

# STS Exhibition & Presentation Day Program

- The Agora Theatre and Agora Cinema are located in the Agora Complex
- The Odeon is in Union Hall
- Signs will indicate directions to Ceremony Venues and information will also be given at the opening ceremony.

## Wednesday 4 November 2009

8:30am to 10.00am ONLY Registration in the foyer of Union Hall

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9.30am Exhibition open to invited guests, press and public in the Union Hall

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### 10.00am - 10.30am Official opening of the Exhibition and Presentation of School Awards

#### Union Hall

**Welcome:** Professor David Finlay, Dean, Faculty of Science, Technology and Engineering, La Trobe University.

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### 11.15am - 12.15pm Presentation of Lower Primary and Primary Awards (Prep to Year 6)

#### Agora Cinema

**Sections:** Experimental Research, Creative Writing and Computer Programs  
**Presenter:** Dr Lindy Lumsden, Arthur Rylah Institute

#### Agora Theatre

**Sections:** Inventions, Working Models, Science Photography, Video Productions, Class Project - Lower Primary and Posters Scientific Wall Charts  
**Presenter:** Dr Chris Fluke, Swinburne University of Technology

#### The Odeon

**Sections:** Games and Class Project - Primary  
**Presenter:** Dr Christine Redman, University of Melbourne

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### 12.30pm - 1.30pm Presentation of Junior, Intermediate and Open Awards (Years 7 to 12)

#### Agora Cinema

**Sections:** Games  
**Presenter:** Dr Emma Ryan-Weber, Swinburne University of Technology

#### Agora Theatre

**Sections:** Experimental Research, Inventions, Science Photography, Video Productions  
**Presenter:** Mr David Trotter, CSIRO Education

#### The Odeon

**Sections:** Creative Writing, Working Models, Computer Programs and Posters Scientific Wall Charts  
**Presenter:** Dr Sarah Maddison, Swinburne University of Technology

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*The Presentation of Awards will be completed by 1.30pm.*

The above Presenters have volunteered to be part of the Science Talent Search Exhibition and Presentation Day and contribute to the success of this day. The students, teachers and the Science Talent Search Committee would like to acknowledge their commitment and involvement in science education.

*Please note: The presenters listed were correct at the time of publication. Changes may be necessary due to unforeseen circumstances.*

Bursary book sponsored by





# 2009 Science Talent Search

**T**HE FACULTY OF SCIENCE, TECHNOLOGY  
AND ENGINEERING AT LA TROBE  
UNIVERSITY WELCOMES ALL YOUNG  
SCIENTISTS WHO ARE PARTICIPATING IN THE  
2009 SCIENCE TALENT SEARCH.

CONGRATULATIONS TO ALL OF YOU - THOSE WHO HAVE  
BEEN AWARDED PRIZES AND THOSE WHO HAVE TAKEN  
PART - BECAUSE THE REAL GAIN IS IN PARTICIPATING.

GREAT SCIENCE RESULTS FROM CURIOSITY,  
EXPLORATION AND KNOWLEDGE. IT IS STILL A GREAT  
ADVENTURE - ENJOY THE CHALLENGE!

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Talent Search

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The Science Teachers' Association of Victoria and the Co-Directors of the 58th Science Talent Search are grateful to the organisations who have given generous support to this year's competition; to the STS Committee for their enthusiastic and positive approach and to Kevin Coates, together with the staff of La Trobe University, for their co-operation and organisation of the Science Talent Search Exhibition and Presentation Day at La Trobe University.

We would also like to extend our appreciation to Methodist Ladies' College, Wesley College and Santa Maria College for the use of their facilities and assistance during the judging of Posters, Photography, Videos, Games, Computers, Models, Inventions and Class Projects.

In particular we also thank Anne-Marie Williams (Methodist Ladies' College), Maria Porter (Wesley College) and Eroia Barone-Nugent (Santa Maria College) for their work and support co-ordinating operations at the judging venues.

Finally a special thanks to all the teachers who volunteered to judge the many projects received. The judges are listed at the back of this Bursary Book.

## **The STS Committee**

The STS Co-directors extend their thanks and appreciation to the STS committee members who worked diligently throughout the year to ensure the competition ran smoothly. Committee members are listed on page 46.

## **STAV Business Centre**

The STS Committee would like to express its appreciation to the STS Project Officer, Ellen Finlay and the STAV Business Centre for their cooperation, understanding and assistance with the organisation of STS throughout the year. They have all given time willingly and have maintained their support for STS.

The STAV Business Centre includes:

Suzanne O'Shannessy (Executive Officer), Anne Heard (Receptionist), Kerry Gledhill (Accounts), Annette McKenna (Administrative Assistant) and Kellie Jackson (Desktop Publisher).

## **A very special thank you**

David Trotter has once again worked tirelessly on the STS databases.

David's expertise, persistence and unwavering support for STS is greatly appreciated.



## **STS School Awards**

### **Solway Primary School**

*Sponsored by Department of Education and Early Childhood Development*

### **East Doncaster Secondary College**

*Sponsored by Department of Education and Early Childhood Development*

### **Carey Baptist Grammar School**

*Sponsored by BHP Billiton and CSIRO*

### **Presbyterian Ladies College (Senior)**

*Sponsored by BHP Billiton and CSIRO*

## **The Hugh McKnight Encouragement Awards**

### **Serpell Primary School**

*Sponsored by Department of Education and Early Childhood Development*

### **Cheltenham Secondary College**

*Sponsored by Department of Education and Early Childhood Development*

### **St Leonards College: Cornish Campus**

*Sponsored by BHP Billiton and CSIRO*

### **Fintona Girls School**

*Sponsored by BHP Billiton and CSIRO*

# Agora Cinema: 11.15am - 12.15pm

## Experimental Research - Lower Primary

### Major Bursary \$65

Name	School	Title	Sponsor
Anand Bharadwaj & Luka Dickson	Clifton Hill Primary School	Do bushfires affect the soil in which plants grow	Catholic Education Office (Melbourne)
Charlotte Baker	St Leonard's College Cornish Campus	Do plants like music?	Rio Tinto Limited

## Experimental Research - Lower Primary

### Minor Bursary \$45

Name	School	Title	Sponsor
Caitlin Bryan	Carey Baptist Grammar School Donvale	The Moon and the weather	Independent Primary School Heads of Australia
Clare Jarecki & Jane Jarecki	Christian College Bellarine	Raw egg peeler	University of Ballarat: Science and Engineering
Miranda Walker	Glendal Primary School	Growing crystals	Chemistry Education Association
Patrick Edwards	Solway Primary School	How long does it take to boil the perfect egg?	Department of Education & Early Childhood Development
Aaron Schwan & Piper Montag	Wesley College (St Kilda Road)	Materials to build a structure	Dr Joy Bear

## Creative Writing - Lower Primary

### Major Bursary \$45

Name	School	Title	Sponsor
Alexander Smith	Brighton Primary School	Starry, starry night	Department of Education & Early Childhood Development
Chloe Leumont	Doncaster Gardens Primary School	Colours of space	Department of Education & Early Childhood Development
Megan Currie	Eltham East Primary School	We've left our solar system behind	Australian Skeptics Inc.
Jonathon Bishop	Firbank Grammar School (Sandringham House)	Who stole the Moon?	Department of Education & Early Childhood Development
Annabelle Holman	Firbank Grammar School (Sandringham House)	Starry, starry night	Independent Primary School Heads of Australia
Hugh McClymont	Firbank Grammar School (Sandringham House)	Colours of space	Powercor Australia
Stephanie Ferrali & Caroline Pick	St Catherine's School	Starry, starry night	Department of Education & Early Childhood Development

## Creative Writing - Lower Primary

### Minor Bursary \$30

Name	School	Title	Sponsor
Evie Krieger	Caulfield South Primary School	Starry, starry night	Rio Tinto Limited
Sean Chisholm	Eltham East Primary School	Starry, starry night	Department of Education & Early Childhood Development
Daniel Cuyler	Firbank Grammar School (Sandringham House)	Starry, starry night	Department of Education & Early Childhood Development
Ed Faulkner	Firbank Grammar School (Sandringham House)	Colours of space	Australian Skeptics Inc.
Ayshvarrya Naguleswaren	Glendal Primary School	Colours of space	The Royal Society of Victoria Inc.
Shin En (Belinda) Tan	Glendal Primary School	Starry, starry night	Australian Skeptics Inc.
Dilum Wimalaratne	Lyndale Primary school	How different life would be if we had no moon	Powercor Australia
Eleanor Bladon	Overnewton Anglican Community College	How different life would be if we had no moon	Victoria University: Health, Engineering & Science



## Creative Writing - Lower Primary (continued)

### Minor Bursary \$30

Name	School	Title	Sponsor
Priyanka Dayabhai	Serpell Primary School	My amazing space trip	Swinburne University of Technology
Christine Georgopoulos	Serpell Primary School	We've left our solar system behind	Powercor Australia
Jessica Ng	Serpell Primary School	Starry, starry night... Kakoi and Snowy's starry adventure	Department of Education & Early Childhood Development
Sarah Farnsworth	Tucker Road Primary School (Bentleigh)	The wonderful colours of space	Department of Education & Early Childhood Development

## Computer Programs - Lower Primary

### Major Bursary \$55

Name	School	Title	Sponsor
Michael Zhao	Roberts McCubbin Primary School	The simulation of the solar system	Department of Education & Early Childhood Development

## Computer Programs - Lower Primary

### Minor Bursary \$35

Name	School	Title	Sponsor
Kelvin Nguyen	Essex Heights Primary School	Trash buster	Swinburne University of Technology
Lucy Collecutt	Roberts McCubbin Primary School	The amazing space race	Department of Education & Early Childhood Development

## Experimental Research - Primary

### Major Bursary \$80

Name	School	Title	Sponsor
Justin Liu	Carey Baptist Grammar School Donvale	Solar energy	Australian Institute of Energy
Caitlin Doran & Orlaith Plowman	Christian College Bellarine	Meteorites and craters	University of Ballarat: Science and Engineering
Elisabeth Vrazas	Methodist Ladies' College	The effect of different types of water on the growth of plants	Department of Education & Early Childhood Development
Jemma Billingham & Becky Adamson	Ruyton Girls' School	What is the best way to stop avocado going brown?	Yakult Australia Pty Ltd
Janet Huang	Ruyton Girls' School	Vinegar vs household cleaners; which works better?	Australian Society for Biochemistry & Molecular Biology
Irene Park & Jacqui Willis	Ruyton Girls' School	What helps soap dissolve in water?	Chemistry Education Association
Katya Tselios & Harriet Wing	Ruyton Girls' School	What affects your balance?	Department of Education & Early Childhood Development
Katie Yang & Elizabeth Scarlett	Ruyton Girls' School	Sticky tape power	Australian Institute of Physics (Victorian Branch)

## Experimental Research - Primary

### Minor Bursary \$60

Name	School	Title	Sponsor
Olivia Bryan	Carey Baptist Grammar School Donvale	Gardening by the Moon	BHP Billiton
Alexander Gerraty	Carey Baptist Grammar School Kew	Mulching magic	Independent Primary School Heads of Australia
Althea Huf	Glendal Primary School	How important is light to plants?	BHP Billiton
Gabrielle Chesbrough & Bella Armstrong	Ruyton Girls' School	Which material is the most waterproof?	Independent Primary School Heads of Australia
Emily Dumbrell & Ro Allison	Ruyton Girls' School	Which chocolate melts the fastest?	BHP Billiton

# Agora Cinema: 11.15am - 12.15pm

## Experimental Research - Primary *(continued)*

### Minor Bursary \$60

Name	School	Title	Sponsor
Lucy Fowler & Alana Grollo	Ruyton Girls' School	What makes the biodegradable bag decompose?	Department of Education & Early Childhood Development
Emma Hosking & Phoebe Dammersmith	Ruyton Girls' School	Which brand of bandaids sticks the longest?	The Royal Society of Victoria Inc.
Sophie Kleiman & Georgia Johnson-King	Ruyton Girls' School	Which type of plant is most fire resistant?	Independent Primary School Heads of Australia
Zoe Pasvanis & Kate Leslie	Ruyton Girls' School	The way to keep frozen foods cold during summer	University of Melbourne: School of Physics
Natalie Rule & Charlotte Wirtz	Ruyton Girls' School	Which paper towel is the most absorbent?	Yakult Australia Pty Ltd
Annabelle Salmon & Tara McRae	Ruyton Girls' School	Is light really more attracted to dark colours?	University of Melbourne: School of Physics
Hettie Watkinson & Chloe Rosenberg	Ruyton Girls' School	Which type of hair band is the strongest?	Department of Education & Early Childhood Development
Grace Yuan & Ellen Tomkinson	Ruyton Girls' School	Exploding soft drink cans; which loses the least volume?	Department of Education & Early Childhood Development
Dean Risvanis	Serpell Primary School	Investigating the effect of continuous light on the growth of Blue Lake Climbing Beans	BHP Billiton
Kristen Cooke & Sarah Foster	Solway Primary School	Testing caramel milkshakes	Department of Education & Early Childhood Development
Natalie Piorunowski-Kane	St Leonard's College	How far does a cat travel from home?	Department of Education & Early Childhood Development
Jake Tyers	St Leonard's College	What happens to sea water when frozen?	The Royal Society of Victoria Inc.

