |
| 1st   | Vinuka Kaluwila            | Pembroke School                     | Simulating Pandemics                            |
| 2nd   | Linh Huynh                 | Glenunga International High School  | Sure You Want to Live Here?                     |
| 11-12 |                            |                                     |   |
| 1st   | Stuart Vass                | Pembroke School                     | Charmful  |



Programming, Apps & Robotics is proudly sponsored  
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## Science Writing

### R-2

|     |                   |                                     |                      |
|-----|-------------------|-------------------------------------|----------------------|
| 1st | Lukas Porter      | Scotch College - Junior School      | Living on the Moon   |
| 2nd | Louis Caporaletti | Rose Park Primary School            | Food of the Future   |
| 3rd | Felix Anderson    | St Peter's Woodlands Grammar School | Low Gravity Olympics |

### 3-4

|     |                   |                                     |   |
|-----|-------------------|-------------------------------------|---|
| 1st | Ivan Leong        | St Andrew's School                  | Mysteries of the Universe                           |
| 2nd | Arabella Morgante | St Peter's Collegiate Girls' School | Eating Insects: Yuck or Yum?                        |
| 3rd | Grace Bloor       | Pedare Christian College            | Food of the Future                                  |
| HC  | Mihika Gorey      | Magill School                       | Mysteries of the Universe                           |
| HC  | William Guo       | St Peter's College                  | Mysteries of the Universe                           |
| HC  | Ella Wallace      | Scotch College - Junior School      | Food for the future                                 |
| HC  | Aurelia Walter    | Vale Park Primary School            | Jupiter's Great Red Spot: A Mystery of the Universe |

### 5-6

|     |                     |                                 |  |
|-----|---------------------|---------------------------------|--|
| 1st | Diya Rose           | Hillcrest Primary School        | Lunar Jaunt                                  |
| 2nd | Venuki Kodithuwakku | Mawson Lakes School             | Living on the Moon - The Inaugural Moon Base |
| 3rd | Flynn Wroniak       | Vale Park Primary School        | Living on the Moon                           |
| HC  | Emily Pike          | Immanuel Lutheran School Gawler | Clean Tech                                   |
| HC  | Liana Porter        | Tyndale Christian School        | Moon Cycles and More                         |
| HC  | Zoe Zuo             | Grange Primary School           | Efficient and effective use of solar panels  |

### 7-8

|     |                     |                                   |   |
|-----|---------------------|-----------------------------------|---|
| 1st | Sophie Lim          | Concordia College                 | The ethnobiology behind bush medicine and the correlation with modern science |
| 1st | Chloe Yaan Yuit Yew | Norwood International High School | Algal Bioplastic: A sustainable future  |
| 2nd | Jesse Obst          | St John's Grammar School          | Environmental Justice   |
| 3rd | Mishka Tripathi     | Unley High School                 | Mysteries of the Universe   |
| HC  | Indra Brock-Fabel   | Walford Anglican School for Girls | What's on the Menu?   |

### 9-10

|     |                  |   |  |
|-----|------------------|---|--|
| 1st | Amritha Chulliat | Australian Science and Mathematics School | Mysteries of the Universe: The Measurement Problem |
| 2nd | Ella McDermott   | St John's Grammar School                  | Carbon capture, use and storage                    |
| 3rd | William Clifton  | Caritas College                           | Mysteries of the Universe                          |
| HC  | Vinayika Chopra  | Brighton Secondary School                 | First Nations Science                              |
| HC  | Ben Holds        | Urrbrae Agricultural High School          | Food for the Future                                |

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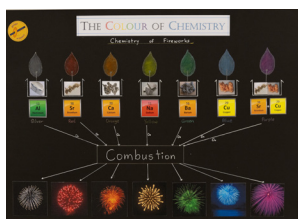
**Science Writing**

**9-10**

|    |                       |                        |  |
|----|-----------------------|------------------------|--|
| HC | Matilda Kemp          | Faith Lutheran College | Are nature based solutions the key to mitigating climate change? |
| HC | Mikayla Rapuano       | Mary MacKillop College | Environmental Justice  |
| HC | Anubhav Sabu          | Mount Carmel College   | Matter and Energy  |
| HC | Lexy Walker-Wawrzycki | Scotch College         | Future   |

