

G.A.T.E.WAYS has pleasure in inviting gifted and talented  
**Year 3 and 4 children to a 'Festival of Workshops'**

hosted by Waverley College, 131 Birrell Street, Waverley

**MONDAY 9<sup>th</sup> DECEMBER & TUESDAY 10<sup>th</sup> DECEMBER 2019**

**9.30 am to 3.15 pm (registration 8.45)**

PROGRAM	Monday 9 <sup>th</sup> December	Tuesday 10 <sup>th</sup> December
1	AM: Box-Ambassadors to the Stratosphere <b>\$3 levy</b> (A) PM: Perilous MARS Mission Muck Up <b>\$3 levy</b> (T)	AM: Box-Ambassadors to the Stratosphere <b>\$3 levy</b> (A) PM: Perilous MARS Mission Muck Up <b>\$3 levy</b> (T)
2	AM: Kidtopia (L) PM: Surreal Snippets; Unreal Stories (L)	AM: Kidtopia (L) PM: Surreal Snippets; Unreal Stories (L)
3	AM: Ani-Matrix (M) PM: Gettin' Gassy! (S)	AM: Ani-Matrix (M) PM: Gettin' Gassy! (S)
4	AM: The Ancient Family Feud (M) PM: Count Like an Egyptian (M)	AM: The Ancient Family Feud (M) PM: Count Like an Egyptian (M)
5	AM: Dare to Find a Solution? (S) (P) PM: Mr Mendeleev's Wonder Emporium (S)	AM: Dare to Find a Solution? (S) (P) PM: Mr Mendeleev's Wonder Emporium (S)
6	AM: Hideous Horrors (A) PM: Doctor Spin (L)	AM: Hideous Horrors (A) PM: Doctor Spin (L)
7	AM: Lost...And Found (S) PM: The Mystery of the Missing Soldiers (P)	AM: Lost...And Found (S) PM: The Mystery of the Missing Soldiers (P)

(A) Arts: Creative or Performing (L) Language (S) Science (T) Technology (M) Maths (P) Problem Solving

**Please choose one program only per day. Workshops cannot be mixed and matched.**

**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](http://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 21<sup>st</sup> October**

## Year 3 and 4 Festival Workshops

### BOX-AMBASSADORS TO THE STRATOSPHERE

WITH LUCINDA CLUTTERBUCK

An embassy of aliens is hovering above planet Earth. Their spaceships cannot safely fly below the stratosphere. The only way to communicate with them is to build a fleet of box-kites decorated with images and messages to reassure the aliens that we are friendly. In order to make an airworthy kite, you will need to use effective teamwork, problem-solving and your knowledge of knots, aerodynamics and the tensile strength of string. Only then will you be able to safely retrieve your kite and read the messages that the aliens send in return. **There is a \$3 levy for the materials required for the construction of your own box-kite.**

### PERILOUS MARS MISSION MUCK UP

WITH JESS BUCHANAN AND JULIAN RIDDEN

NASA scientists are busy preparing to send humans to Mars in 2020. They have sent the Mars Rover to find the ideal landing site. But disaster has struck! The Mars Rover has gone silent! Radiation has corrupted the Rover's systems. Scientists must design a repair robot that can be dispatched by a drone to deliver a reboot and repair sequence to the immobilized vehicle. Can you help them design a repair robot that can survive the tough environment, deliver the code and save the mission? You will have to use all your engineering, design and coding skills to get to the Rover before its battery is depleted. You may also need to prepare your robot with a search and rescue sequence to cover this likely event. In this hands-on, fast paced workshop you will apply engineering, mathematical and technological skills. Participants will take home their designs at the end of the day. **There is a \$3 levy for the construction materials required in this workshop.**

### KIDTOPIA

WITH ZUZI FORT

The Prime Minister has called for the formation of a mini shadow cabinet run by Year 3 and 4 students. Why, you ask? Well, it seems the youth of the world are showing signs of out-smarting adults on many fronts! Fancy a visit to Canberra? To qualify for selection, you need to convince us that you know your legal lingo and government vernacular! What kind of government are you a part of? What party do you represent? (And no, not the streamer and balloon type of party!). How are laws passed? What changes to Australia's way of life are important to you? Will you support education and the arts? What role will adults play in your party? You must justify all your choices, of course. Will you adopt some of the traits our adult politicians possess? Refine your debating skills, revisit and expand upon your political knowledge and prepare to create a Kidtopia – a government to teach our adult politicians a thing or two!

