

GATEWAYS FESTIVALS

G.A.T.E.WAYS has pleasure in inviting gifted and talented
Year 3 and 4 children to a 'FESTIVAL OF WORKSHOPS'

at Firbank Grammar, Middle Crescent, Brighton

THURSDAY 13 DECEMBER and FRIDAY 14 DECEMBER

PROG	Thursday 13 December, 2018	PROG	Friday 14 December, 2018
1	AM: Space Adventures (T) PM: The Curious Incident of the Pie in the Night (S)	1	AM: Galaxy Bots Save the Universe (T) PM: Superhero Science (S)
2	AM: Medieval Mayhem (M P) PM: It's Energised! (S)	2	AM: Medieval Mayhem (M P) PM: It's Energised! (S)
3	AM: Tantalising Tales (L) PM: Soaring High! (A S)	3	AM: Get Me Out of Here! (P S) PM: Tantalising Tales (L)
4	AM: Deadly!! (S) PM: The Case of the Missing Popcorn Machine (M P)	4	AM: Deadly!! (S) PM: The Case of the Missing Popcorn Machine (M)
5	AM: Super Poetry: it's a bird, it's a plane... (L) PM: Monkeying Around (S A)	5	AM: Super Poetry: it's a bird, it's a plane... (L) PM: Monkeying Around (S A)
6	AM: The Mystery of Patty's Stolen Cupcake (S) PM: Robbie the Runaway Robot (P M)	6	AM: The Mystery of Patty's Stolen Cupcake (S) PM: Robbie the Runaway Robot (P M)
7	AM: Let's Make Mind Magic (S A) PM: Disgusting Special Effects (A)	7	AM: Harry Potter and the Giant Peach (L) PM: Make Your Mark (A)
8	AM: How Electrifying (S) PM: Cryptologists On Probation (S P)	8	AM: How Electrifying (S) PM: Cryptologists On Probation (S P)
9	AM: A Hothouse in Space (S) PM: Got the Need For Speed (T)	9	AM: Soaring High! (A S) PM: Got the Need For Speed (T)
10	AM: Get Me Out of Here! (P S) PM: Harry Potter and the Giant Peach (L)		

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

ENROLMENT PROCEDURE

Please choose one program only. Workshops cannot be mixed and matched. Do not choose the same workshops both days.
The fee is \$103.00 per day.

Enrolments open Monday, 22 October

1. Go to 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 03 9894 2116

FESTIVAL WORKSHOPS

9.30am – 3.15pm

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.

Also bring along any additional materials listed for your program.

SPACE ADVENTURES with Andrew Dobbyn

Wow..there *REALLY* is life on other planets? Scientists have recently discovered life on other planets and you have been employed to bring the story of their discoveries to life using a well know program called Scratch. You will plan the structure of the story, select characters and sprites to match, choose appropriate backgrounds and program the animations to bring the story to life. You will have the opportunity to share your stories with others towards the end of the session.

THE CURIOUS INCIDENT OF THE PIE IN THE NIGHT with Simon Matheson

The final episode of hit reality TV show CookMaster has been embroiled in controversy. Finalist Pastry Pat's famous cherry pie has been ruined, splattered all over the floor and squashed flat. Prime suspect, fellow finalist Cathy Gateau, was apprehended at the scene, with a suspicious purple-ish stain on her shirt. When asked what the stain was, she replied:

"Um...I don't know. Maybe it was from the hamburger that I was eating at lunchtime. Some of the beetroot fell out onto my shirt. Or maybe it was from the sauerkraut that I was making for the show. Or hang on, maybe it was from that blueberry juice drink I just had. Whatever, it's definitely NOT cherry pie."

Now, you have been called in by the producers to solve the case using the latest chromatography techniques. Learn about chemicals and colours as you strive to discover whether you can let Cathy 'off the hook'.