## Creative Writing - Primary

### Major Bursary \$60

Name	School	Title	Sponsor
Stephanie Keramidas	Carey Baptist Grammar School Donvale	Starry, starry night	Rio Tinto Limited
Felicia Lee	Carey Baptist Grammar School Donvale	How different life would be if we had no moon	Swinburne University of Technology
Cristian Stella	Carey Baptist Grammar School Donvale	Ethan the lunatic and the stolen moon	Australian Skeptics Inc.
Vignesh Alagappan	Erasmus School	Space on paper	Swinburne University of Technology
Jessica Kwee & Nicola Dobinson	Fintona Girls School	Cosmos colours	BHP Billiton
Jessica Dexter	Firbank Grammar School (Turner House)	If Earth had no moon	Department of Education & Early Childhood Development
Hannah Small	Firbank Grammar School (Turner House)	How different life would be if there was no moon	Rio Tinto Limited
Shanika Palawaththa	Glendal Primary School	Starry, starry night	Department of Education & Early Childhood Development
Ahinsa Gunatilaka	Lauriston Girls School	Starry, starry night	Australian Skeptics Inc.
Deshamani Cooray & Thilini Wimalaratne	Lyndale Primary school	A starry starry night	Powercor Australia
Barbara Van Der Merwe	Shelford Girls Grammar School	Mission: Finding Pluto	Independent Primary School Heads of Australia
Kristin Cooke	Solway Primary School	We've left our solar system behind	Department of Education & Early Childhood Development



## Creative Writing - Primary

### Minor Bursary \$40

Name	School	Title	Sponsor
Isabella Gilbert	Ascot Vale Primary School	Starry, starry night...	Victoria University: Health, Engineering & Science
Bianca Katsiavos	Beaconhills College (Valley Campus)	Colours of space	Australian Skeptics Inc.
India Brummelen	Beaconhills College (Village Campus)	How different life would be if we had no moon	Independent Primary School Heads of Australia
Natasha Ockenden	Brighton Primary School	Starry starry night	Swinburne University of Technology
Shaveen Kariyawasam	Camberwell Grammar School	We've left our solar system behind	Australian Skeptics Inc.
Maddison Read	Carey Baptist Grammar School Donvale	Starry, starry night	Independent Primary School Heads of Australia
Tianni Leaumont	Doncaster Gardens Primary School	How different life would be if we had no moon	Department of Education & Early Childhood Development
Olivia Perrignon	Eltham East Primary School	Colours of space	Swinburne University of Technology
Veronique Price	Eltham East Primary School	Colours of space	Department of Education & Early Childhood Development
Erika Felton	Essendon North Primary School	How different life would be if we had no moon	Department of Education & Early Childhood Development
Rachel Eckert & Estelle Hanney	Fintona Girls School	Jealous Jupiter	Department of Education & Early Childhood Development
Lucy Kimber & Georgina Pynta	Fintona Girls School	Vanishing act	Australian Skeptics Inc.
Lauren Miles & Zara Wotherspoon	Fintona Girls School	Cast away	Independent Primary School Heads of Australia
Hannah Schaub & Madeleine Percy	Fintona Girls School	The quest to find the moon rock	Powercor Australia
Emma Ferguson	Fitzroy North Primary School	How to heal a broken star	Department of Education & Early Childhood Development
Jessica Hollinsworth	Lauriston Girls School	How different life would be if we had no moon	Independent Primary School Heads of Australia
Medina Muhic & Jelena Davidovic	Lyndale Primary school	We've left our solar system behind	The Royal Society of Victoria Inc.
Flyn Attwood-McInnes	Maharishi School	Starry, starry night	Independent Primary School Heads of Australia
Jemimah Jones	Presbyterian Ladies College	Starry, starry night	Swinburne University of Technology
Natalie Liu	Presbyterian Ladies College	Planet wars	Australian Skeptics Inc.
Kah-Lin Lee	Rosanna Golf Links Primary School	Starry, starry night	Swinburne University of Technology
Amber Sinclair	Solway Primary School	Chloe and Gemma's starry, starry night	Department of Education & Early Childhood Development
Rachael Beaumont	St Joseph's School	Colours of space	Catholic Education Office (Melbourne)
Sofia Grage-Moore	Toorak Primary School	How different life would be if we had no moon	Department of Education & Early Childhood Development
Anthony Tricker-Reissig	Wesley College (Glen Waverley)	We've left our solar system behind	Swinburne University of Technology



# Agora Cinema: 11.15am - 12.15pm

## Computer Programs - Primary

### Major Bursary \$70

Name	School	Title	Sponsor
Justin Yang	Glendal Primary School	Flight	Powercor Australia
Sam Farr & Zach Vandenhoven	Southmoor Primary School	Planet quest	Australian Institute of Physics (Victorian Branch)
Tabytha Finnegan	Southmoor Primary School	Stars	Australian Skeptics Inc.
Emily Marshall & Finn Lowenstein	Southmoor Primary School	Amazing marine life cycles	Swinburne University of Technology

## Computer Programs - Primary

### Minor Bursary \$50

Name	School	Title	Sponsor
Steven Brench & Nicholas Mayes	Girton Grammar School	The beginning	Australian Institute of Physics (Victorian Branch)
Joshua Koh	Glendal Primary School	Types of galaxies	Department of Education & Early Childhood Development
Keith Pang	Glendal Primary School	Starry, starry night	Victorian Teachers Credit Union Ltd
Mathushalini Raviraj & Vinuri Ranaweera	Lyndale Primary school	Stars	Swinburne University of Technology
Emily Williams	Methodist Ladies' College	The Moon and its phases	Australian Skeptics Inc.
Jye Lake & Kah-Sheng Lee	Rosanna Golf Links Primary School	The light speed calculator	Department of Education & Early Childhood Development

# Agora Theatre: 11.15am - 12.15pm

## Inventions - Lower Primary

### Major Bursary \$65

Name	School	Title	Sponsor
Robert Jeffery	Clifton Hill Primary School	Stop it	Department of Education & Early Childhood Development

## Working Models - Lower Primary

### Major Bursary \$55

Name	School	Title	Sponsor
Thomas Pang	Glendal Primary School	Life cycle of stars	Department of Education & Early Childhood Development

## Working Models - Lower Primary

### Minor Bursary \$35

Name	School	Title	Sponsor
Olivia Adrian & Ethan Adrian	Caulfield Grammar School (Malvern Campus)	Why do satellites stay in orbit?	Australian Institute of Physics (Victorian Branch)
Danielle Di Stefano	Overnewton Anglican Community College	My solar system	University of Ballarat: Science and Engineering
Luke Osbon	Overnewton Anglican Community College	What is the Sun?	Victoria University: Health, Engineering & Science
Harvi Shergill	Wesley College (Glen Waverley)	Saturn	Swinburne University of Technology



## Science Photography - Lower Primary

### Major Bursary \$45

Name	School	Title	Sponsor
Riley Turner	Carey Baptist Grammar School Donvale	Faces of the Moon	Department of Education & Early Childhood Development

## Video Productions - Lower Primary

### Minor Bursary \$35

Name	School	Title	Sponsor
Riley Arnold	Carey Baptist Grammar School Donvale	Rocket science	Department of Education & Early Childhood Development

## Class Project - Lower Primary

### Minor Bursary \$150

Name	School	Title	Sponsor
<b>Marymede Catholic College</b>		Rocket fins, do they affect height?	Department of Education & Early Childhood Development
Zara Andonovski	Adele Burn	Domenic Capomolla	Daniel Chiodi
Jackson Coulthard	Isabella Curra	Tanisha DeSilva	Ethan Devereux
Nadine Essery	Ashley Ferola	Massimo Gamboni	Joshua Ibrahim
Joel Isherwood	Courtney Johnson	Ricardo Krstevski	Katrina Maruff
Rachel Mellerick	Daniel Millar	Lee Missailidis	Kyri Nalpantidis
Mason Naumovski	Jason Pannam	Eboney Rawady	Latasha Sturrock
Sophie Temelkovska	Rachel Utting	Lucas Vasilevski	Alexandria Verdi
Mitchell Walker			

## Class Project - Lower Primary

### Minor Bursary \$150

Name	School	Title	Sponsor
<b>Marymede Catholic College</b>		Is bigger better? (bottle rockets)	Australian Skeptics Inc.
Kamaria Brancato	Amy Bresciani	Bethany Bzdel	Michael Cappola
Chantelle Cassar	Natasha DiStefano	Jacob Foschi	Dylan Georgievski
John Grasso	Erik Hall	Daniel Icaro	Nelson Kodua
Marc Kostakos	Amber Lucas	Samuel McDonald	Sarah Mizzi
Joseph Palumbieri	Taylor Popovski	Rachel Richards	Sarah Richards
Christopher Roussos	Deepal Singh	Arjun Sivaraj	Briana Strangis
Michael Udovicic	Renee Verna	Destiny Withers	Kyle Yankos
Kyara Zeibekkis			

## Class Project - Lower Primary

### Minor Bursary \$150

Name	School	Title	Sponso
<b>Marymede Catholic College</b>		How much water is too much? (Bottle rockets)	Swinburne University of Technology
Breanna Martin	Mitchell London	Kathrin Kunda	Makayla Karabetsos
Jordan Gualano	Maddison Grattidge	Beth Dislakis	Joseph D'Souza
Daniel Conforti	Danielle Chan	Bridget Cassar-Tangas	Joshua Caruso
Rochelle Carli	Jacob Cardamone	Alana Burn	Brianna Bueti
Emily Borg	Monica Bianco	Joseph Bianco	Thomas Albertin
Emily Millar	Alyssa Panozzo	Courtney Polgar	Damien Quadara
Damon Rudge	Louis Schmiedel	Declan Smith	David Veljanovski
Julian Zaccari			

# Agora Theatre: 11.15am - 12.15pm

## Posters and Scientific Wall Charts - Lower Primary

### Major Bursary \$45

Name	School	Title	Sponsor
Josh Mehra	Brighton Primary School	Changes in stars	Rio Tinto Limited
Nathan Demetriou	Carey Baptist Grammar School Kew	Machines in space	Dr Joy Bear
William Rozet	Eltham East Primary School	Machines in space	Department of Education & Early Childhood Development
Tilly Lacey	Mt Eliza Primary School	An earth with no moon	Department of Education & Early Childhood Development
Maria Olymbios	Serpell Primary School	What do we see in the night sky?	Department of Education & Early Childhood Development
Sara Janev	Shelford Girls Grammar School	What do we see in the night sky? The Moon.	Victorian Teachers Credit Union Ltd
Mia Pisano	Shelford Girls Grammar School	What do we see in the night sky? Stars.	Department of Education & Early Childhood Development
Luciana Martinez	Tucker Road Primary (Bentleigh)	Machines and space	Australian Skeptics Inc.

## Posters and Scientific Wall Charts - Lower Primary

### Minor Bursary \$30

Name	School	Title	Sponsor
Kirra Parks	Carey Baptist Grammar School Kew	What do we see in the night sky?	Independent Primary School Heads of Australia
Lucy Williams	Carey Baptist Grammar School Kew	Changes in stars	Department of Education & Early Childhood Development
Aedan Gordon	Caulfield South Primary School	Changes in stars	Chemistry Education Association
Thea Saini	Eltham East Primary School	How different life would be if we had no moon	Powercor Australia
Naveen Sreekrishnan	Glendal Primary School	What do we see in the night sky	Department of Education & Early Childhood Development
Caitlin Wakefield	Glendal Primary School	How different life would be if we had no moon	Department of Education & Early Childhood Development
Declan Wakefield	Glendal Primary School	Machines and space	Swinburne University of Technology
Julie Chong & Yannie Lin	Lauriston Girls School	What do we see in the night sky	Department of Education & Early Childhood Development
Maddy McComb	Mt Eliza Primary School	Earth without a moon	University of Ballarat: Science and Engineering
Alexander Ciccone	Overnewton Anglican Community College	How different life would be if we had no moon	Department of Education & Early Childhood Development
Austin Nguyen	Scotch College	Machines and space	Australian Institute of Energy
Joshua Trcka	St Thomas the Apostle Primary School	Telescopes and galaxies: why do they matter?	Department of Education & Early Childhood Development

## Inventions - Primary

### Major Bursary \$80

Name	School	Title	Sponsor
Conroy Cheers	Jells Park Primary School	Smart cars	Department of Education & Early Childhood Development
Madeline Long	Tucker Road Primary (Bentleigh)	Water saving	Swinburne University of Technology



## Inventions - Primary

### Minor Bursary \$60

Name	School	Title	Sponsor
Eamon Campbell-June	Clifton Hill Primary School	Dog leg	Department of Education & Early Childhood Development
Lachlan Moody	St Thomas the Apostle Primary School	Solar-power generating satellite	Dr Joy Bear

## Working Models - Primary

### Major Bursary \$70

Name	School	Title	Sponsor
Kieran Murray	Caulfield South Primary School	Robotic arm	University of Melbourne: School of Physics
Peter Lok	Glendal Primary School	Alternative energy	Minerals Council of Australia (Victorian Division)
Fletcher Hamilton	Our Holy Redeemer School	Water power	Catholic Education Office (Melbourne)
Anya Chelvanthurai	Presbyterian Ladies College	Telescope	Department of Education & Early Childhood Development

## Working Models - Primary

### Minor Bursary \$50

Name	School	Title	Sponsor
Rory Millar	Clifton Hill Primary School	Friction force	Department of Education & Early Childhood Development
Raisa Litchfield	Deepdene Primary School	Something's out there: the mystery of dark matter	Powercor Australia
James Dempsey	Girton Grammar School	Ten dollar battery	University of Ballarat: Science and Engineering
Christopher Skilton & Leroy Griffiths	Mt Eliza Primary School	Home working telescope	Swinburne University of Technology
Maxine Treisman	Serpell Primary School	Eclipse research	Department of Education & Early Childhood Development
Emma Volpe	Serpell Primary School	The Moon phases	Australian Skeptics Inc.
Adam Arff-Pavlakos	Toorak Primary School	Space roller	Department of Education & Early Childhood Development

## Science Photography - Primary

### Major Bursary \$60

Name	School	Title	Sponsor
Alexandra Lloyd	Methodist Ladies' College	Surviving in the gum trees	Independent Primary School Heads of Australia
Samuel Stevens & Olivia Minio	Mt Eliza Primary School	Flower power	Department of Education & Early Childhood Development
Phoebe Hindhaugh	Shelford Girls Grammar School	Colours of a sunset	Australian Skeptics Inc.
Luke Loncarevic	St Thomas the Apostle Primary School	Plant growth	Yakult Australia Pty Ltd
Sarah Loncarevic & Alana Daly	St Thomas the Apostle Primary School	Plant regeneration after fire	Department of Education & Early Childhood Development
Samantha Snape	Tucker Road Primary (Bentleigh)	Pollination	Department of Education & Early Childhood Development

# Agora Theatre: 11.15am - 12.15pm

## Science Photography - Primary

### Minor Bursary \$40

Name	School	Title	Sponsor
Mason Bijelic & Jaime Otene	Aitken College	How leaves protect themselves	Swinburne University of Technology
Ella Sutton	Caulfield Grammar School (Malvern Campus)	Luna vista: the phases of the moon	Department of Education & Early Childhood Development
Liam Bennett	Eltham East Primary School	Regeneration	Powercor Australia
Emily Fawcett	Girton Grammar School	Four phases of the moon	BHP Billiton
Isabel Foo	Presbyterian Ladies College	Faster than the eye can see	Department of Education & Early Childhood Development
Julia Paterson	Presbyterian Ladies College	How fossils are formed	Powercor Australia
Stephen Davey	Solway Primary School	The crescent moon	Department of Education & Early Childhood Development
Gemma Watkins	Solway Primary School	How sand is created	University of Melbourne: School of Physics
Peter Lachlan	Southmoor Primary school	Investigating raising agents	Swinburne University of Technology

## Video Productions - Primary

### Major Bursary \$70

Name	School	Title	Sponsor
Liam Mullens	Brighton Primary School	The black hole	Powercor Australia
Elizabeth Mulvany	Vermont Primary School	Zibo adventure	Department of Education & Early Childhood Development

## Video Productions - Primary

### Minor Bursary \$50

Name	School	Title	Sponsor
Kira Bassily	Carey Baptist Grammar School Donvale	Space news - aliens on Mars	Minerals Council of Australia (Victorian Division)
Alexander Humbert	Carey Baptist Grammar School Donvale	What happened the day the Earth stood still	Department of Education & Early Childhood Development
Lillian McLean	Essex Heights Primary School	Travelling the one billionth galaxy	Department of Education & Early Childhood Development
Amy Walsh & Holly Ashburner	Methodist Ladies' College	Discovering Mars	Swinburne University of Technology
Alicia Spyropoulos	Serpell Primary School	Our amazing night sky	Australian Skeptics Inc.