### SURREAL SNIPPETS; UNREAL STORIES

WITH EMMA ROSE SMITH

Let's create stories together! But here's the catch: we only get clues, not the full picture, and we must make up the rest with our imaginations... This workshop is full of mysterious and wacky games, including the Exquisite Corpse - an experimental writing and drawing game invented by surrealist artists. The premise is that a story or artwork is pieced together by many people, each of us only knowing a little bit about what everyone else has drawn / written. What emerges is *always* a mystery. Collaboration, quirkiness and creativity are key! We will be joyfully exploring the mysteries of morphing group creations and writing some stories to treasure.

### ANI-MATRIX

WITH DIMITRI DOUCHIN

From one of the first cartoon characters, Mickey Mouse, to today's Moana, there have been a lot of advances in how characters are made to come alive on screen. But just how do you animate a character in the first place? By introducing a new mathematical object called *a matrix*! In this workshop, you will get the opportunity to animate your own character from... a spreadsheet! With a mix of creative inspiration, advanced maths and graphics technology, you will be welcomed into the exciting world of animation. Who needs a camera to make a movie when you understand the power of numbers!?! A workshop for creative daydreamers and mathematical nerds alike. **Please bring a USB to save your creation.**

### GETTIN' GASSY!

WITH RENGEN PARLANE

For decades, Gina the Gas Gobbler has lived a happy and fulfilling existence. Oxygen, nitrogen, helium, carbon dioxide, all life-sustaining... she craves them all. But Gina is now facing a serious issue. Her gas supply is running low, and fast! Can we help Gina to replenish her life sustaining gas supply before it's too late? We will begin this mission by investigating what gases are at a molecular level and modelling how gas particles behave at different temperatures and pressures. We will then become junior chemists, as we use some weird and wonderful reactions to restock Gina's gas pantry – and create an explosion or two along the way! Please be warned: this workshop will get very explosive and very messy! So... let's get to work –Gina needs her gas tank to be full!

### THE ANCIENT FAMILY FEUD

WITH VANESSA RYAN-RENDALL

Back in ancient mathematical times, two families were at war. Ready and armed they were prepared to fight, but at the last moment, a wise old man from a neighboring village ran in between the enemies and shouted 'Stop! - YOU have the answer!'. Everyone froze, perplexed by the sudden declaration and accompanying flash of lighting that cracked across the thundery sky. The old man held a dice, a triangle and a jar of numbers and lines. He announced that these items held the answer to the on-going family feud, but the answer would only reveal itself if the families could solve some ancient triangle problems, frazzled fraction conundrums and determine the role of choice in game of probability.

In this workshop, you will play the role of a member of the feuding family to help resolve their war. You will have fun challenging yourself in the world of fractions, probability and triangles of the numerical kind. Was the wise old man correct? Do you have the answers? If you love mathematics, this workshop is for you!

### COUNT LIKE AN EGYPTIAN

WITH MARIANNE SCHMIDT

Spend half a day as a student scribe at the Memphis School for Egyptian Scribes. We will be buddied up with an Egyptian boy, Nakht, who will take us on a journey of discovery into the world of Egyptian mathematics. Nakht and his classmates take us to ancient Egyptian fields and workshops to find out how working scribes used the Egyptian number system to measure farmer's fields, calculate harvests and determine the quantity of materials needed to construct buildings and monuments. Along the way you will learn how to read and write Egyptian numbers, use your body as a measuring tool, explore the purpose of a nilometer, do some canny calculations and discover how Egyptians did multiplication and division without the use of times tables!