MEDIEVAL MAYHEM! with Alison Brown

Calculation Castle has been attacked by the neighbouring knights! All soldiers and guards are required to fend off the enemy. In an attempt to save their precious castle, all members of the Calculation community must move methodically from room to room, deactivating the traps, unlocking secret codes, re-arranging jumbled doors, walls and barriers, and eliminating suspicious spies. Maths problem solving skills, logical reasoning, geometry ability, and quick calculations are all required to solve the problems and traps set around the castle. As an added precaution, these same skills will then be utilised to protect the castle with similar (and perhaps more complicated) problems and puzzles created by you! Participants will learn and practise a range of problem solving skills and strategies and then utilise these skills in creating similar problems of their own design. **Bring an A4 spiral bound notebook.**

IT'S ENERGISED with Emma Carter

Sound and light, electricity and movement, our bodies, our brains and even our planet – none of these would 'work' without energy. Learn about where energy comes from, where it goes and what it can do along the way. See how much elastic potential energy is converted to kinetic energy when you build a car powered by a balloon. The faster it goes, the more kinetic energy it has! Look at the orbits of the planets and comets to see where the energy is at different parts of the orbit. Some of the orbits look pretty strange! Find out about energy from food and how it is used inside our own bodies. A combination of activities, challenges and demonstrations will allow students to understand the importance of energy and how we can use it.

TANTALISING TALES with Kate Mildenhall

Are you a whizz with words? Can you rise to a challenge? Come test your mental agility in a writer's workout that will take you to the edge and leave you breathless! In this workshop jam-packed with writing exercises to stretch the nimblest of minds and have you racing against the clock, you'll leap and dive through a range of writing exercises designed to fire up your imagination. Can you write the shortest story in the world? Tell a tantalising tale without the letter T? Plan and solve a crime story using only dialogue? Through setting, character, plot and dialogue we'll race, until we reach the finish line sweating and clutching a fistful of story gold.

SOARING HIGH! with Jo Baker

A breezy afternoon, a near-empty park ... a kite ducking and weaving in the sky. It paints a pretty picture, does it not, and you can put yourself firmly in the centre of the fun by soaring high yourself! We'll begin by learning about the importance of kites in different cultures and countries. We'll learn the underlying science behind how and why a kite flies. Then we'll decorate our own Sled Kite using bright colors and design before constructing our kites. Lastly, we'll venture outside and fly our wonderful creations. A puff of wind will see them soaring high!

DEADLY!! with Jacob Pini

Imagine you are face-to-face with an animal so poisonous, so deadly, that it could end your life with a single bite. Would you have the presence of mind to consider your anti-venom options? Possibly not, but in this workshop, we *will* have the time to explore what makes some creatures, from poisonous reptiles to paralysis and necrotising bugs, so deadly. We will find out what happens to the nervous and cardiovascular systems when we introduce venom. We will investigate how the body reacts to the anti-venom used to counteract it and whether anti-venom preserves life in all instances. We will also discover why venom is so important for an animal's survival and how medicine is transforming poison into cutting edge elixirs of life!

THE CASE OF THE MISSING POPCORN MACHINE with Jenny Lee

POP, POP, POP! The sound of popcorn popping is so exciting for Pete as his favourite snack is...popcorn! Pete is even *more* excited about the upcoming school fundraiser school because he gets the chance to run a popcorn stall using his priceless Magical Popcorn Machine (MPM). It is certain to be a hit as it can create the most amazing flavoured treats, from yellow, buttery, caramel popcorn to green apple-flavoured, cotton-candy popcorn... just to name a few! All he needs to do is put in the correct amount of each ingredient in ratio, volume or capacity and run the machine. His stall is set and ready to go on the night before, but when he arrived on the day of the fundraiser, everything was gone! Armed with a magnifying glass and a logical mind, can you follow the clues and assist Pete to figure out what has happened to his machine and ingredients and help him get ready for the event before it's too late?

SUPER POETRY! "IT'S A BIRD, IT'S A PLANE – IT'S A SUPER POEM!" with Cameron Semmens

Imagine you had a superpower – *that nobody else had*. How cool would that be? Let's do it. We'll create our very own superheroes, with their own catch-phrases, their own outfits and their own archenemies! And from there we'll fly into their amazing worlds with wild words and action-packed poetry. We'll also imagine how to make the world a nicer place – a safer place – with *or without* super powers. You'll be learning how to brain-storm; how to turn your amazing imaginings into amazing poems; and how to use your creativity to dream up a better world for everyone. **Bring an A4 book to work in.**