## Posters and Scientific Wall Charts - Primary

### Major Bursary \$60

Name	School	Title	Sponsor
Sean Fock	Camberwell Grammar School	Satellites	Department of Education & Early Childhood Development
Tara Wainer	Carey Baptist Grammar School Donvale	Machines and space	Swinburne University of Technology
Sayuj Datey	Carey Baptist Grammar School Kew	Changes in stars	Science and Mathematics Education & ICT Education
Lachlan Coman	Firbank Grammar School (Sandringham House)	Voyager - a journey without limits	Department of Education & Early Childhood Development
Daniel Coleman & Ben Kuhar	Fitzroy North Primary School	Space invaders	Australian Skeptics Inc.
Cassie Edwardson & Bella Mulcahy	Lauriston Girls School	What do you see in the night sky?	Department of Education & Early Childhood Development
Tara Jadwani-Bungar	Methodist Ladies' College	Luna eclipses: where is the moon?	BHP Billiton



## Posters and Scientific Wall Charts - Primary (continued)

### Major Bursary \$60

Name	School	Title	Sponsor
Astrid Nissila-Browne	Shelford Girls Grammar School	What do we see in the night sky? Comets	Swinburne University of Technology
Nathan Tran	Solway Primary School	Life of a star	Swinburne University of Technology
Georgina McNab & Brigitte Cantarella	St Catherine's School	How different life would be if we had no moon	Department of Education & Early Childhood Development
Rodney Chizik	The King David School (Magid Campus)	Space and machines	Swinburne University of Technology
Laura Johnson	Tucker Road Primary (Bentleigh)	What do we see in the night sky?	BHP Billiton

## Posters and Scientific Wall Charts - Primary

### Minor Bursary \$40

Name	School	Title	Sponsor
Jared Buratto	Carey Baptist Grammar School Donvale	Energy for machines in space	Tain Electronics Pty Ltd
Johanna Dimpfel	Carey Baptist Grammar School Kew	Changes in stars	Department of Education & Early Childhood Development
Jennifer Dyall	Carey Baptist Grammar School Kew	Machines in space	Department of Education & Early Childhood Development
Sam Ponsford	Carey Baptist Grammar School Kew	Machines in space	Department of Education & Early Childhood Development
Natalie Evans	Glendal Primary School	Changes in stars	Department of Education & Early Childhood Development
Patrick Leung-Chee-Hang	Glendal Primary School	Machines and space	BHP Billiton
Neehal Vilash	Glendal Primary School	Machines and space	Swinburne University of Technology
Louisa Zhang	Glendal Primary School	Machines and space	Swinburne University of Technology
Georgia Frazer	Methodist Ladies' College	Changes in stars	Department of Education & Early Childhood Development
James Konjarski	Overnewton Anglican Community College	Machines and space	Department of Education & Early Childhood Development
Tom Olymbios	Serpell Primary School	Machines in space	Powercor Australia
Esdra Sicari	Serpell Primary School	Machines in space	Swinburne University of Technology
Zoe Canestra	Shelford Girls Grammar School	What do we see in our night sky? Dwarf Planets	Swinburne University of Technology
Chelsea Landwehr	Shelford Girls Grammar School	What do we see in the night sky? The Moon.	Department of Education & Early Childhood Development
Tiana Bagnato & Mikaela Johnson	St Joseph's Primary School (Northcote)	What do we see in the night sky?	Swinburne University of Technology
Elisa Harrison	St Thomas the Apostle Primary School	How a lunar eclipse affects the world	Powercor Australia
Sasha Goldenberg & Darren Flaks	The King David School (Magid Campus)	Space and machines	Department of Education & Early Childhood Development

# The Odeon: 11.15am - 12.15pm

## Games - Lower Primary

### Major Bursary \$45

Name	School	Title	Sponsor
Alessia Zampogna	Caulfield South Primary School	Connecting the world: come play the satellite game	Department of Education & Early Childhood Development
Larshieegah Senthilmohan	Glendal Primary School	Solar quiz	BHP Billiton
Brooke Hughes	Overnewton Anglican Community College	Astronomy monopoly	Victoria University: Health, Engineering & Science
Alice O'Sullivan & Alec Maccora	St Leonard's College Cornish Campus	Wetland rescue	Independent Primary School Heads of Australia
Josie Summers & Max Sorensen	St Leonard's College Cornish Campus	Get the wetland pieces	Australian Skeptics Inc.

## Games - Lower Primary

### Minor Bursary \$30

Name	School	Title	Sponsor
Axel Blitzman	Brighton Primary School	The spinning world of science	Swinburne University of Technology
Sunjay Kamalanathan & Aseem Thakur	Lyndale Primary school	Pluto	Department of Education & Early Childhood Development
Rhiannon Wilson	Methodist Ladies' College	Space time	Department of Education & Early Childhood Development
Justyn Bove	Serpell Primary School	Sky high moon race board game	Department of Education & Early Childhood Development
Vasili Corfios	Serpell Primary School	Moon ride	Department of Education & Early Childhood Development
Alyssa Emmanouel	Serpell Primary School	Space race	University of Melbourne: School of Physics
Cormac Fleming	St Joseph's School	Scientific subtractions	Catholic Education Office (Melbourne)
Ryan Chessum & Tristan Scheirs	St Leonard's College Cornish Campus	Superb wetland makers	Chemistry Education Association
Tanner Ellis & Conan Gloury	St Leonard's College Cornish Campus	Pond paradise	Swinburne University of Technology
Holly Jones & Niamh Jones	St Leonard's College Cornish Campus	Rubbish trouble	Independent Primary School Heads of Australia
Lachlan McJorrow & Joel Edgely	St Leonard's College Cornish Campus	Little adventures	Department of Education & Early Childhood Development
Bryce Forlano	Trinity Grammar School	Space race	The Royal Society of Victoria Inc.
Leon Keam & Brandon Duan	Wesley College (St Kilda Road)	Material properties	Rio Tinto Limited
Lucas Noack & Phoebe Grace	Wesley College (St Kilda Road)	Building science	Independent Primary School Heads of Australia

## Games - Primary

### Major Bursary \$60

Name	School	Title	Sponsor
Andrew Oldfield	Beaconhills College (Village)	Science game	Department of Education & Early Childhood Development
Robert Leaver	Carey Baptist Grammar School Kew	The solar wind: a journey through the solar system	Independent Primary School Heads of Australia
Elena Couper & Teresa Di Pietro	Fintona Girls School	Ring a ring a rosie, we all fall down	Australian Skeptics Inc.
Matilda De Marinis & Cailin Hased	Fintona Girls School	The tornado of Oz	Department of Education & Early Childhood Development
Suzannah Roushdy & Eloise Smith	Fintona Girls School	Ring of fire	Swinburne University of Technology



## Games - Primary (continued)

### Major Bursary \$60

Name	School	Title	Sponsor
Rebecca Vasilas & Angela Pan	Fintona Girls School	Cyclone terror	Independent Primary School Heads of Australia
Sabina Xiao & Gemion Court	Fintona Girls School	Disaster zone	The Royal Society of Victoria Inc.
Tavish Eenjes & Hugh Porter	Girton Grammar School	To the Oort cloud and beyond	University of Ballarat: Science and Engineering
Alison Ford	Glendal Primary School	The Hubble telescope	Department of Education & Early Childhood Development
Victoria Graves & Daphne Ang	Kilvington Girls' Grammar	Race to space	Swinburne University of Technology
Simone Rizio & Lucy Thompson	Kilvington Girls' Grammar	3... 2... 1... Blastoff!!	Science and Mathematics Education & ICT Education
Yejin Song & Cassie De Nardis	Kilvington Girls' Grammar	Planet Buzz	Powercor Australia
Jessica Sexton & Emily Spagnol	Our Holy Redeemer School	Journey to the Sun	Catholic Education Office (Melbourne)
Gemma Robinson	Shelford Girls Grammar School	Our world, our deforestation	Rio Tinto Limited
Laura Halliday & Jordan White	St Leonard's College Cornish Campus	Froggy environment	Australian Society for Biochemistry & Molecular Biology
Austin Hollingsworth & Sam Ralph	St Leonard's College Cornish Campus	Creek crisis	Field Naturalists Club Of Victoria
Matthew Johnston	St Leonard's College Cornish Campus	Apollo 18	Independent Primary School Heads of Australia
Matthew Percival	St Leonard's College Cornish Campus	Race of the wetlands	Department of Education & Early Childhood Development
Bella Poon & Megan Petrie	Strathcona Baptist Girls Grammar School	Race around space	Victorian Teachers Credit Union Ltd

## Games - Primary

### Minor Bursary \$40

Name	School	Title	Sponsor
Charlie Harding	Camberwell Grammar School	Solar gravity	Science and Mathematics Education & ICT Education
Nicholas Wong	Camberwell Grammar School	Astronomo	The Royal Society of Victoria Inc.
Kyle Gibson & Kaela Gibson	Camelot Rise Primary School	Constellation chaos!	BHP Billiton
Kiara Perin & Madeleine Palmer	Carey Baptist Grammar School Donvale	Space trivia adventurer	Department of Education & Early Childhood Development
Calvin Lu	Carey Baptist Grammar School Kew	Travel through space	Swinburne University of Technology
Charley Malligan & Ashley Chong	Caulfield South Primary School	The way of the Milky Way	Department of Education & Early Childhood Development
Riley Doran & James Arthur	Christian College Bellarine	Journey through space	Australian Skeptics Inc.
Roland Baker	Clifton Hill Primary School	Atoms and molecules	Chemistry Education Association
Millie Murphy & Rachelle Papantuono	Clifton Hill Primary School	Space hadron challenge	Department of Education & Early Childhood Development
Louise Gregory & Alex Hogg	Deepdene Primary School	Race through space	Department of Education & Early Childhood Development
Bridie Cochrane-Holley & Brydie Parker	Fintona Girls School	The tsunami barmy	Swinburne University of Technology
Rebekah Ludlow & Stephanie Yang	Fintona Girls School	Disaster	Powercor Australia
Abella Man & Thi Truong	Fintona Girls School	Earthquake alert	Independent Primary School Heads of Australia



# The Odeon: 11.15am - 12.15pm

## Games - Primary (continued)

### Minor Bursary \$40

Name	School	Title	Sponsor
Shirley Tang & Jemimah Hamilton	Fintona Girls School	Disaster dash	Department of Education & Early Childhood Development
Selina Thai & Annie Shen	Fintona Girls School	When earthquakes strike	Powercor Australia
Zoe Zhang & Catherine Wen	Fintona Girls School	Tsunami escape	Rio Tinto Limited
Heidi Farrer	Firbank Grammar School (Turner House)	Jupiter's moons	Science and Mathematics Education & ICT Education
Poppy Frances	Girton Grammar School	Planet tour	University of Ballarat: Science and Engineering
Kevin Yan	Glendal Primary School	Heat energy	Department of Education & Early Childhood Development
Chloe Charbonnier & Arwen Vernon	Kilvington Girls' Grammar	Quest of the planets	The Royal Society of Victoria Inc.
Kiri Giannakopoulos & Miho Fujishima	Kilvington Girls' Grammar	There is a party in space	University of Melbourne: School of Physics
Jennifer Jin & Ellen Chick	Kilvington Girls' Grammar	Construct-a-ship	Victorian Teachers Credit Union Ltd
Diana Kim & Ellen Xafis	Lauriston Girls School	Galaxore	Swinburne University of Technology
Jason Zoch & Brandon Butler	Maharishi School	Space travel	Powercor Australia
Laura Magrath & Alice Karn	Our Holy Redeemer School	The space race	Catholic Education Office (Melbourne)
Alexandra Sexton & Chloe Verbeek	Our Holy Redeemer School	Space mission	Department of Education & Early Childhood Development
Per Henriksen	Serpell Primary School	Galaxy gladiators	Department of Education & Early Childhood Development
Lucy Chesterfield & Michelle Acker	Shelford Girls Grammar School	Space match	Australian Skeptics Inc.
Danielle Clarke	Shelford Girls Grammar School	On your tail	Swinburne University of Technology
Chloe Giamadakis	Shelford Girls Grammar School	Space tourism	Department of Education & Early Childhood Development
Jessica Latimer	Solway Primary School	Race through space	Victorian Teachers Credit Union Ltd
Samantha Sheppard & Emily Eager	Solway Primary School	Super splendid spectacular space!	Department of Education & Early Childhood Development
Ruby Bell & Zak Rowden	St Leonard's College Cornish Campus	Water problems	Department of Education & Early Childhood Development
Kaili De Baugy & Hayley Silvester	St Leonard's College Cornish Campus	Save the environment	Swinburne University of Technology
Emma Ferguson & Emily Fifield	St Leonard's College Cornish Campus	Ready steady clean	Australian Skeptics Inc.
Benjamin Gonsalvez & Tessa Edwards	St Leonard's College Cornish Campus	Don't mess with the water	Department of Education & Early Childhood Development
Kai Longmore & Alex Kebbell	St Leonard's College Cornish Campus	Water you really doing?	Department of Education & Early Childhood Development
James Toogood & Dylan Were	St Leonard's College Cornish Campus	Table trouble	Independent Primary School Heads of Australia

