

GATEWAYS FESTIVALS

G.A.T.E.WAYS has pleasure in inviting gifted and talented
Year 5 and 6 children to a 'FESTIVAL OF WORKSHOPS'

at Waverley College, Birrell Street, Waverley

MONDAY 9th DECEMBER & TUESDAY 10th DECEMBER

PROG	Monday 9 th December 2019	PROG	Tuesday 10 th December 2019
1	Flying to the Rescue! (T)(M)	1	Joyride Around the Universe! (M)(P)
2	Shhhh!! (A)	2	Mission Impossible! (H)(A)(L)
3	Mysteries of Metaphysical Masterpieces (L)(A)	3	Will's Wit Kit: Shakespeare for Sharp Minds and Sharp Tongues (A)(L)
4	The Mysterious Illness of Langadell (S)	4	A Day in the Life of Professor Curieux's Lab Assistant (S)
5	Neuro-Rescue! (S)		

(A) Arts: Creative or Performing (T) Technology (S) Science (M) Maths (L) Language and Literature (P) Problem-solving (H) History

Please choose one program only each day.

The fee is \$109 per day.

Please bring a notebook and a well-stocked pencil case with a grey lead pencil, coloured pencils, a capsule sharpener, ruler, bright textas, scissors and glue.

Please also bring along any additional materials listed for your program.

Enrolment Procedure:

1. Go the G.A.T.E.WAYS website www.gateways.edu.au and follow the links to 'Parent Enrolled Programs' on the Home Page. Select 'Festivals'.
2. Click 'Enrol' next to Existing Account Holder OR 'Register' next to New Account. Please do not create a new account if your child has attended G.A.T.E.WAYS in the past.
3. Complete fields then click 'Continue to Program Selection'.
4. Check the box under 'Select' for the festival required, then 'Continue to Unit Selection'.
5. Select 'Enrol' for the days required. Only programs with availability can be selected.
6. Select a program and then 'Continue to Home Address'. Complete all fields and proceed to payment page.
7. If you require assistance please phone G.A.T.E.WAYS on 02 9940 0303

Enrolments open Monday 21st October

Year 5 and 6 Festival Workshops

FLYING TO THE RESCUE!

WITH KATRINA SIMS

After several spot fires in your surrounding native bush, the local voluntary native animal rescue organisation needs to use their specially equipped drone to search for animals injured in the fires. As assistant volunteers, your team's task is to write the directions to be programmed into the organisation's drone, enabling it to fly at the right height and route in its search. You have been given a map of the area showing the ground burnt by the fires and close-up photos of the trees at different heights to assist with your plans. Applying trigonometry and coordinate geometry, your team will use this information to calculate the route for the drone. In true G.A.T.E.WAYS style though, there will be the occasional red herring to try and block your path! This workshop will end with each team demonstrating their path programmed into a robot.

SHHHH!!

WITH ANNA JAHJAH

Do you know who won an Oscar for Best Movie in 2012? A silent movie called *The Artist!* That's right: a film with no dialogue, no colour, no 3D! Nothing! Just a beautiful story, great acting and wonderful music. Have you always dreamt of winning an Academy Award? Have you imagined yourself walking on the red carpet in a beautiful dress or an elegant tuxedo, shaking Scorsese's hand or laughing with Jennifer Lawrence? Then silent movies are the way to go! From writing a storyboard to choosing your actors to shooting your own silent movie, today you will learn the basic ingredients to rule Hollywood!

MYSTERIES OF METAPHYSICAL MASTERPIECES

WITH SAPPHO DALZIELL

Are you ready to wrap your cerebrum around some mind-bending metaphysics? But hang on, what IS metaphysics? Well, in a nutshell, it's the principle of 'things'! It's all about abstract concepts like being, knowing, identity, time and space. In this workshop we'll explore ideas such as 'the difference between real and true' and 'the allegory of the cave'. Socrates, Plato and Aristotle will help you to come to terms with some theoretical dichotomies. To help us explore these ideas, we'll view some artworks from the 20th Century Italian metaphysical art movement 'Pittura Metafisica'. They will allow us to dive into some dream-like views and unexpected juxtapositions. Finally, you'll create the quirkiest combinations of materials to collage your own metaphysical masterpiece. **Check out *The Uncertainty of the Poet, 1913* by Giorgio de Chirico, to be awesomely inspired and adequately prepared for this workshop.**

THE MYSTERIOUS ILLNESS OF LANGADELL

WITH SARA ATEM

The city of Langadell is famous for its spectacularly diverse flora. It is an ideal location for biodiversity with the animals and people living in perfect harmony. Scientists and ordinary visitors flock to the area to take in the beauty. The people of Langadell are typically strong, healthy and happy... that is, they were, until last week when suddenly everyone began feeling ill. All living things started showing signs of toxicity. Plants are rapidly paling and dying. The council of Langadell has urgently called for expert help to investigate the situation. They are desperate to pinpoint and reverse the cause of this disaster. You have been chosen to join this team of experts. There is no time to lose. You will need to conduct a series of experiments to identify the causes of and treatments for this mysterious 'illness'. Your mission will not stop there though. With your team, and based on your findings, you must re-build an environmentally friendly city of Langadell. **Please come equipped with your laptop, a good quality magnifying glass and a pair of latex-free gloves.**

NEURO-RESCUE!