MONKEYING AROUND with Andrew Plant

So, you think your family is a bit strange sometimes? Come and find out about your extended family – the primates! Are you tense as a tarsier or lanky as a lemur? Garrulous as a gibbon or colourful as a colobus? If you think aping your friends and monkeying around is fun, join us on a journey of science and art to investigate and draw a few of the huge variety of our closest relatives – the primates! Discover the difference between a monkey and an ape, why gibbon wrists go round the twist, how gorillas are big softies but chimps are gangland killers, and just what is an aye-aye! Then we'll work out exactly where we fit in! **Bring a sketch pad.**

THE MYSTERY OF PATTY'S STOLEN CUPCAKE – A WIMPY KID MYSTERY with Allen Dickson

Greg Heffley looks like he is going to be in trouble again. It's not enough that he lives with the ever-present threat of the cheese touch, but now he is accused of stealing Patty Farrel's prize winning cupcake. Greg knows the only way to save himself is to help his enemy. Armed with a list of suspects and some awesome experiments, you will perform dactylic, dental and cheilosopic investigations to try and help Greg discover whodunit and how. He has to do more than write this up in his diary... I mean, his journal. He has to create the Wimpy Kid Detective Agency.

ROBBIE THE RUNAWAY ROBOT with Sharon Leibowitz

Professor Abacus is in tears. He was working on a new machine to enlarge pizzas when he mistakenly enlarged his favourite robot, Robbie who stomped all over his house, causing chaos. Now he has escaped and is creating mayhem in the city of Mathland!! Professor Abacus has begged his friend Professor Absentminded to lend him his reducer machine so that he can shrink Robbie back to normal, but Professor Absentminded can't remember where he has put his machine. He thinks that maybe it has been stolen! The mayor is going crazy as her phone is ringing 'off the hook' with complaints. She and Prof A need a great maths detective to help them find the machine before the town goes into lockdown. Can you help? To solve the mystery, you will need your knowledge of area and perimeter to help you unravel the clues presented in this intriguing case.

LET'S MAKE MIND MAGIC with Annette Subhani

Here is a workshop with a difference! Do you wonder how each body system relates to the other? Are you 'happy go lucky' about everything, or do you sometimes worry and become anxious? During our time together, we will head inside the human body to explore how things work, the importance of our senses and how stress can affect our bodies. Using a variety of body models and through some movement exercises, we will all experience first-hand the power of mindfulness. We will practise to focus our thoughts, let go of a worry and use the power of taste and smell to make mind magic, and be surprised with the outcomes!

DISGUSTING SPECIAL EFFECTS with Debi Cohen

Ever wondered how special effects are created for the movies? Makeup turns ordinary actors into zombies, monsters and vampires. Now you can learn to create some of these special effects! We'll practise the tricks that makeup artists use to create the most disgusting and frightening effects. You'll make fake blood, oozing blisters, scabby cuts, burns, and more. Along the way, you'll also learn some cool science about what happens to your body when things like gashes, bruises and burns are for real. **Bring a small bottle of PVA glue and a crepe bandage. Wear old clothes. Not recommended for students with food or skin allergies.**

HOW ELECTRIFYING with Tim Byrne

Do you know how magnets can make electricity? In this workshop we'll play with magnets, copper wires, batteries and bulbs. We'll discover how electricity is created, how it travels and what it can be changed into. Do you know how to make a simple electrical circuit? We'll investigate the similarities and differences between LEDs and bulbs, as well as, aluminium and copper. We'll use commercial batteries and even make one of our own. We'll put our knowledge into practice when we build a number of things ranging from a simple electrical motor, an electromagnet, a torch, a buzzer, and if we get time, a simple robot. **Bring a AA battery and a 9v battery.**

CRYPTOLOGISTS ON PROBATION with Maureen Frith

You have been summoned by master cryptologist *Mr E*. Knock three times, whisper the password and enter the mysterious world of espionage. *Mr E* knows that enemy agents have gained access to secret government documents and are preparing to smuggle them out of the country. He has intercepted a mountain of papers and envelopes, which he suspects contain messages secreted by various methods, including the use of invisible ink, patterns and codes. To discover where agents will be meeting, and how they will be leaving the country, *Mr E* urgently needs your help. You will learn to reveal and read these messages using chemical reactions, special lenses and code breaking techniques. So, get ready to join *Mr E* and become a cryptologist.