# The Odeon: 11.15am - 12.15pm



## Class Project - Primary

### Major Bursary \$350

Name	School	Title	Sponsor
<b>Lyndale Primary school</b>		The sky and weather	Department of Education & Early Childhood Development
<i>Liana Ashlakoff Kornitta Teng</i>	<i>Paul Chenm</i>	<i>Karim Daou</i>	<i>Tharushi Marasinghe</i>

## Class Project - Primary

### Minor Bursary \$200

Name	School	Title	Sponsor
<b>Southmoor Primary School</b>		Rations rat race	Department of Education & Early Childhood Development
<i>Delilah Russell Aimee Bowley Leroy Hutchison James Nardella George Xydias George Tannous Roshan Petch</i>	<i>Dayna Hamilton Tasha Lorenz Leah Currie Jack Webster Corinne Giagtzis-Synodinos Grace O'Shea Tatiana Mason</i>	<i>Casey Hart Sam Peppard Justine Mogueis Hope Kemp Brad Newell Michael Booker</i>	<i>Bridget Lawford Olivia May Jasmine Ruffin Henry Tang Anthony Beard Polly Krasey-Evans</i>

## Class Project - Primary

### Minor Bursary \$200

Name	School	Title	Sponsor
<b>St Thomas the Apostle Primary School</b>		Does soap really kill indigenous plants?	Department of Education & Early Childhood Development
<i>James Polazzon Olivia Caruana Charlotte Evans Brodie Legg Caitlyn Mefflin Dimitri Plessas</i>	<i>Gagandeep Bhogal Eliza Clarke Amy Fredricksen Isabella Liuggi Lachlan Moody Tayla Presser</i>	<i>Sage Brandini Jake Cortese Elisa Harrison Luke Loncarevic James Mowlam Joshua Trcka</i>	<i>James Brennan Stacey Daisley James Le Mottee Kyle Mahony Mia Oppedisano Cassandra Zacagnini</i>

# Agora Cinema: 12.30pm - 1.30pm

## Games - Junior

### Major Bursary \$70

Name	School	Title	Sponsor
Atakan Deniz & Joshua Ring	Brunswick Secondary College	Mars: the final frontier	Department of Education & Early Childhood Development
Sarah Elhay & Bridget Penington	Brunswick Secondary College	Magnificent magnet fun	Powercor Australia
Lucy McMillan & Helen Tsantikos	Brunswick Secondary College	Pollution patrol	Victoria University: Health, Engineering & Science
Sunny Chisholm & Eliza Cooper	Cheltenham Secondary College	Orpinion	Department of Education & Early Childhood Development
Chelsea Morrow	Cheltenham Secondary College	Lost in space	Swinburne University of Technology
Chris Bottrell	Christian College Geelong	Star-struck	University of Ballarat: Science and Engineering
Clarissa Kwee & Melissa Tien	Fintona Girls School	Journey to the stars	Swinburne University of Technology
Grace Wright & Shona Li	Fintona Girls School	Galaxy quest	Victorian Teachers Credit Union Ltd

# Agora Cinema: 12.30pm - 1.30pm

## Games - Junior (continued)

### Major Bursary \$70

Name	School	Title	Sponsor
Kieran Elliott	Maribyrnong Secondary College	Aussie safari: animal conservation	Field Naturalists Club Of Victoria
Kelsey Van Den Driesen	Methodist Ladies' College	A new world	Australian Skeptics Inc.
Victoria Heard	Our Lady of Sion College	Space station galactica spectacular	Department of Education & Early Childhood Development
Cameron Cullis & Christopher Chapman	St Leonard's College Brighton	Hz	Department of Education & Early Childhood Development
Naomi Rubenstein & Sophie Fink	The King David School (Magid Campus)	Race through space	Australian Institute of Physics (Victorian Branch)
Jacob Landy	Xavier College, Burke Hall Campus	Escape the labyrinth of doom	Australian Skeptics Inc.

## Games - Junior

### Minor Bursary \$50

Name	School	Title	Sponsor
Leah Bell & Rebecca Costa	Avila College	Hole lot of black	Powercor Australia
Courtney Lindeman	Avila College	Star-gazing	Rio Tinto Limited
Ellen Pollock	Bentleigh Secondary College	Elemental pursuit	Chemistry Education Association
Lucy Mitchell	Catholic College Bendigo (La Valla)	Space race	University of Ballarat: Science and Engineering
Steven Gerakalis	Cheltenham Secondary College	Worm hole	BHP Billiton
Evelyn Boldt	East Doncaster Secondary College	The black hole	Department of Education & Early Childhood Development
Quentin Chan & Stephanie Tang	East Doncaster Secondary College	Black hole breakdown	Department of Education & Early Childhood Development
Jordan McLean & Jake Garbellini	East Doncaster Secondary College	Spaceopoly	Australian Skeptics Inc.
Arron Mong	East Doncaster Secondary College	Battle for harvest	Department of Education & Early Childhood Development
Sophie Scott & Letitia Ng	East Doncaster Secondary College	Journey 2 D Moon	Swinburne University of Technology
Jane Harding & Monique Taylor	Loreto Mandeville Hall	The electric wonder	Swinburne University of Technology
Daniel Borys	Mentone Grammar School	Space quiz	Department of Education & Early Childhood Development
Pat Grant & Tom Monagle	Mentone Grammar School	Mission space	BHP Billiton
Hunter Scanlon	Mentone Grammar School	Beyond the Moon	Powercor Australia
Natacha Wonneberger	Mentone Grammar School	The big star	Australian Skeptics Inc.
Nell Cutbertson	Methodist Ladies' College	High tide	Australian Skeptics Inc.
Eugenie Pan & Hiliary Hiscock	Methodist Ladies' College	The space race	Chemistry Education Association
Amanda St John & You Joung Sohn	Methodist Ladies' College	Astro mice	Department of Education & Early Childhood Development
Catherine Feng & Divya Koujalgi	Mount Waverley Secondary College	The travel in space	Swinburne University of Technology
Callum Griffiths & Jackson Jones	Mount Waverley Secondary College	Collect the solar system	Department of Education & Early Childhood Development
Nicole Nesbitt & Cushla Foe	Mount Waverley Secondary College	Blast off	Department of Education & Early Childhood Development
Cartia Gervasoni & Louisa Murgio	Santa Maria College	In danger	Department of Education & Early Childhood Development
Natalie Latkoska & Ivy Nguyen	Santa Maria College	Keep cool	The Royal Society of Victoria Inc.
Nicole Lucchesi & Mia Spalliera	Santa Maria College	Beat the waste	Powercor Australia



## Games - Junior *(continued)*

### Minor Bursary \$50

Name	School	Title	Sponsor
Laura McMahon & Gretta Clarke	Santa Maria College	Beyond the reef	Department of Education & Early Childhood Development
Matina Sinodinos	Santa Maria College	Construction destruction	Swinburne University of Technology
Madilyn Tavan & Christina Sudano	Santa Maria College	Environmental pursuit	Swinburne University of Technology
Hugh Duffy	Scotch College	Shuttle repair	Department of Education & Early Childhood Development
Lachlan Stock	St Bedes College	Race through space	The Royal Society of Victoria Inc.
Max McConnell	St Leonard's College Brighton	Darting Thru Space	Department of Education & Early Childhood Development
Shannon Castle	Sunbury Downs Secondary College	Orbital	Yakult Australia Pty Ltd
Mackenzie Fermaner & Lisa Curran	Sunbury Downs Secondary College	Super massive black hole	Department of Education & Early Childhood Development
Kerrie Howard	Sunbury Downs Secondary College	Space race	Australian Skeptics Inc.
Katie Rawet	Sunbury Downs Secondary College	Astronomy sketch	University of Ballarat: Science and Engineering
Jamie Bild & Siobhan Joffe	The King David School (Magid Campus)	Astronomical unit	Department of Education & Early Childhood Development
Joshua Andrade	Xavier College, Burke Hall Campus	Earth invasion	Minerals Council of Australia (Victorian Division)
Samuel Barson	Xavier College, Burke Hall Campus	Human body challenge	Department of Education & Early Childhood Development
Matthew Yii	Xavier College, Burke Hall Campus	Magneplay	Minerals Council of Australia (Victorian Division)

## Games - Intermediate

### Major Bursary \$85

Name	School	Title	Sponsor
Joyce Chan & Elizabeth Ross	Korowa Anglican Girls School	Are you balanced?	Department of Education & Early Childhood Development
Lilian Phu & Jenny Kuoch	Our Lady of Sion College	Space dimensions	Powercor Australia
Pallavi Shridhar & Natasha Mohd Azri	Presbyterian Ladies College	Constellation concentration	Swinburne University of Technology

## Games - Intermediate

### Minor Bursary \$65

Name	School	Title	Sponsor
Breanna Wu & Alexandra Ding	Presbyterian Ladies College	Lost in space	Department of Education & Early Childhood Development

# Agora Theatre: 12.30pm - 1.30pm

## Experimental Research - Junior

### Major Bursary \$95

Name	School	Title	Sponsor
Sarah Miles	Fintona Girls School	Environmental effects on yeast growth	Australian Society for Biochemistry & Molecular Biology
Stephanie Douvos	Genazzano FCJ College	Where can I get the best sound?	Catholic Education Office (Melbourne)
Brittany Munro & Karena Ye	Methodist Ladies' College	The effect different mediums have on grass seed growth	Department of Education & Early Childhood Development
Alexander Ingham	St Kevin's College Junior School	Newtonian laws of cooling	Australian Institute of Physics (Victorian Branch)
James McClure	The Hamilton and Alexandra College	The most water efficient roofing	University of Ballarat: Science and Engineering

## Experimental Research - Junior

### Minor Bursary \$75

Name	School	Title	Sponsor
Davin Burvill	Braemar College	Light bulbs - How much light do we get from our energy	Victoria University: Health, Engineering & Science
Samantha Keehner	Braemar College	The effects of coloured light on the germination of mung beans	Victoria University: Health, Engineering & Science
Daniel Waters	Caulfield Grammar School (Caulfield Campus)	Walking on water	Australian Skeptics Inc.
Leonard Zou	Doncaster Secondary College	The right bounce from your basketball	BHP Billiton
Kel Ang	Fintona Girls School	Corrosion of different metals	Chemistry Education Association
Isabella Beudel	Fintona Girls School	Salt and pH and it's affect on Azolla	Swinburne University of Technology
Esther Le Couteur	Fintona Girls School	Enviro-friendly gardening	BHP Billiton
Gillian Lee	Fintona Girls School	Keep it cool	BHP Billiton
Stephanie Lee	Fintona Girls School	Now you see it, now you don't!	Australian Skeptics Inc.
Olivia Plymin	Fintona Girls School	Vitamin C content of vitamin enriched waters	Yakult Australia Pty Ltd
Min Jia Tang & Aimy Tran	Fintona Girls School	Which method is most effective in preventing mould?	Powercor Australia
Annie Zhang	Fintona Girls School	Do preservatives really stop the growth of bacteria?	Department of Education & Early Childhood Development
Emily Moroney	Genazzano F C J College	Reaction test	Catholic Education Office (Melbourne)
Emily Greenwood & Lexie Finnin	Kilvington Girls' Grammar	Which raising agent raises muffins best?	Australian Society for Biochemistry & Molecular Biology
Georgia Benjamin	Melbourne Girls Grammar (Merton Hall)	Which type of glass is more insulating and can help the world save energy?	Australian Institute of Energy
Grace Hamer	Melbourne Girls Grammar (Merton Hall)	The flammability of different materials	Australian Skeptics Inc.
Charlotte Hoy	Melbourne Girls Grammar (Merton Hall)	The effectiveness of a variety of cleaners	The Royal Society of Victoria Inc.
Lucy Joel & Mary Waters	Melbourne Girls Grammar (Merton Hall)	Do the ingredients in ginger beer affect its tendency to explode?	Department of Education & Early Childhood Development
Jacqueline Song	Melbourne Girls Grammar (Merton Hall)	The effectiveness of natural cleaners versus store bought cleaners	Swinburne University of Technology
Valeria Vollenbroich & Elise Jasper	Melbourne Girls Grammar (Merton Hall)	Effects of different citrus juices on the browning process of cut apples	Yakult Australia Pty Ltd
Ellie Dammary & Annabel Glanville	Methodist Ladies' College	Weed killers	Australian Society for Biochemistry & Molecular Biology
Sophie Dudley & Kaori Nakase	Mount Waverley Secondary College	Speedy sprints with a selection of shoes	Department of Education & Early Childhood Development
Theone Van Der Merwe	Mount Waverley Secondary College	Shakespeare	Department of Education & Early Childhood Development



## Experimental Research - Junior *(continued)*

### Minor Bursary \$75

Name	School	Title	Sponsor
Erica Zhou	Mount Waverley Secondary College	Salted	BHP Billiton
James Prosser	St Kevin's College Junior School	The effect of different oils on the ball bearings in a skateboard	Department of Education & Early Childhood Development
Alex Ross	St Kevin's College Junior School	The effect of high and low gears on bicycles	Catholic Education Office (Melbourne)
William Suhr	St Kevin's College Junior School	The effect of acidic solutions on egg shells	Catholic Education Office (Melbourne)
Tiana Moutafis	St Leonard's College Brighton	What's eating your teeth?	Department of Education & Early Childhood Development
Rachelle Soumprou & Sarah Keane	Strathcona Baptist Girls Grammar School	How clean are your clean hands really?	Swinburne University of Technology
Natasha Whitehead	The Hamilton and Alexandra College	The enhanced greenhouse effect	University of Ballarat: Science and Engineering