WITH JEN WATKINS

Have you ever dreamed that one day you might become a brain doctor or neurologist? Yes? Then join us as we delve into the human mind. Learn and understand how different parts of the brain work. Consider what happens when different parts of the brain are injured. Can we heal the brain after it changes? Then we have a very important job for you. There are five patients needing your help! In our doctor's surgery we will consult with the patients, each of whom is presenting with different symptoms and different histories. It is your job to develop a treatment plan for each one. Time is of the essence though as we must ensure that all patients are seen to by the end of the day! As a brain doctor in training, you'll complete a range of brain games and hands-on experiments, be amazed by several intriguing case studies such as those of famed neurologist Oliver Sacks, each providing us with hints into what regions of our brain are for! We will focus in particular on memory, hearing, physical sensation, movement, vision and executive function. By the end of the day you will have gained an incredible insight into the capacities of the human mind!

JOYRIDE AROUND THE UNIVERSE

WITH KATRINA SIMS

It's the year 2119 and you have boarded the Intergalactic Roller Coaster (IRC) for the first time. You enjoy the cosmic food, as well as your stop on planet Mars to play with the mighty Martian mice and to visit the Galaxy Museum. On your Jupiter stop however, you run into a communication calamity. A group of interplanetarians is desperate to board the IRC but the rules are clear – only Earthlings may board and travel on this vehicle. You feel there must be a reason for their desperation though and you want to help them. Despite experimenting with various hand, body and other peculiar distortions, they are unable to communicate with you. You see, our alien friends have no mouths! The interplanetarians keep passing each other little discs. What are these? Why do they want to leave Jupiter so desperately? Are they in danger? Suddenly, one of them hands you a key. But this is no ordinary key! Will it open the door to communication? During this exciting workshop, you will discover how the key helps you communicate with the Jupiter locals and what their fate is! Oh... and codes, ciphers and alphabetic matrices will play a major role!

MISSION IMPOSSIBLE!

WITH ANNA JAHJAH

At the end of WWII, the British secret services came up with a clever idea to send the German army down the wrong track. A young English man who had just died was disguised as a British pilot and left in the water, not far from the Spanish shores. A suitcase was attached around his wrist with a wire. It was full of documents, including secret information about a fake landing supposedly happening in Sicily, but also personal letters and pictures to make the whole story look real to the Germans. When the body was found in Spain, the Germans heard about it, believed the whole story and went to the wrong place! If you've always dreamt of being a spy, if James Bond is one of your personal heroes, this workshop is for you! Your mission: to imagine that you are a British spy with the task of creating all the documents to make the story of the fake British pilot believable. You will have to create fake pictures, letters to family and friends, fake maps of Sicily and real secret codes. But wait! There's more to come! After exploring a few other creative (and real!) ideas (a life-size Paris made of cardboard, for example), you will be given one last mission: come up with your very own creative spy idea to trick the enemy... No time to waste though. This message will self-destruct in 5, 4, 3, 2...

WILL'S WIT KIT: SHAKESPEARE FOR SHARP MINDS AND SHARP TONGUES

WITH ANNA KAMARALLI

Ever wish you always knew exactly what to say? Witty rejoinders, sharp remarks, greetings, insults, challenges and compliments – Shakespeare always knew how to say the right thing for the occasion. This workshop focuses on dialogue, with extracts from all of Shakespeare's most zinging scenes. Students will play a series of games using lines from Shakespeare's original text, until they build the confidence to perform scenes with each other. Students will be given the opportunity to choose their favourite lines, and experiment with putting the pieces together in their own way to create a performance. There will be duels, parties and dramatic encounters galore!

A DAY IN THE LIFE OF PROFESSOR CURIEUX'S LAB ASSISTANT

WITH SARA ATEM

Your internship begins today! Welcome budding scientists to your internship at the G.A.T.E.WAYS Laboratory of Discovery. Your mentor will be none other than the famous inventor of the Shrink Machine, Professor Curieux. Once you have familiarised yourselves with your lab equipment, lab protocol and the Professor's shrink machine, you will begin your first assignment. Step inside the shrink machine to go face-to-face with the tiniest living organisms on Earth, microbes. Some are elongated, others are oval, some have filaments while others have tails! They even communicate and behave differently from one another. While in miniature mode, you must identify the friendly ones that can help protect you from infectious attacks and diseases. The shrink ray power only lasts a certain amount of time, so ensure you make these crucial discoveries within the given time frame!

Once back to normal size, the Professor will guide you as you conduct a gram stain to test the difference between *S. epidermis*, *B. subtilis* and *E. coli*. You will prepare your own petri dishes and grow microbes. You will also build your very own agarose gel electrophoresis to separate macroscopic molecules. Using bioinformatics software, you will record your findings. This will be a pretty impressive internship – one that you must go to great (and microscopic) heights to master!

Our Festival presenters are a brilliant bunch! To learn more about them, head to <https://www.gateways.edu.au/programs/festivals/end-of-year-festivals>

GATEWAYS 25 years of inspiration and challenge