### DARE TO FIND A SOLUTION?

WITH KATE PARKER

It's 2100 and global warming has had a serious impact on our world. Greta Thunberg and the scientists were right, and they dare you to be part of the solution! Your job at The Thunberg Institute has required you and your team of environmentalists to search the globe for new land masses. With the ocean levels still so high, plenty of populations have lost their homes and land is a valued commodity. Finally, you've hit the jackpot...untouched by humans and overflowing with pristine forest, lakes and even renewed marine life, you find an island big enough to become a home to 10,000 people. The Thunberg Institute has set you the task of planning how to prepare the uninhabited island for so many people whilst making a very small carbon footprint. This could be the perfect oasis for people who have become displaced and lost their homes - but you need to plan carefully to avoid the mistakes of the past. We'll need to investigate the science behind environmentally-sound town planning - What types of agriculture will you use? How will we access and store power? By investigating aquaculture and water use, permaculture, medical and health management and sustainable housing alternatives, are you able to create a blueprint for a new country that is desirable to live in and environmentally sound?

### MR MENDELEEV'S WONDER EMPORIUM

WITH SCOTT HAHN

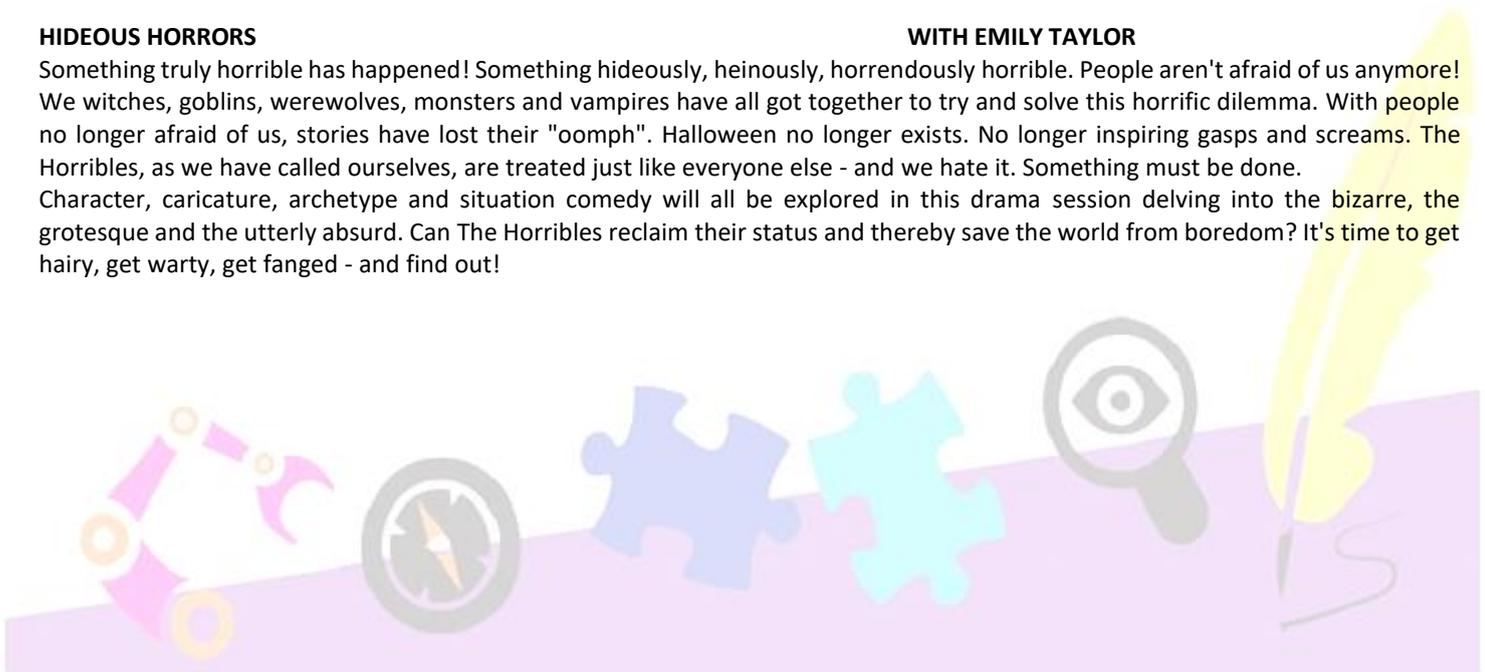
Дмитрий Менделеев was a mad scientist. Or at least he looked like one. Дмитрий Менделеев (Dimitri Mendeleev) was a genius. Surrounding himself with dangerous chemicals, corrosive acids, experiments, experiments, experiments, and *EXPLOSIONS* in order to explore his insatiable curiosity (and because those things are awesome), young Mendeleev did a lot of cool stuff in his madcap, mixed-up life. And now we get to do the same. I mean, chemicals, acids, experiments... what's not to love?! We'll go through his Periodic Table (yes, he's that dude), isolating elements to see how their properties differ. We'll push them, pull them, pour them, mix them, light them on fire and, of course, explode a couple. For the record, though, we'll do our best to skip the parts of Mendeleev's life where an old man goes blind and buildings burn down!