## Inventions - Junior

### Major Bursary \$95

Name	School	Title	Sponsor
Anna Richardson & Charlotte Paton	Mentone Girls' Grammar School	Roof irrigation system	Australian Institute of Energy
Rajvignesh Muragan & Cletas Mariyadis	St James College	Untitled	Catholic Education Office (Melbourne)
James Maccarone	St Kevin's College Junior School	Propagation of seeds	Australian Society for Biochemistry & Molecular Biology
Joshua Owies	St Kevin's College Junior School	Early warning fire detection system	Department of Education & Early Childhood Development
Paddy Tymms	St Kevin's College Junior School	Doctor Swing 2	Swinburne University of Technology

## Inventions - Junior

### Minor Bursary \$75

Name	School	Title	Sponsor
Lauren Meintjes	Flinders Christian Community College (Carrum Downs)	Garbage separator	Swinburne University of Technology
Lisa Rayner	Kew High School	Towa 1596 Venus Rover	Department of Education & Early Childhood Development
Addie Robins & Hayley Pollock	Methodist Ladies' College	Automatic plant watering system	Swinburne University of Technology
Joseph Cullinan	St Kevin's College	Easy seeder	Catholic Education Office (Melbourne)
Ben Malysiak	St Kevin's College	The fell bel	BHP Billiton
Mark Shallue	St Kevin's College	Safety ladder	Victorian Teachers Credit Union Ltd
Conor Utri	St Kevin's College	Compressed air shock system	University of Melbourne: School of Physics
Peter Watkins	St Kevin's College	Tomorrow's bag today	Powercor Australia

# Agora Theatre: 12.30pm - 1.30pm

## Science Photography - Junior

### Major Bursary \$70

Name	School	Title	Sponsor
Stephanie Forber	Berwick Secondary College	Science in pruning	Department of Education & Early Childhood Development
Antony Zoides	East Doncaster Secondary College	Our changing coastlines	The Royal Society of Victoria Inc.
Dinesh Arulprakasan	Lyndale Secondary College	Washed away	Department of Education & Early Childhood Development
Isabella Etna	Wesley College (St Kilda Road)	Colour changes in the sky	Swinburne University of Technology

## Science Photography - Junior

### Minor Bursary \$50

Name	School	Title	Sponsor
Michael Clark	Clarks Park Home School	The life of a bulb	Swinburne University of Technology
James Courtney	East Doncaster Secondary College	Upper arm muscles used during rock climbing	Department of Education & Early Childhood Development
Natalie Smith	East Doncaster Secondary College	Brownian motion	Department of Education & Early Childhood Development
Bridget Agnoletto	Mentone Grammar School	Plant growth	Swinburne University of Technology
Cassie Litchfield	Methodist Ladies' College	Astro Photography	Chemistry Education Association
Emma Perkins	Methodist Ladies' College	Fireworks	Department of Education & Early Childhood Development
Nicky Tomkins	Methodist Ladies' College	Blue green algae	Australian Skeptics Inc.
Lidia Cavalieri	Santa Maria College	Erosion	Powercor Australia
Mervyn Douer	Southwood Boys Grammar School	Aquatic fern growth and reproductions	Yakult Australia Pty Ltd
Matthew Downes	Southwood Boys Grammar School	Fractals in nature	University of Melbourne: School of Physics
Jack Slykhuis	St Leonard's College Brighton	Oxidation	Chemistry Education Association
Elissa Cohen	The King David School (Magid Campus)	Growing stalactites and stalagmites	Department of Education & Early Childhood Development
Morgan Peach	Wesley College (St Kilda Road)	30-second ice cream	Australian Skeptics Inc.

## Video Productions - Junior

### Major Bursary \$80

Name	School	Title	Sponsor
Jeremy Bonwick	Scotch College	Lenses through lenses	Australian Society for Biochemistry & Molecular Biology
Connor Randles	Xavier College, Burke Hall Campus	Galileo Galilei	Department of Education & Early Childhood Development

## Video Productions - Junior

### Minor Bursary \$60

Name	School	Title	Sponsor
Ariel Johnson	Billanook College	Something cheesey is happening in space and it ain't the Moon!	Powercor Australia
Ruby Moxy Fithall & Alexia Brehas	East Doncaster Secondary College	Forces	Department of Education & Early Childhood Development
Matthew Wallace	East Doncaster Secondary College	Save Pluto	Department of Education & Early Childhood Development
Lewis Clarke & Chris Leonidas	Mentone Grammar School	The face on Mars	Australian Skeptics Inc.



## Experimental Research - Intermediate

### Major Bursary \$115

Name	School	Title	Sponsor
Katelyn Dartnell	Kilvington Girls' Grammar	Using responses to colour to measure the emotional development of different female age groups	Department of Education & Early Childhood Development
Frank Bird	Kingswood College	Comparing energy saving & incandescent light globes	Australian Institute of Energy
Zoe Chong & Shirley Jap	Mount Waverley Secondary College	How age affects memory?	BHP Billiton
Natalie Gnoato & Tess Gardiner	Ruyton Girls' School	How much isolation do different types of earbud earphones provide?	Department of Education & Early Childhood Development
Matthew Karpinsky	St Joseph's College Geelong	Soundproofing	Catholic Education Office (Melbourne)
Emma Sanderson & Alexandra Pettigrew	St Joseph's College Mildura	An investigation into subliminal messaging	University of Ballarat: Science and Engineering

## Experimental Research - Intermediate

### Minor Bursary \$95

Name	School	Title	Sponsor
Sarah Sims	Doncaster Secondary College	Nail polish in a flash	Department of Education & Early Childhood Development
Jack Maxwell & Jacob Ballard	East Doncaster Secondary College	Energy drinks: good or bad for plants?	Rio Tinto Limited
Joseph So & Nick Hughes	East Doncaster Secondary College	STS on energy drinks	Powercor Australia
Jess Bahn	Kilvington Girls' Grammar	Distractions that affect short term memory	Department of Education & Early Childhood Development
Grace Broomfield	Kilvington Girls' Grammar	The effect of breakfast on the mental abilities of teenagers	BHP Billiton
Bianca Mohan & Laura Lamech	Kilvington Girls' Grammar	Comparing the masses of solids and liquids	Swinburne University of Technology
Mark Jenkins	Mount Eliza Secondary College	The flammability of trees	Field Naturalists Club of Victoria
Joanna Herrmann	Presbyterian Ladies College	Retention of vision	Department of Education & Early Childhood Development
Ashleigh Appleby	Ruyton Girls' School	The effects of chlorinated hair	BHP Billiton
Emily Goddard & Rose Savage	Ruyton Girls' School	What type of chips, McDonald's or Nandos, has the most fat?	Swinburne University of Technology
Molly Lombardi & Morgan Lewis	Ruyton Girls' School	The adhesiveness of different types of Band-aids	Department of Education & Early Childhood Development
Rylie Wallace & Natasha Kotsimbos	Ruyton Girls' School	Comparative investigation of vitamin C in various citrus fruits	Australian Skeptics Inc.
Haymen Ye & Georgia Walsh	Ruyton Girls' School	What type of water is the purest?	BHP Billiton
Zachary Fitzgerald	St Joseph's College Geelong	Safe driving habits on public roadways	Swinburne University of Technology
Hugo Le Clerc	St Joseph's College Geelong	Which brand tennis ball is the highest bouncing?	Catholic Education Office (Melbourne)

## Inventions - Intermediate

### Minor Bursary \$95

Name	School	Title	Sponsor
Michael Failla & Don Bopearachchi	Heathdale Christian College	Solar-powered whipper snipper	Victoria University: Health, Engineering & Science
Cissy Fang	Kew High School	Safety umbrella	Department of Education & Early Childhood Development
Cameron Petrie	Kingswood College	Hover technology: the way of the future	Australian Institute of Physics (Victorian Branch)



# Agora Theatre: 12.30pm - 1.30pm

## Science Photography - Intermediate

### Major Bursary \$85

Tamzyn Smith	East Doncaster Secondary College	Surface tension: a botanical insight	Australian Society for Biochemistry & Molecular Biology
Amelia Barrow	Kilvington Girls' Grammar	Interference colours on soap bubble	Powercor Australia
Stephanie Moorhouse	Kilvington Girls' Grammar	Iridescence	Department of Education & Early Childhood Development

## Science Photography - Intermediate

### Minor Bursary \$65

Name	School	Title	Sponsor
Jessica Spencer	Catholic Ladies College	Project 19	Department of Education & Early Childhood Development
Sanya Mihajlovic	Kilvington Girls' Grammar	Black-breasted buzzard breaking emu egg	The Royal Society of Victoria Inc.
Maivi Nguyen	Kilvington Girls' Grammar	Milk and detergent experiment	Swinburne University of Technology
Giulia Oppedisano	Kilvington Girls' Grammar	The Venus Flytrap	Entomological Society of Victoria Inc.
Yasmine Plesar	Kilvington Girls' Grammar	Autumn leaves	Australian Society for Biochemistry & Molecular Biology
Lekha Prasad	Kilvington Girls' Grammar	Building structures	Department of Education & Early Childhood Development
Emily Peck	Presbyterian Ladies College	Born from the ashes: how fire affects biodiversity	Department of Education & Early Childhood Development

## Video Productions - Intermediate

### Major Bursary \$100

Name	School	Title	Sponsor
Will Douglas	Kew High School	Respiration and asthma	Australian Society for Biochemistry & Molecular Biology
Sakthi Ravitharan & Akansha Shubhi Kapoor	Presbyterian Ladies College	Home sweet home	Department of Education & Early Childhood Development

## Video Productions - Intermediate

### Minor Bursary \$80

Name	School	Title	Sponsor
Ariel Zohar & Daniel Goldberg	Bentleigh Secondary College	Exploronomy: an adventure through time	Rio Tinto Limited

## Science Photography - Open

### Major Bursary \$95

Name	School	Title	Sponsor
Margaret Zoides	East Doncaster Secondary College	Fire ecolog: the cycle of life	The Royal Society of Victoria Inc.

## Science Photography - Open

### Minor Bursary \$70

Name	School	Title	Sponsor
Christopher Freelance	Sacred Heart College Kyneton	The effects of plant hormones on a rose bud	Department of Education & Early Childhood Development



## Creative Writing - Junior

### Major Bursary \$70

Name	School	Title	Sponsor
Eliza McGeachin	Cheltenham Secondary College	Galaxy secondary space school	Department of Education & Early Childhood Development
Anna Tat	Cheltenham Secondary College	Exploration	Department of Education & Early Childhood Development
Carley Thomas	Cheltenham Secondary College	Space school 2100	Australian Skeptics Inc.
Alicia Chan & Stella Que	Fintona Girls School	Diary 1936	Department of Education & Early Childhood Development
Talia Le Couteur	Firbank Grammar School	Space school 2100	Powercor Australia
Sunjuri Sun	Firbank Grammar School	Seeing the outer limits of space	Rio Tinto Limited
Larissa Walsh	Firbank Grammar School	I am an astronomer	Australian Skeptics Inc.
Katherine Milburn	Methodist Ladies' College	I am an astronomer	Department of Education & Early Childhood Development
Rachel Rebecca	Methodist Ladies' College	Space school	Victorian Teachers Credit Union Ltd
Alice Yu	Methodist Ladies' College	Space school 2100	BHP Billiton
Rebecca Ho	Mount Waverley Secondary College	Seeing the outer limits of space	Swinburne University of Technology
Howard Rachel	The Geelong College	Creative writing	University of Ballarat: Science and Engineering

## Creative Writing - Junior

### Minor Bursary \$50

Name	School	Title	Sponsor
Melissa Truman	Berwick Secondary College	Space	Department of Education & Early Childhood Development
Dhanya Baby	Cheltenham Secondary College	Stowaway	Australian Skeptics Inc.
Amanda Buttress	Cheltenham Secondary College	Space school 2100	Department of Education & Early Childhood Development
Stephanie Limneos	East Doncaster Secondary College	Space school 2100	Department of Education & Early Childhood Development
Rachel Xu	Fintona Girls School	Just floating away	Department of Education & Early Childhood Development
Isabelle Brownlee	Firbank Grammar School	I am an astronomer	BHP Billiton
Louise Healy	Firbank Grammar School	Space school 2100	Department of Education & Early Childhood Development
Isabella Stafford	Firbank Grammar School	Are we made of stars?	The Royal Society of Victoria Inc.
Molly Tilbrook	Firbank Grammar School	Science without limits	Australian Skeptics Inc.
Evelyn Turek	Firbank Grammar School	We are made of stars	Swinburne University of Technology
Sarah Tossol	Galen Catholic College	Knight's of Cydonia	Catholic Education Office (Melbourne)
Ella Gibson	Korowa Anglican Girls School	We are made of stars	Department of Education & Early Childhood Development
Samuel Cole	Kurunjang Secondary College	Creative writing	University of Ballarat: Science and Engineering
Jia Yi Ong	Mentone Girls' Grammar School	Seeing the outer limits of space	Victorian Teachers Credit Union Ltd
Merrilyn McKee	Methodist Ladies' College	Spaced out	Rio Tinto Limited
Caroline Ritchie	Methodist Ladies' College	Space school 2100	Powercor Australia
Michael Mews	St Leonard's College Brighton	We are made of stars	Swinburne University of Technology
Eleanor Forwood	Strathcona Baptist Girls Grammar School	I am an astronomer: Clyde Tombaugh	Swinburne University of Technology
Laura Baxter	Tintern Girls Grammar School	We are made of stars	Australian Skeptics Inc.
Anna Church	Tintern Girls Grammar School	Seeing the outer limits of space	Powercor Australia
Amelia Wallingford	Tintern Girls Grammar School	Space school 2010	Rio Tinto Limited

# The Odeon: 12.30 - 1.30pm

## Working Models - Junior

### Major Bursary \$80

Name	School	Title	Sponsor
Dylan Stuckey	East Doncaster Secondary College	Bike powered energy	Department of Education & Early Childhood Development
Nicholas Malyaris	Mentone Grammar School	Refracting telescope	Swinburne University of Technology
Chalita Barrand	Mount Waverley Secondary College	Solar system	Department of Education & Early Childhood Development
Alaric Sanders	St Leonard's College Brighton	Lunar energy	Rio Tinto Limited
Daniel Henry	Xavier College, Burke Hall Campus	Hydraulic lifter	Catholic Education Office (Melbourne)