A HOTHOUSE IN SPACE with Herwig Waldhuber

What is it about Venus that captures our imagination so? Why are Earth and Venus so dramatically different? Why have there been so many myths and legends about Earth's sister planet. Who was Immanuel Velikovski and what were his impossible, but fascinating theories about Venus? How can Venus be a morning star and then later in the year an evening star? Did you know Venus orbits the Sun in the strangest way, unheard of amongst all the other planets? In this workshop you will discover the answers to all of these questions and more. You will learn how astronomers discovered that the real Venus is a red-hot oven. Is the planet the ultimate product of global warming, and, if so, are there lessons to be learnt for us on Earth.

GOT THE NEED FOR SPEED? with Ang Hewasiribaddana

VROOM VROOM! It's time for the G.A.T.E.WAYS Grand Prix. You're hoping to take first place and bring home a trophy - but which one? There's more than one prize to be won in this exciting engineering exercise! While designing and building your ultimate muscle machine you'll have to carefully consider which materials you use and what your aim is: is it speed you're after; is it the distance your car can travel that's most important; maybe you just want the machine to be indestructible, capable of blitzing a seemingly impenetrable obstacle! Design, construct, trial, refine and perfect your car then get ready to race. Drivers – it's time to take it up a gear!

GET ME OUT OF HERE!! With Ruth Evans

Professor Pumpnickel has gone up in a puff of smoke! What happened to him? Unravel the mystery using your specialist spy skills. The police are keeping everyone in a locked room. To prove your innocence, you will need to solve the crime. Find the clues, eliminate the suspects and discover the truth about what happened to the missing professor. Work together to solve riddles, unlock logic problems, crack codes and reveal hidden messages. Learn about forensic science and practise reading maps. Find the key to a hidden lock and piece together parts of a puzzle to reveal what really happened to your beloved teacher. But hurry, before it's too late!

HARRY POTTER AND THE GIANT PEACH with Rachel Holkner

What if Harry had chosen Draco to be his friend and joined Slytherin House? How would the story be different if Mr Tumnus had met a well-read little girl called Matilda in the woods of Narnia? What about if Red Riding Hood came across a giant beanstalk and decided to climb it? The decisions characters make in a story are vital. By dropping characters from one story into another we will explore how these decisions and actions affect the outcomes of some well-known stories. **Students should be familiar with both *Harry Potter and the Philosophers Stone* by JK Rowling and *James and the Giant Peach* by Roald Dahl before attending this workshop.**

GALAXY BOTS SAVE THE UNIVERSE with Mark Maxwell

In the *Marvel Guardian Galaxy superhero trilogy*, superheroes travel through the outer space of the far future, fighting against an alien invasion that threatens humanity's colonies throughout the universe. After stealing a mysterious orb in the far reaches of outer space, Peter, the leader of the gang, is now the main target of a manhunt led by the villain known as Ronan the Accuser. To help fight Ronan and his team and save the galaxy from his power, we need you to build and program a piece of equipment or a 'person' to assist our superhero and save the day. This could be a RoboGrab, a Mars buggy, an alien, a flying Saucer, mini Martian soldiers or even a satellite or space port from which our heroes could hijack the villain.

SUPERHERO SCIENCE with Jo Davis

Have you ever wondered how your favourite superheroes use their superpowers to save people? How does Spiderman climb walls with his bare hands, and how strong is a spider web? Is it possible to become invisible like the Invisible Woman, or fly like Superman? Do superhero costumes help them to gain superpowers? In this workshop we will complete a series of scientific experiments to help us understand if these superpowers are humanly possible, or just someone's imagination working overtime! Use your super-brain to test the strength of a spider web, the ability of sticky hands to climb walls, incredible powers of x-ray and heat vision, invisibility cloaks and more as we embark on our super-heroic adventure!

MAKE YOUR MARK with Jackie Moss

It's red; it's smaller than a graffiti 'tag' and larger than an 'emoji' What is it??

Chop, chop! We're heading to China to discover the intrigue and history behind Chinese *signature seals*. The unique 'signatures' found on Chinese art and documents were developed centuries ago and are still used today to denote both ownership and the work of an artist. Look closely, because once you discover these distinctive little red marks, you'll notice them everywhere! Why are they red? Why are they placed in different positions? Art lovers will discover the beauty and complexity of these tiny symbols. In this workshop you will create your own personal 'chop' with which to sign your original artworks which you can store in an origami box which you'll also make yourself.

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

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