### HIDEOUS HORRORS

WITH EMILY TAYLOR

Something truly horrible has happened! Something hideously, heinously, horrendously horrible. People aren't afraid of us anymore! We witches, goblins, werewolves, monsters and vampires have all got together to try and solve this horrific dilemma. With people no longer afraid of us, stories have lost their "oomph". Halloween no longer exists. No longer inspiring gasps and screams. The Horribles, as we have called ourselves, are treated just like everyone else - and we hate it. Something must be done.

Character, caricature, archetype and situation comedy will all be explored in this drama session delving into the bizarre, the grotesque and the utterly absurd. Can The Horribles reclaim their status and thereby save the world from boredom? It's time to get hairy, get warty, get fanged - and find out!



### DOCTOR SPIN

WITH TRACY FORBES

Calling all wondrous wordsmiths to take part in a super session which will see us exploring the world of journalism and politics and diving head-first into spin-doctoring. Do you have a way with words? Do you possess the tricks of the trade when it comes to spinning tales? Can you make the positive sound negative and vice versa? In this workshop we will apply sneaky spin tactics such as manipulating, omitting or embellishing information, using powerful language and applying double-speak. For example, a negative media story about a dark and dingy house could be marketed more positively as a 'charming house with character'. Are you ready to step into public relations and politics and take on the role of a spin doctor? Can you persuade your audience to buy that 'charming house with character'? It's time to embrace some public speaking tricks of the trade and get spinning with Doctor Spin!

### LOST....AND FOUND

WITH ANU VIJAYAN

Imagine this. You are with your scout and guides group, bush bound on an adventurous trek throughout the beautiful Cradle Mountains in Tasmania. But all goes terribly wrong when you are distracted by some baby quolls and follow them to get some pictures. Unfortunately, the leader miscounted the group at the beginning of the day, so they don't even know that you are missing!! After taking your troublesome photos, you turn around, only to discover that you are utterly lost. East and west look identical. You are a confident map reader, but you had put down your backpack (map inside), back at the beginning of your quoll chase. Now you have nothing but your camera and what is in your pockets.

How would *you* survive if you were left to your own devices in the harsh bushlands of Australia? In this workshop, we will explore this scenario and combine Indigenous Australian know-how with botanical science to ensure your survival. You will learn some essential life skills like map reading, identifying edible and poisonous plants and how to find the best sources to get water. And what happens if you have a fall or begin to feel ill? Does the bush offer medicine and first aid options? How much time do you have before night falls? How can you tell and why is this so important? This workshop may just save your life if ever *your* supervisor miscounts heads on a bush bound excursion!!

### THE MYSTERY OF THE MISSING SOLDIERS

WITH MICHELLE EMSLEY

Hannah the historian is writing a new history book. She's desperate to discover what happened to the Ninth Legion, a group of top Roman soldiers who disappeared around 142AD. You've discovered a message in Roman numerals which you believe could lead to the answer. But to crack the code you'll need to travel to St Albans, formerly Roman Verulamium and once one of the most important towns in Roman England, to unearth a series of clues. You'll examine Roman ruins, visit the reconstructed mosaic and the Roman road, Watling Street, and investigate Roman aqueducts and sanitation. Each of these Roman relics will provide a piece of information that will help you ascertain what happened to this premiere fighting force. You'll then consider theories before drawing your own conclusion. Can you help Hannah solve this mystery which has baffled historians for nearly 2000 years?

**Our Festival presenters are a brilliant bunch! To learn more about them, head to  
[www.gateways.edu.au/programs/festivals/mid-year-festivals](http://www.gateways.edu.au/programs/festivals/mid-year-festivals)**

# GATEWAYS

**25** years of  
inspiration  
and challenge

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