## Working Models - Junior

### Minor Bursary \$60

Name	School	Title	Sponsor
Siva Ganesan & Connor Murphy	Essendon Keilor College (Niddrie Campus)	The bimetallic fan	Victoria University: Health, Engineering & Science
Julia Kanapathippillai	Kilvington Girls' Grammar	Electro-city	Swinburne University of Technology
Vidura Jatunarachchi & Elliot Batiste	Mount Waverley Secondary College	The movement of the solar system	Department of Education & Early Childhood Development
Josh Vuk	Scotch College	Awesome	Department of Education & Early Childhood Development
Jason Taylor	St James College	Light travels	Catholic Education Office (Melbourne)
Nicholas Virgo	St Leonard's College Brighton	Electromagnetism	Department of Education & Early Childhood Development
Kristiane Burri & Kaiva Kaimins	Strathcona Baptist Girls Grammar School	Solar powered house	In Memory of Eileen Goodfield & Dorothy Dalton
Alex Baensch	The Geelong College	Solar system model	Victoria University: Health, Engineering & Science
Isaac Shieh & Connor Lowndes	Wesley College Middle School	Exploring the black hole	Powercor Australia
William Ross-Farrell & Luke Iacono	Xavier College, Burke Hall Campus	Electromagnetic crane	Department of Education & Early Childhood Development

## Computer Programs - Junior

### Major Bursary \$80

Name	School	Title	Sponsor
Joshua Pelchen & Jasper Milton	Christian College Geelong	Atmospheric adventures	University of Ballarat: Science and Engineering
Ben Ramcharan	East Doncaster Secondary College	Stars	Department of Education & Early Childhood Development
Li Lui & Melissa Ngu	Methodist Ladies' College	The great space rescue	Tain Electronics Pty Ltd
Andrew Godfree	Mount Waverley Secondary College	Moon quest	Swinburne University of Technology

## Computer Programs - Junior

### Minor Bursary \$60

Name	School	Title	Sponsor
Jason Fitzclarence & Braden Horley	Aquinas College	The adventures of Fred in space	Department of Education & Early Childhood Development
Emily Cerini	Methodist Ladies' College	Electricity	Department of Education & Early Childhood Development
Aimi Tran	Methodist Ladies' College	Electricity	BHP Billiton
Mackenzie Heath & Jake Hamilton	Wesley College (Glen Waverley)	The artwork of space	Australian Skeptics Inc.



## Posters Scientific Wall Charts - Junior

### Major Bursary \$70

Name	School	Title	Sponsor
Mary Aidonopoulos	Catholic Ladies College	Pluto: planet or not?	The Royal Society of Victoria Inc.
Alan Anderson	Cheltenham Secondary College	Pluto: planet or not?	Department of Education & Early Childhood Development
Sarah Beck	Firbank Grammar School	Pluto: planet or not?	Department of Education & Early Childhood Development
Hannah Frazer	Methodist Ladies' College	Space transmissions	Department of Education & Early Childhood Development
Cameron Morris	Mount Waverley Secondary College	Space junk	Department of Education & Early Childhood Development
Samantha Day & Emily Lambrick	Sacre Coeur College	Space junk	Dr Joy Bear
James Wrigley & Will Marshall	Scotch College	Space junk	BHP Billiton
Christopher Smythe	St Bedes College	Pluto: planet or not?	Department of Education & Early Childhood Development
Jordan Blum & Joseph Friedman	The King David School (Magid Campus)	Pluto: planet or not?	University of Melbourne: School of Physics

## Posters Scientific Wall Charts - Junior

### Minor Bursary \$50

Name	School	Title	Sponsor
Madelene Saltis	Avila College	Space junk	Swinburne University of Technology
Justin Fortune	Berwick Secondary College	Space junk	Australian Society for Biochemistry & Molecular Biology
Jessica Barnes	Catholic Ladies College	Pluto: planet or not?	Department of Education & Early Childhood Development
Stephanie Rosch	Catholic Ladies College	Pluto: planet or not?	Catholic Education Office (Melbourne)
Afreen Mulla & Rebecca Li	Cheltenham Secondary College	Pluto: planet or not	Department of Education & Early Childhood Development
Jaya Nair	Cheltenham Secondary College	Pluto: planet or not	Department of Education & Early Childhood Development
Liam Vu	Cheltenham Secondary College	Space junk	Department of Education & Early Childhood Development
Tiffany Dun	Doncaster Secondary College	Pluto: planet or not?	Swinburne University of Technology
Leah Heath	East Doncaster Secondary College	Pluto: planet or not	Department of Education & Early Childhood Development
Alex Bladen	Firbank Grammar School	Pluto: planet or not?	Department of Education & Early Childhood Development
Kate Duggan	Firbank Grammar School	Problems with the space shuttle	Swinburne University of Technology
Nikki Menzies-Smith	Firbank Grammar School	Pluto: planet or not?	Swinburne University of Technology
Teghan O'Connell	Firbank Grammar School	Pluto: planet or not?	Department of Education & Early Childhood Development
Yasmin Shvarts	Firbank Grammar School	Space junk	Swinburne University of Technology
Serena Carter & Daisy Grumley	Gippsland Grammar	Space waste	Swinburne University of Technology
Sarah Trett	Gippsland Grammar	Space transmissions	Department of Education & Early Childhood Development
Nisha Arasu	Methodist Ladies' College	Space junk	Powercor Australia
Hollie Curtis	Methodist Ladies' College	Space junk	Department of Education & Early Childhood Development

# The Odeon: 12.30 - 1.30pm

## Posters Scientific Wall Charts - Junior *(continued)*

### Minor Bursary \$50

Name	School	Title	Sponsor
Liz Tower & Mille Oates	Methodist Ladies' College	Pluto planet or not	Swinburne University of Technology
Kaveesh Jayasinhe	Mount Waverley Secondary College	Is Pluto a planet or not?	Swinburne University of Technology
Victoria Leigh & Amy Chew	Sacre Coeur College	The space dump	Department of Education & Early Childhood Development
Jessica Soares & Bridie Brittain	Sacre Coeur College	Space transmissions	Science and Mathematics Education & ICT Education
Duncan Gibson	St Leonard's College Brighton	Space junk	Department of Education & Early Childhood Development
Hasnat Siddiqui	Sunbury Downs Secondary College	Space junk	Department of Education & Early Childhood Development
Genevieve Brott & Elie Loummer	The King David School (Magid Campus)	Space junk	Department of Education & Early Childhood Development

## Creative Writing - Intermediate

### Major Bursary \$85

Name	School	Title	Sponsor
Lauren Shearman	Girton Grammar School	I am an astronomer	Victoria University: Health, Engineering & Science
Trushna Trivedi	Heathdale Christian College	Seeing the outer limits of space	Victoria University: Health, Engineering & Science

## Creative Writing - Intermediate

### Minor Bursary \$65

Name	School	Title	Sponsor
Charbel El-Kaissi	Antonine College (Trinity)	We are made of stars	Catholic Education Office (Melbourne)
Jasmine Jeon	Balwyn High School	Somewhere in a galaxy, far, far away	Department of Education & Early Childhood Development
Jack Barrille	Cheltenham Secondary College	Seeing the outer limits of space	Australian Skeptics Inc.
Ross Pirrone	Cheltenham Secondary College	Space school 2100	Department of Education & Early Childhood Development
Emylee Ephraums	Heathdale Christian College	I am an astronomer	Victoria University: Health, Engineering & Science
Shahzad Billimoria	Kingswood College	I am an astronomer	Swinburne University of Technology
Teresa Tran & Erin Crosbie	Maribyrnong Secondary College	When things go BOOM in the night!	Victoria University: Health, Engineering & Science
Tamsin Gordon	McKinnon Secondary College	I am an astronomer	Department of Education & Early Childhood Development
Ben Holding	McKinnon Secondary College	I am an astronomer	Rio Tinto Limited
Lachlan Macfarlane	McKinnon Secondary College	We are made of stars	Powercor Australia
Josephine Davies	Presbyterian Ladies College	Science is wonder	Department of Education & Early Childhood Development
Alexandra Mackie	Presbyterian Ladies College	Seeing the outer limits of space	Swinburne University of Technology
Whitney McIntosh	Presbyterian Ladies College	We are made of stars	Australian Skeptics Inc.
Megan Tepper	Presbyterian Ladies College	Space school 2100	The Royal Society of Victoria Inc.
Shehara Aponso	Sacred Heart Girls College	We are made of stars	Catholic Education Office (Melbourne)
Jason Ha	Scotch College	Space: visions of infinity	Department of Education & Early Childhood Development
Richard Parker	Wheelers Hill Secondary College	I am an astronomer	Australian Skeptics Inc.



## Working Models - Intermediate

### Major Bursary \$100

Name	School	Title	Sponsor
Frank Bird	Kingswood College	My heater model	Australian Institute of Energy

## Working Models - Intermediate

### Minor Bursary \$80

Name	School	Title	Sponsor
John Wilbraham	Heathdale Christian College	Direct downwind faster than the wind	Victoria University: Health, Engineering & Science
Nikolas Malovinovic	Kew High School	Planetary formation using nebula theory	Department of Education & Early Childhood Development
Alex Napolitano & Vahagn Sargsyan	Kew High School	Wind turbine	Swinburne University of Technology
Miranda Zhang	Presbyterian Ladies College	Light, time and black holes	Australian Skeptics Inc.

## Computer Programs - Intermediate

### Major Bursary \$100

Name	School	Title	Sponsor
Vanette Tran	Bentleigh Secondary College	Touring our solar system	Tain Electronics Pty Ltd

## Computer Programs - Intermediate

### Minor Bursary \$80

Name	School	Title	Sponsor
Alice Foot	Methodist Ladies' College	D.I.Y. universe	Department of Education & Early Childhood Development

## Posters & Scientific Wall Charts - Intermediate

### Major Bursary \$85

Name	School	Title	Sponsor
Kaan Doluner	Kurunjang Secondary College	Space transmissions	Department of Education & Early Childhood Development
Jasmine Li & Louise Roberts	Presbyterian Ladies College	Problems with the space shuttle Challenger	Swinburne University of Technology
Aggela Nerouppos	Presbyterian Ladies College	Space junk	Department of Education & Early Childhood Development

## Posters & Scientific Wall Charts - Intermediate

### Minor Bursary \$65

Name	School	Title	Sponsor
Alex Norrish	Aquinas College	Space shuttle problems	Department of Education & Early Childhood Development
Nathan Way	Caulfield Grammar School (Caulfield Campus)	What goes up must come down.	Swinburne University of Technology
Kate Sizer	Cheltenham Secondary College	Space junk	Department of Education & Early Childhood Development
James Spring	Kew High School	Pluto: planet or not?	Department of Education & Early Childhood Development
Siobhan Lane	Presbyterian Ladies College	Reflecting ray telescopes over time	Department of Education & Early Childhood Development
Phoebe Lin & Kathy Liu	Presbyterian Ladies College	Pluto: planet or not?	Australian Society for Biochemistry & Molecular Biology
Georgia Gunning & Simratjit Kaur	Werribee Secondary College	Rockets and orbiting	Swinburne University of Technology

# The Odeon: 12.30 - 1.30pm

## Working Models - Open

### Major Bursary \$110

Name	School	Title	Sponsor
William O'Connell & Jake Hanson	Wodonga Senior Secondary College	Shifting light	Australian Skeptics Inc.

## Working Models - Open

### Minor Bursary \$85

Name	School	Title	Sponsor
Daniel Bollen & Petra Haarmann	Wodonga Senior Secondary College	Daniel & Petra's exciting gravity project	Australian Skeptics Inc.
Jayden Castillo & James Roth	Wodonga Senior Secondary College	Shedding light on deep space	Swinburne University of Technology
James Konig & Callum Watson	Wodonga Senior Secondary College	Nuclear radiation model	Department of Education & Early Childhood Development



## Energising Science and Mathematics Education Strategy

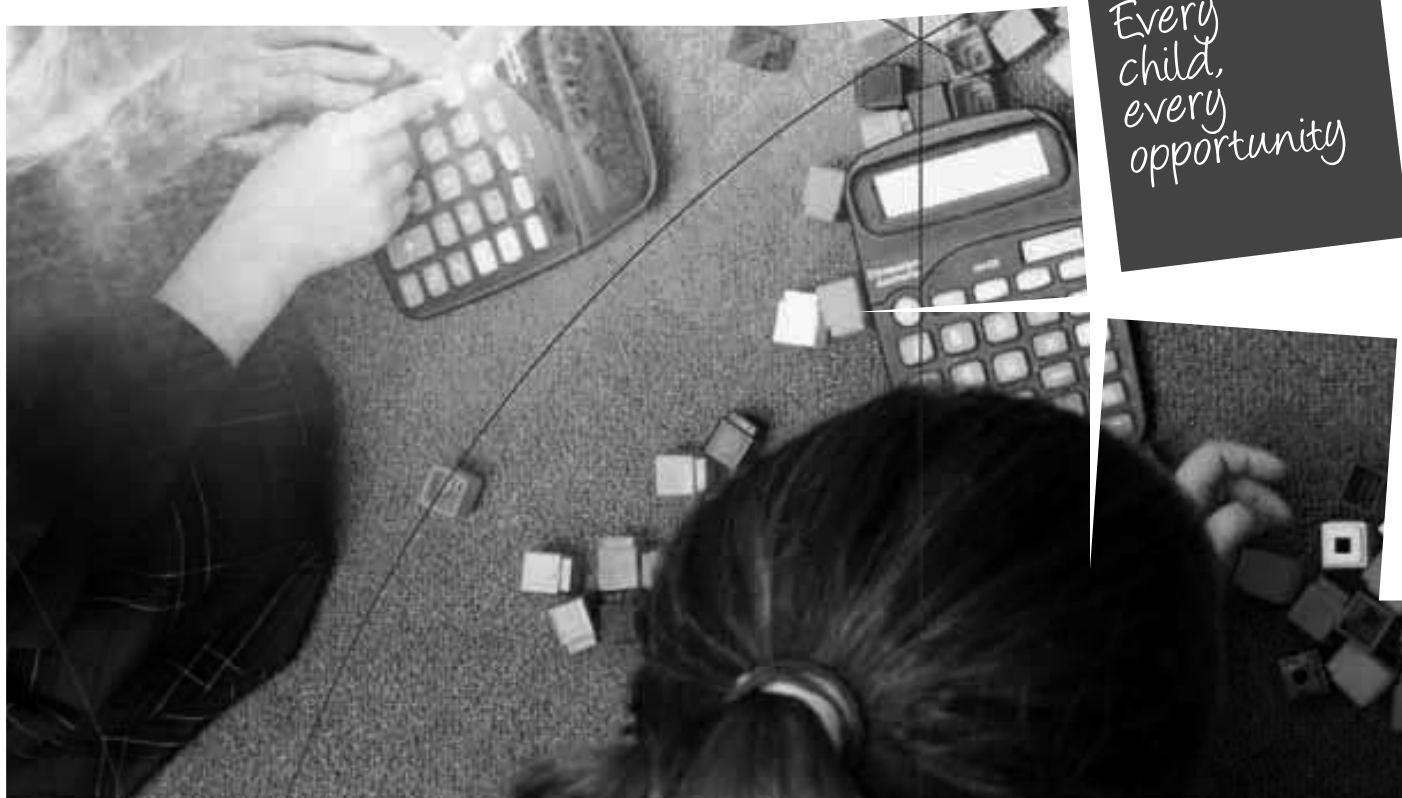
The Energising Science and Mathematics Education Strategy, released in August 2009, aims to attract more Victorian students to science and mathematics, engaging and maintaining their interest through a range of forward looking initiatives.