**11-12**

|     |                  |                           |   |
|-----|------------------|---------------------------|---|
| 1st | Luke Mulders     | Concordia College         | Developments in Behavioural Psychology and Neuroscience Influence Anti-smoking and Anti-vaping Legislation      |
| 2nd | Taspia Nosrat    | Mitcham Girls High School | A renewable source of Silica  |
| 3rd | Juliana Lanzilli | Concordia College         | Time Bombs: The Social, Economic and Environmental Consequences of Nuclear Bomb Testing in the Marshall Islands |





## Scientific Inquiry

### R-2

|     |              |                         |                        |
|-----|--------------|-------------------------|------------------------|
| 1st | Audrey Hyde  | Annesley Junior School  | Cooking up a storm     |
| 2nd | Eden Owen    | Belair Primary School   | Clicking fingers       |
| 3rd | Charlie King | Immanuel Primary School | How clean are surfaces |

### 3-4

|     |                               |  |   |
|-----|-------------------------------|--|---|
| 1st | Max Vella                     | St Thomas Catholic School,<br>Goodwood | Worm Tea- Do fruit or vegetables<br>produce more juice? |
| 2nd | Patrik Porter                 | Scotch College - Junior School         | The Fastest Freestyle                                   |
| 3rd | Cameron Pearce,<br>Tomi Morea | Grange Primary School                  | Which everyday objects have the<br>most bacteria?       |

### 5-6

|     |                           |                                     |   |
|-----|---------------------------|-------------------------------------|---|
| 1st | Hanyue Li, Zoe Zuo        | Grange Primary School               | How to get the most profit out of<br>solar panels |
| 2nd | Miroslava<br>Baryshnikova | Annesley Junior School              | The effect of music on ice crystals               |
| 3rd | Zoe Curtis                | St Peter's Collegiate Girls' School | Does it dance?                                    |

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\*QILT Employer Satisfaction Survey, 2020-22 – Employability Skills Indicator. SA public universities.

<sup>^</sup>ComparED (QILT) Course Experience Questionnaire 2021-22 – Overall Satisfaction Indicator  
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## Scientific Inquiry

| 7-8   |                          |                                      |  |
|---|--------------------------|--------------------------------------|--|
| 1st   | Choe Yaan Yuit Yew       | Norwood International High School    | The effect of climate change on plant germination and growth   |
| 2nd   | Benita Wu,<br>Kyra Huang | Seymour College                      | How Wavelength Affect the Acceleration of Ice Cubes Melting  |
| 3rd   | Raisa Afsara             | Mitcham Girls High School            | Marble Roller Coaster  |
| 9-10  |                          |                                      |  |
| 1st   | Cristina Parletto        | Walford Anglican School for Girls    | A-salt on snot - An investigation into saline decongestants  |
| <i>Cristina Parletto is also the recipient of the Tall Poppy Award for Scientific Inquiry for a scientific inquiry project where clear and engaging communication features.</i> |                          |                                      |  |
| 2nd   | Caleb Van Wezel          | Emmaus Christian College             | To determine the effect of the length of a light bulb's electrical filament on the luminance (Lux measure) of the light bulb     |
| 3rd   | Raajvi Shah              | Our Lady of the Sacred Heart College | Increase in Acidity by Different HCl Supplement Brands   |
| HC  | Emma Choi                | Loreto College                       | The Effect of Varying Chemicals upon Antibacterial Effectiveness Against E. coli Growth  |
| HC  | Telisa Minami            | Glenunga International High School   | Does the amount of fertiliser in a water body impact the amount of dissolved oxygen in the water body?                           |
| HC  | Emily Weir               | Walford Anglican School for Girls    | The effect of different coloured light on plant growth   |
| 11-12   |                          |                                      |  |
| 1st   | Melson Shi               | Unley High School                    | The Triboelectric Effect   |
| HC  | Asira Suetrong           | Glenunga International High School   | Investigating The Effect of Varying Temperatures on The Activity of Lipase in The Hydrolysis of Triglycerides in Full-Cream Milk |
| HC  | Cynthia Zhao             | Glenunga International High School   | Investigating the correlation between atopic dermatitis prevalence and air pollution   |





# Rowe Scientific Regional Science and Engineering Awards

*Awarded to the best entries in Models & Inventions and Scientific Inquiry from students in remote, regional or low SES schools.*

## R-2

|     |                        |  |                          |
|-----|------------------------|--|--------------------------|
| 1st | Mitchell Davis Kellett | North Ingle School and Preschool       | Mitchell's Rollercoaster |
| 2nd | Reuben Young           | Lock Area School                       | Plane DJ                 |
| 3rd | Zoya Haque             | Australian Islamic College<br>Adelaide | Secret of healthy smile  |

## 3-4

|     |               |   |                           |
|-----|---------------|---|---------------------------|
| 1st | Deacon Fourie | Southern Vales Christian College<br>- Morphett Vale | Science Keeps you Afloat  |
| 2nd | Beau Nash     | Clarendon Primary School                            | Marine Ecosystems         |
| 3rd | Kai Cairns    | Goolwa Primary School                               | Waterfalls meet the river |

## 5-6

|     |                |   |   |
|-----|----------------|---|---|
| 1st | Addison Kowald | Golden Grove Primary School                         | Reflection and refraction                     |
| 2nd | Holly Bevan    | McLaren Flat Primary School                         | The Amazing Fibonacci                         |
| 3rd | Nicole Denton  | Southern Vales Christian College<br>- Morphett Vale | Art Model                                     |
| 3rd | Janson Japhet  | Challa Gardens Primary School                       | How Leaves Produce Oxygen                     |
| 4th | Piper Binsted  | Kangaroo Island Community<br>Education              | Triodia - Adaptation to Life in the<br>Desert |

## 7-8

|     |                            |  |                       |
|-----|----------------------------|--|-----------------------|
| 1st | Muhammad Shamel<br>Tamoor  | Australian Islamic College<br>Adelaide | Hydraulic Arm         |
| 2nd | Aaqifa Mohamed<br>Asif Ali | Australian Islamic College<br>Adelaide | Infinity Mirror       |
| 3rd | Ritika Singh               | Mount Carmel College                   | Beach Pollution       |
| 4th | Clara Hocking              | Temple Christian College               | Dolphin Communication |

## 9-10

|     |                                   |   |   |
|-----|-----------------------------------|---|---|
| 1st | Raajvi Shah                       | Our Lady of the Sacred Heart<br>College | Increase in Acidity by Different HCl<br>Supplement Brands |
| 2nd | Sacha Hafza,<br>Nawar Al Yami     | IQRA College                            | Earthquake Alarm Working Model                            |
| 3rd | Caleb Guinane, Emily<br>Partridge | Mount Carmel College                    | Impacted Dolphin  |

## 11-12

|     |  |   |   |
|-----|--|---|---|
| 1st | Steven Girgis                                    | Prescott College Southern               | The effect of changing light filters<br>on Photovoltaic cells |
| 2nd | Vatsal Jigneshkumar,<br>Yashwanth<br>Gunashaleen | The Heights School                      | Lenz's and Faraday's Laws of<br>Electromagnetism              |
| 3rd | Sarah Rayan,<br>Damien Hunter                    | Mount Carmel College                    | Cave Formation<br>in Australia                                |
| 4th | Kalaivani Mahalingam                             | Our Lady of the Sacred Heart<br>College | Self-Functioning<br>Home                                      |

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*Rowe Scientific Pty Ltd congratulates all nominees and award recipients. May your talent continue to build upon those who have walked before you and along side you. May your scientific journey be enjoyable, purposeful and speckled with those special 'eureka' moments and perhaps even the rare prospect of a 'Nobel' event.*

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## KEY DATES 2024

**17 May**

Student registrations close

**10 June - 28 June**

Multimedia, Science Writing and  
Scientific Inquiry projects and  
Programming, Apps & Robotics  
reports submitted online

**22 July - 26 July**

Models & Inventions and Crystal  
Investigation reports submitted  
online

**27 July**

Programming, Apps & Robotics  
Judging Day

**30 July**

Poster, Photography, Models &  
Inventions, Games and Crystal  
Investigation project delivery

**2-4 August**

Open Day at Science Alive!

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