The Strategy is based on the premise that a sound grasp of science and mathematics among our young people is fundamental to Victoria's globalised environment. Energising Science and Mathematics Education will support new partnerships between schools and a range of industry, tertiary educators, government and communication organisations to provide rich and engaging experiences for young people and help them connect their school experiences with the world. The science and mathematics communities have considerable resources and expertise.

Strategic partnerships – key to the Strategy are building business, industry and tertiary education sector partnerships.

This enables student engagement with industry and the wider community, which will increase young people's connections with the science community. The Victorian Government currently has a number of long term partnerships with innovative companies and will continue to support partnerships and initiatives which will enable students to make links with business, industry and the tertiary sector and expose them to the broader science world.

For further information about the Strategy see [www.education.vic.gov.au/about/news/newsalerts/2009/mathsandsciencestrat.htm](http://www.education.vic.gov.au/about/news/newsalerts/2009/mathsandsciencestrat.htm)



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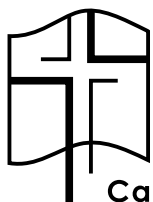
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For further information about the Society, please contact  
Dr Christine Hawkins

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LaTrobe University, Bundoora, 3086 Victoria  
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Peter Craig	Mt Waverley Secondary College
Viv Eckersley	Aitken College
Leonie Lang	Retired science teacher
Miranda McKellar	Hoppers Crossing Secondary College

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Suzanne O'Shannessy	STAV Executive Officer
Anne Heard	STAV Receptionist
Kerry Gledhill	STAV Accounts
Kellie Jackson	STAV Desktop Publisher

### Committee members needed for 2010

The STS committee urgently needs new members for 2010. Without this volunteer committee the competition cannot operate. There are many benefits to be gained by joining the committee - you will be helping ensure STS continues to run, you will be making an active contribution to your profession, you will gain insight into how the competition operates and you will gain personal satisfaction from working with a group of dedicated science professionals.

For more information about the STS committee go to [www.sciencevictoria.com.au/sts/stscommittee](http://www.sciencevictoria.com.au/sts/stscommittee) or contact STAV: [stav@stav.vic.edu.au](mailto:stav@stav.vic.edu.au); phone 9385 3999

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<b>Bellarine Secondary College, Drysdale Campus</b>	Senem Shamsili
<b>Bentleigh Secondary College</b>	Yvonne Sirianos
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<b>Camelot Rise Primary School</b>	Jacqui Brooks
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<b>Carey Baptist Grammar School Kew</b>	Louise Sayar Mark Smith
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<b>Cheltenham Secondary College</b>	Michael Corcoran Mark McTier Christine Ray
<b>Christian College Bellarine</b>	Debra Singleton
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<b>Deepdene Primary School</b>	Mandy Graham
<b>Deakin University</b>	Mietta Embury Cassandra Roberts
<b>Doncaster Gardens Primary School</b>	Janine Chung Kim MacNeil
<b>Doncaster Secondary College</b>	Tina Kotsiomitis Vicky Sapardanis
<b>East Doncaster Secondary College</b>	Geoff Flowers Bernie Kennedy Sally Polidano Richard Poulton
<b>Eltham East Primary School</b>	Susan Drummond Jan Halkin
<b>Elwood College</b>	Christine Ireland
<b>Erasmus School</b>	Moya Garde
<b>Essendon Keilor College - Niddrie Campus</b>	Rachel Eyers Kathryn Muir
<b>Essendon North Primary School</b>	Dilani Wijeratne
<b>Essex Heights Primary School</b>	Lauren Braithwaite
<b>Fintona Girls School</b>	Lisa Broben Trish Leigh Christa Ackermann Tim Hurst
<b>Firbank Grammar School</b>	Gail Fraser Kerry Slater
<b>Firbank Grammar School - Sandringham House</b>	Brooke Clayton Beth Watson
<b>Firbank Grammar School - Turner House</b>	Beth Watson
<b>Fitzroy North Primary School</b>	Kristen Swenson
<b>Flinders Christian Community College (Carrum Downs)</b>	Duncan Neil
<b>Frankston High School</b>	Robert Valerio
<b>Galen Catholic College</b>	Lauren Lee
<b>Genazzano F C J College</b>	Marita O'Shea Kristina Stooke
<b>Gippsland Grammar</b>	Steve Anderson
<b>Gisborne Secondary College</b>	Janet Di Pilla
<b>Girton Grammar School</b>	Elizabeth Brown Kimberley Cresp Jane Reaburn
<b>Glen Waverley Primary School</b>	Micahel Jenkins Heather Woods
<b>Glendal Primary School</b>	Emma Bolton Robyn Cullen Christine Gilligan Julie Hse
<b>Great Ryrie Primary School</b>	Maureen Frith
<b>Heathdale Christian College</b>	Jim Talliopoulos
<b>Hume Central Secondary College - Town Park</b>	Suellen McGlashan John Trayanovski
<b>Huntingtower School</b>	Susan Tawia
<b>Ivanhoe Grammar School</b>	Jackie Handley

<b>Ivanhoe Grammar School - Plenty Campus</b>	Michael Heenan
<b>Kew High School</b>	Di Keage Lorna McKellar
<b>Kilvington Girls' Grammar</b>	Jenny Hedger Fran Le Cornu Jennifer Bardsley Vicki Gale Alison Kershaw
<b>Kingswood College</b>	Iain Murphy
<b>Korowa Anglican Girls School</b>	Louisa O'Brien
<b>Kurunjang Secondary College</b>	John Gerohristodoulou
<b>Lauriston Girls School</b>	Celeste McMillan Chris Toms
<b>Lilydale High School</b>	Jodie Street
<b>Loreto Mandeville Hall</b>	Katrina Mount
<b>Lyndale Primary School</b>	Karen Hall Judith Sise
<b>Lyndale Secondary College</b>	Sue Petousis
<b>Maharishi School</b>	Raja Ashton
<b>Marian College - Myrtleford Campus</b>	Geoff Willing
<b>Maribyrnong Secondary College</b>	Manny Cassiotis Sebastian Douglas-Dowd
<b>McKinnon Secondary College</b>	Harriet Barrow Rita Vanderwolde
<b>Melbourne Girls Grammar - Merton Hall</b>	Megan Lee
<b>Mentone Girls' Grammar Secondary School</b>	Lyn Venner
<b>Mentone Grammar School</b>	Leigh Chislet Leonie Redfern
<b>Methodist Ladies College</b>	Alistair Webster Cassie Blainey Tom Curtis Connie Handrinos Vera Hudson Mark Rickard David Skelt Kylie Warner
<b>Mount Eliza Secondary College</b>	Robert Benson
<b>Mount Waverley Secondary College</b>	Rae Merrigan Greg Durkin Emmy Malfroy Mary Petridis
<b>Mt Eliza Primary School</b>	Jeffrey Dirago Victoria Dirago David Keystone
<b>Our Holy Redeemer School</b>	Annemiek Waters
<b>Our Lady Of Sion College</b>	Victoria Stats
<b>Overnewton Anglican</b>	Andrew Bawden

# STS Judges 2009



<b>Community College</b>	Michelle Bonvino Lyndal Mihic
<b>Presbyterian Ladies College</b>	Jennie Maxwell Alison Steele Russell Downie Sue O'Brien
<b>Roberts McCubbin Primary School</b>	Raelene Aleandro
<b>Rosanna Golf Links Primary School</b>	Debbie Tully
<b>Ruyton Girls' School</b>	Cathy Smibert Tanya Cockwill Kris Freebairn Nicole Volkmann
<b>Sacre Coeur</b>	Kelly McInnes
<b>Sacred Heart College - Kyneton</b>	Anita Carach-Holm Chris Nielsen
<b>Sacred Heart Girls College</b>	Adam Santilli
<b>Scotch College</b>	Anthony Tasca Julian Collins John Jackowski Dean Russell
<b>Serpell Primary School</b>	Rhys Coulson Kris Sais Troy Taylor
<b>Shelford Girls Grammar School</b>	Candice Skinner Jacqueline Sidaway
<b>Solway Primary School</b>	Karina Bartlett Jenny Hudson Catherine Padey
<b>Southmoor Primary School</b>	Jen Cole
<b>Southwood Boys Grammar School</b>	Anthea Watkins
<b>St Bedes College</b>	Ewa Biviano
<b>St Catherine's School</b>	Sue Cooke Owen Hughes
<b>St James College</b>	Sally Robertson
<b>St Joseph's Primary School - Northcote</b>	Catherine Delahunt Donna McCartney
<b>St Joseph's School</b>	Chris Fleming Marta Wakeling
<b>St Josephs College Geelong</b>	Kamil Gomularz
<b>St Josephs College Mildura</b>	John McGlashan
<b>St Jude's School</b>	Robin Marceau
<b>St Kevin's College</b>	Adam Bylsma Darren Cook Shane Schottner John Smyth
<b>St Leonard's College Brighton</b>	Jane Britten Justine Werba
<b>St Leonard's College Cornish Campus</b>	Anne Beruldsen Jackie O'Brien
<b>St Paul's Grammar School Warragul</b>	Coralie Esbert
<b>St Thomas The Apostle Primary School</b>	Miranda Armstrong Kirstie Gibson
<b>Staughton College</b>	Ruth Hasan

<b>Strathcona Baptist Girls Grammar School</b>	Ian McDonald Sandra Pinto Julie Plymin-Strathcona
<b>Sunbury Downs Secondary College</b>	Anina Alexander Andrew Blackbourne Daniel Inwood
<b>The Geelong College</b>	Kirsten Van Cleef
<b>The King David School - Magid Campus</b>	Yogam Laird Russell Newman
<b>Tintern Girls Grammar School</b>	Diane Grochowska Suzanne Jack
<b>Toorak Primary School</b>	Ray McMaster
<b>Traralgon College - East Campus</b>	Michelle De Boer
<b>Tucker Road Primary - Bentleigh</b>	James Borghero June Gaffney
<b>University of Melbourne</b>	Justine Secara Danijel Banovic Ana Konstantinovic Sakina Raza Andrew Diaz Pozo Patrick Sanders Emily Rochette Hannah Bornsztejn Hanni Alston Amanda Winkworth Jose Rault Martin Jellinek Lauren Donnell Maureen Frith Darren Zilm Rian Labrooy Vita Cottone Zac Watts Lauren Kelly Tara Kovac Clinton Hale Rita Krouskos Kate Mulcahy
<b>Vermont Primary School</b>	James Sadler
<b>Wantirna Secondary College</b>	James Anderson Felix Chiczewski Khairil Latiff John Widmer
<b>Werribee Secondary College</b>	Astra Kirsanov David Lu
<b>Wesley College</b>	Christine Ansorge Mori Jacobson Russell Welsh Oliver Thomas
<b>Wodonga Senior Secondary College</b>	Michael Barnard
<b>Wooranna Park Primary School</b>	Anne Gordon Stuart Hanmer Dianne Scott
<b>Xavier College, Burke Hall Campus</b>	Anne Harris
<b>Other volunteers</b>	Stephen Hawking Pam Robertson Janice Youl

# STS Co-ordinator Reports

## **Creative Writing Picture Story Book – Lower Primary and Primary**

### **Section coordinator: Judith Sise, Lyndale Primary School**

I had some reservations on this year's theme Astronomy: Science Without Limits as it seemed a philosophically complex topic for primary school students. However, I was delighted with the genre range and knowledge depth students used in their picture story books.

While two topics Starry, Starry Night and We Have Left Our Solar System Behind, obviously appealed to many students, the other topics, 'The Colours of Space' and 'How Different Life Would be if we had no Moon' prompted some fascinating stories and illustrations from the young writers.

Students used a wide variety of artistic techniques to enhance their stories. There were collages, computer generated drawings and a wide range of drawings utilising chalks, pastels and paint. A few students are still infringing on the thickness criteria by producing books with laminated pages or thick cardboard pages. While these strategies produce stronger books, they are really outside the thickness criteria and pose a considerable problem for posting to the judges.

Unfortunately, there are still some students who do not read the criteria carefully and write too many words or forget to include the scientific statements and references, or choose to write on their own topic. It is important to follow the guidelines.

There were many outstanding stories from both Lower Primary and Primary sections which were widely researched, scientifically complex and beautifully presented and I hope these young writers will enter in 2010.

The majority of the judges did a wonderful job, marking and returning books promptly and many wrote how wonderful the stories were and how impressively students integrated the science into illustrations and how much they enjoyed reading the entries.

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## **Video Productions – all divisions**

### **Section coordinators: Barbara Murphy, Nazareth College, Adrian Cameron, Hoppers Crossing Secondary College.**

Being part of the Video section of STS was an exciting and rewarding experience. This year we have received approximately 150 entries and the quality of the entries was very good and impressed the judges. Student videos were presented on a range of different and very interesting scientific topics – from Newton's Laws and travel to the Moon, possible effects of Earth standing still, how telescopes are built and so many other interesting choices.

It was great to see so many entries by the students who are interested in science. Judges were impressed by the originality of the videos and the outstanding video production techniques demonstrated. Interviews with students demonstrated that they had gone to a lot of effort to make their videos interesting, informative, well produced and most importantly, they had an excellent knowledge of the scientific concepts behind their videos. In future, students are encouraged to read the criteria carefully and make sure their video includes everything that is required.

Thank you to all the judges who did a wonderful job by donating their time and providing valuable feedback to all the students. Thank you to all the teachers and parents for their ongoing support and encouragement of all science students. Finally, thank you to all the students for their entries and attendance on judging day to discuss their videos.

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## **Experimental Research – Junior**

### **Section coordinators: Josie Crisara, Aitken College and Anne Marie Williams, Methodist Ladies' College**

This year we received approximately 160 junior experimental research projects. The standard of the bursary winning entries was very good. Some examples of topics that were interesting and researched creatively included ones that attempted to solve a problem such as:

Where can I get the best sound?

Newtonian Laws of Cooling

The most water efficient roofing.

Students should remember that in their experimental design they need to carefully think about the hypothesis they are testing, control of variables and that accurate and comprehensive measurements are used to collect results. In particular, experiments should be repeated to ensure accuracy and consistency in data being collected.

Students in general presented results using tables, graphs and photographs/drawings where appropriate. However, the discussion of these results required further development. There needs to be a detailed analysis of the results including their implications and validity as well as a link back to the hypothesis. It was useful if the student researched the topic, defined key terms and linked this research to their discussion of results.

Please encourage students to be involved in the real work of the scientist, which is research. Encouraging students to think about areas of interest and hence science and technology related problems is a good way to get started. Brainstorming in class is a useful tool to get lots of ideas, which can be further explored by students.



## Experimental Research – Intermediate and Open

### Section coordinators: Charles Tivendale, Victorian Skeptics and Miranda McKellar, Hoppers Crossing Secondary College

Entry numbers were a little down on last year's, but there were some excellent entries. Many students discovered that modifying a standard experiment produced interesting, often unexpected results.

Frequently, ideas from the web were used, and the entrants who impressed the judges most were those who devised their own, or modified or added a bit extra to an experiment they found on the web. One or two entries this year which initially were awarded high marks were downgraded when a search found an identical experiment and results on the web.

Judges look at how students can adopt a scientific way of operating. This is what gets acknowledgement and bursaries, not the ability to follow a cookbook!

Suggestions in last year's report seem to have been noted; nearly all folders were manila type; distracting fonts, backgrounds and cute pictures were minimal; results were quoted to an appropriate number of significant figures. But there were still some titles which gave no clue as to the nature of the experiment. 'What you need to know!' as a title conveys nothing to the reader.

Some reports had extensive data sets or tables, but graphs showing interesting aspects of the data would have conveyed relevant information faster to the reader. Graphs should have a title, labelled axes, and maybe a legend if there are two or more lines on the graph. Points lying well away from the graph need comment and should not be discarded without good reason.

The 'Method' should report what the student actually did, not what someone else who is trying to duplicate the experiment should do. In science, it is often the mistakes made which lead to a new and better understanding of the world; but only if the experimenter (student) thinks critically about unexpected results. Taking extra measurements, repeating the experiment (maybe many times), and altering a variable (say lighting or temperature) which was thought to have no effect are some ways that systematic and random errors can be identified and allowed for.

Some students think that a hypothesis disproved means the report has no value. All data – whether confirming or disproving our assumptions and beliefs – adds to our collective store of scientific knowledge. It is important to record 'failures', because much can be gained by analysing the unexpected.

To be valid, conclusions must be supported by the experimental data. While inferences can be made regarding the possible cause of unexpected outcomes, this belongs in the discussion, not the conclusion.

Some students assisted judges by putting each of the discussion prompts (eg. 'Did your results support...') just before their own comments. Although never seen in 'real' science reports, this style made it easier for judges to verify the student's attention to the requirements.

The CSIRO Journal of Soil Research guidelines for scientific reports at <http://tinyurl.com/6jot3t> are worth studying. Unless these guidelines are followed, the paper will not be published in their journal, and must be corrected before resubmission. Some (abbreviated) guidelines are:

- The title should be concise and appropriately informative.
- The abstract (preferably less than 200 words) should state concisely the scope of the work and give the principal findings.
- Sufficient experimental detail should be given to enable the work to be repeated.
- The discussion should explain the significance of the results.

## Games – all divisions

### Section coordinator: Leonie Lang

Astronomy is a favourite topic with science students. Combine this with the fun of playing a game and science teachers had a successful formula for an STS project. At the Judging Day at Wesley College, more than 200 students enjoyed setting up their games and playing them with the science teachers who were the judges. The judges used a rubric which closely followed the guidelines listed in the Science Talent Search Handbook.

The best entries were those that not only contained good science, but showed evidence that research was used to develop the game around finding solutions to real issues. While not all of the topics were based on astronomy, many students were fascinated by space exploration and the wonders of the universe. Tasks that promoted problem solving were highly regarded whereas 'luck' squares in board games and recall of trivial facts did not score well. Overall, the judges were very impressed with the creativity shown by students to produce eye-catching and innovative games which were original and fun to play.

All this was made possible by the generosity of many science teachers who encouraged their students to enter the Science Talent Search, guided their research of the science ideas and inspired them to express their creativity in many different ways. Many of these teachers also gave hours of their free time to judge the entries. We thank the parents for supporting their sons and daughters in preparing their entries, bringing them to the venue and sharing with them the experiences of the day.

We also thank the students who put so much work into completing their entries and brought them to be judged. They have achieved much learning about science and shared their learning with the players of the games and with the judges.

# STS Co-ordinator Reports

## Posters/Scientific Wall charts – Junior and Intermediate

### Section coordinator: Diana Veremciukas, Cheltenham Secondary College

A successful setting-up afternoon on Friday the 7th of August and judging day on the 8th of August once again was only possible due to the tremendous assistance received from Methodist Ladies' College staff and students. Also, thanks to the forty-five volunteer teacher and student-teacher judges.

I had some concerns with entries this year: some secondary students submitted posters which included Primary topics and thus eliminated themselves from receiving bursaries. The STS handbook clearly identifies Junior as year 7 and 8, and Intermediate as year 9 and 10. Fortunately, most teachers directed students to the correct poster topics. Also, some student names and poster topics were not entered on the STAV database by school coordinators by the due date.

One hundred and eighteen Junior entries were received. Nine won major bursaries, 24 won minor bursaries and 48 were awarded merit certificates. Twenty-six Intermediate entries were received which was double last year's entries. Three won major bursaries, 7 won minor bursaries and two were awarded merit certificates.

Favourite topics for entrants were:

'Pluto – planet or not?' – 50%. Posters included data on criteria for a planet classification, criteria for a dwarf planet classification, the Kuiper Belt, Trans-Neptunian object, types of orbital paths, Pluto's tilt, mass, volume and gravity, Solar System, Pluto's structure, moons and its discovery.

'Space junk' – 28%. Posters included data on Gravitation attraction, Geosynchronous orbit, Elimination using a laser broom or beam and aerogel, protective shields, meteors and craters, where it falls, meteoroids and asteroids, types of Space junk, orbital debris, its speed and risks, countries responsible, the Kessler Syndrome, tracking using radar and optical detectors.

'Problems with the space shuttle' – 12%. Posters included data on cost, disasters- Challenger and Columbia, design difficulties, O rings, liquid hydrogen tanks, escape systems, aerodynamic forces, flight risk management, adverse weather, space debris, shuttle structure, launch, re-entry and landing.

'Space transmissions' – 10%. Posters included data on the Hubble telescope, optical telescopes, radio waves, microwaves, optical fibres, satellites-weather, mobile phone, radar and TV, space probes, Mars Rover, search for extraterrestrial intelligence, binary code, radio telescopes and satellite dishes.

A reminder to all students – if you access the web for your poster research, you must include the sites used and the date(s) when accessed in your bibliography.

Congratulations to all who participated in or helped students with the Science Talent Search poster section this year. I look forward to seeing what students produce in 2010.

## Computer Programs: Games and simulations – all divisions

### Section coordinators: Mee Ing Ong, Nazareth College and Lynette Lew, Balwyn High School

Saturday 8th August was a day to remember by everyone. Students were eager to talk about their project, in terms of the level of interaction, presentation and application of scientific content. Many hours of effort were spent on creating fun and interesting games.

Judges awarded the major and minor prizes to students who adhered closely to the guidelines. Notably, some students were able to showcase their advanced skills in a computer language such as C sharp or Visual Basic or use software such as Game Maker. Students who missed out on an award did not submit a flow chart or provide references or documentation.

There was a significant decrease in the number of entries in this section this year. Most participants were entered in the Lower and Upper Primary and Junior divisions with very few entries in the Intermediate division and no students entered in the Senior School division.

Finally, to the science staff of Methodist Ladies' College, thank you again for your continuing support and assistance prior to and on Judging Day. Thank you to all judges for their time, dedication and work.

For all participants we hope it was an enriching experience for you. We hope to see you and your friends on judging day 2010, to demonstrate your computer program or simulation.

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## Posters – Lower Primary and Primary

### Section coordinator: Ann Pisarevsky

Congratulations to the students who made the effort to compete in the poster section of the Science Talent Search.

This year 216 posters were entered with 128 from upper primary and 88 from the lower primary. Of those students who entered in the lower primary section eight received a mayor bursary and twelve received a minor bursary. In upper primary twelve received a mayor bursary and seventeen received minors.

Students were asked to address one of the topics given – how different life would be if we had no moon, what do we see in the night sky, machines and space and changes in stars. The judges felt that most posters were well set out and presented a good understanding of the scientific content relating to the topic; they were impressed by the enthusiasm of the students and their understanding of the concepts presented on their posters.

Many thanks, to the judges, who gave up their Saturday morning to be involved in the judging.

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## Creative Writing – Intermediate

### Section coordinator: Lynden Fielding, Edenhope Secondary College

The overall standard of Intermediate Creative Writing entries was very pleasing in 2009, and nearly all entries were able to gain a Merit Certificate, if they did not achieve a Major or Minor Bursary. Major Bursary winning entries were exceptionally good. They were outstanding in their high level of originality and creativity, and their authors successfully worked science information into their storyline. Two Major Bursaries of \$85 and seventeen Minor Bursaries of \$65 were awarded. Lauren Shearman's Major Bursary winning entry – I am an astronomer was an imaginative and well written story about the discoveries of Maria Mitchell. Trushna Trivedi integrated relevant scientific ideas into her intriguing storyline to gain the second Major Bursary for her entry – Seeing the outer limits of space.

This year forty-two entries were received from students at twenty schools across Victoria, and a judging panel of six teachers assessed the entries. The most popular of the four topics were I am an astronomer and Seeing the outer limits of space. Space school 2100 wasn't far behind in student choice. The least popular topic was We are made of stars; however, it was this topic that produced some of the most original and creative writing, and highest level of relevant science content.

The judging criteria for Bibliography format was generally met better than in 2008. However, there were still a number of entries that did not completely list web resources. Most entrants listed the name of the article/source, the URL address and the date accessed, but not all entrants listed the time they accessed the particular web site. It's important that entrants are familiar with the 'How to cite References and write a Bibliography' page in the STS Handbook, as well as the Creative Writing student guidelines.

Most entries were well presented, with careful attention to spelling, grammar and word length, and the listing of five key science ideas or terms in an appendix. I would encourage all future entrants to go through the process of checking their entry by ticking off the boxes on the guidelines page, in preparation for ticking the box on their entry cover sheet, which states that their entry fulfils all conditions of the handbook. Several entries had cover sheets that were not signed by the student's teacher. Entries gaining an Acknowledgement Certificate and No Bursary or Credit Certificate commonly did not provide appropriate scientific content, an appendix with five key scientific ideas and/or a bibliography.

The judges enjoyed fascinating and enthralling reads and their judging task was not an easy one, amidst so much inventive writing and accurately presented science content. Thank you to all the entrants and the judges in the Creative Writing – Intermediate section for your time and effort – well done all!

## Class Project – Lower Primary and Primary

### Section coordinator: Sarah Shatford, Aitken College

Congratulations to all the entrants in this section as well as the teachers who assisted the students in their questions and discoveries. It has been pleasing this year to again see so many 'first timers' enter into Class Project. The standard across both Lower Primary and Primary continues to improve each year and the topics that were explored covered all areas of science.

This year has continued to see an increase in the number of schools that put entries into the Class Project section. As the Class Project allows all of the students within a class group to be involved, more students within a whole school community can participate in STS. With the 17 entries in this year's Class Project, approximately 300 students have had the opportunity to be involved.

In this section it is also easy to link the project into all areas of the curriculum and it fits well into VELs. Topics are not limited to just the year's theme so a project can easily fit into a class' integrated topic. Through the criteria of the class project students are introduced to many different skills areas within science and this can then be a starting point for them to try group or individual projects in following years.

Well done again to all involved this year. I look forward to seeing more fantastic science next year.

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## Science Photography – all divisions

### Section coordinators: Viv Eckersley, Aitken College, Aroia Barone-Nugent, Santa Maria College and Annette Atkinson

The photography entries in 2009 showed creativity and a deep understanding of the different scientific ideas and concepts through fantastic visual imagery. Students presented the judges with a wide variety of topics and demonstrated a high level of photography skills in the quality of the images. This year, the guidelines were met well and the photos were presented on separate cards as required. Some students didn't have their original photos printed on a separate A4 sheet which every student needs to do, even if they haven't made any adjustments to them.

Students need to ensure that they are using the photographs to demonstrate a scientific concept or process, and their written report needs to explain the process while relating that information to their images. Sometimes photographs of an experiment completed in the classroom are not suitable if it doesn't fulfill these criteria. It is also important that teachers ensure that students are well informed about the guidelines and criteria.

I would like to thank the students for their wonderful work and the parents and staff who have supported them through the judging process. Thank you to the judges who contributed their valuable time and expertise on Judging Day. Also, thank you to Eroia and Annette for their hard work organising the venue.