

G.A.T.E.WAYS has pleasure in inviting gifted and talented  
**Year 1 and 2 children to a 'Festival of Workshops'**  
 hosted by Ravenswood School for Girls, Henry Street, Gordon

**MONDAY 1 JULY AND TUESDAY 2 JULY, 2019**  
 9.30 am to 3.15 pm (registration 8.45 am)

PROGRAM	Monday 1 July	Tuesday 2 July
1	AM: Charged Up! (S) PM: What an Illusion! (M, A) <b>FULL</b>	AM: Charged Up! (S) PM: What an Illusion! (M, A)
2	AM: A Zany Zyber Mission (M) PM: Bubble Trouble! (S)	AM: A Zany Zyber Mission (M) PM: Bubble Trouble! (S)
3	AM: Holiday Dreaming (L, A) <b>Filling fast!</b> PM: Fearless and Funny Furballs! (L)	AM: Holiday Dreaming (L, A) PM: Fearless and Funny Furballs! (L)
4	AM: A Sugary Sleuth-a-Thon (S) <b>Filling fast!</b> PM: Indi Jones and the Perplexing Puzzles (S, M)	AM: A Sugary Sleuth-a-Thon (S) <b>Filling fast!</b> PM: Indi Jones and the Perplexing Puzzles (S, M)
5	AM: Peculiar Polymers <b>\$3 levy</b> (S) PM: Submarine Seeking Successful Communication! (M)	AM: Peculiar Polymers <b>\$3 levy</b> (S) PM: Submarine Seeking Successful Communication! (M)

(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 \$107 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 Now!**

## Year 1 and 2 Festival Workshops

9.30 am to 3.15 pm (registration 8.45 am)

### CHARGED UP!

WITH TRACY FORBES

Come join us for this charged up, science workshop for budding young physicists. What is electrical *charge*? How can we create charges? How can we measure their strength? We will explore static charge from the very small, through to the very large charges found in lightning and investigate the science behind them. We will hypothesise, plan and conduct fair experiments using lots of materials that we can find around our homes. We will also explore magnetic charge, learn about magnetic field and make our own compass. Let's get charged up for an electrifying session!

### WHAT AN ILLUSION!

WITH SAM MCNAIR

Optical Illusions use color, light and patterns to create images that can be deceptive or misleading to our brains. The information gathered by the eye is processed by the brain, creating a perception that in reality, does not match the true image. How can a flat surface have depth? How can artwork be so mesmerizing that you could be fooled into thinking that you are able to enter the scene? What wizardry is this? For centuries artists have worked magic using something called perspective. In this workshop you will learn about the tricks behind one and two-point perspective and put them into practice yourself. Dabble with dimension and learn to make your art POP off the page. But take care as we might discover strange twists at every turn. Not everything is as it seems as we explore the puzzling world of perspective and in this workshop, you'll create your very own optical illusion to prove it! **Bring a ruler and a graphite sketch pencil and eraser (available from Officeworks or your local art shop).**

### A ZANY ZYBER MISSION

WITH MICHELLE EMSLEY

The tiny Zybers have tumbled through space and crash landed in Sydney. They're desperate to return home and have begged you to design the perfect spacecraft for the mission. You notice the Zybers are covered in cuts and bruises and ask why. The head Zyber explains they aren't used to the jagged edges on Earth. To prevent more injuries, you'll need to design a spaceship that features only curved surfaces. A team of NASA engineers have offered to help but they are only free for half a day. The engineers need accurate measurements for the design. Luckily you have Newty from NASA to assist with investigating area and to help you use Pi for the calculations. Can you design the perfect ship and calculate the measurements before the NASA engineers depart forever? **Bring a pair of compasses, scissors, glue and a ruler.**

### BUBBLE TROUBLE!

WITH ERIN MANSELL

Bo Peep was experimenting with bubbles in Lost Toy World when she accidentally cast a terrible bubble spell that trapped Bonnie's new friend, Forky, turning him into a carnival prize. It is your job to try to help break the spell by working out which solution and bubble wand was responsible for creating this spell. In this workshop you will learn the secret recipe for creating super bubbles, find out how to catch bubbles before they pop and discover whether it is possible to create bubbles in the shape of a cube. You will even get to design, make and test your own bubble wand. You can help the toys save Forky by using the clues to reverse Bo Peep's bubble spell in this super fun and fascinating bubble workshop.

### HOLIDAY DREAMING

WITH ZUZI FORT

Calling all visionaries! Your mission, should you choose to accept it, is to design the marvellous holiday destination - something befitting your wildest dreams. You have boundless resources and cost is not an issue. The sky is the limit. Your jobs: to design your resort, to create a brochure and the perfect sales pitch, to come up with a persuasive advertisement, and to create a really appealing mascot. Your resort can be hovering in the sky, deep within the earth or on another planet all together. However, there is a catch; the resort must be sustainable, environmentally friendly, and self-sufficient. Grab your design-thinking cap, fill your pockets with imagination and don't forget your creative boots! This workshop will take you places you could only dream of!

### FEARLESS AND FUNNY FURBALLS!

WITH SAPPHO DALZIELL

Many of our favourite authors and poets have long had a fascination with creating funny, fearless, furry, friendly, frightening and fiendish animal characters, personifying them and then placing them in the stickiest of situations. In this workshop, we'll explore some hilarious animal antics in a range of books and poems such as: *A Giraffe and a Half*, *The Gruffalo*, *Mr Magee and the Biting Flea*, and *The Dentist and The Crocodile*. How do these writers create such mighty, meek or mysterious animal characters? And how do they use rhyme and situational humour to make us gasp or giggle? Can you conjure-up some of your own wild or wacky animal characters and experiment with creating some laugh-out-loud limericks and side-splitting stanzas? Be ready to walk some animal walks and talk some animal talks!

### A SUGARY SLEUTH-A-THON

WITH VANESSA RYAN RENDALL

A bag of Willy Wonka's famous Jelly Chews has mysteriously appeared in your letterbox. Inside is a note calling on you to jump on a plane post haste to the Amazon rainforest. Wonka's secret candy factory has been burgled! His latest batch of Jelly Chews, made to a top-secret recipe, has been stolen. Can you use your sugary sleuthing skills to catch the culprit? You'll need to investigate the crime scene and sort out the evidence: a half-eaten hamburger, some dirty footprints, a torn handwritten note complete with dusty fingerprints and a wobbly-looking tyre track. But alas, it rains nearly every day in the Amazon, so you'll need to work quickly! Will you be able to retrieve the lolly loot, put the crim behind bars and fill the Jelly Chew orders before the end of the day?

### INDI JONES AND THE PERPLEXING PUZZLES

WITH KATE PARKER

Your school's much-loved science teacher, Professor Indi Jones, is missing. Last seen in her lab at school just before lunch, the professor vanished some time before the final bell. We need you to find her! Indi is an eccentric and creative genius, and luckily, she's left a trail of clues behind which should help you: a periodic table of elements with a strange riddle, a message full of symbols that needs decoding, a logic puzzle and a series of mini mysteries. Once you've solved these, there will be a final brain bending challenge that should lead you to the Professor. Get your detective solving skills ready and your brain in gear – you'll certainly need them to find the good professor and the reason for her disappearance!!

### PERCULIAR POLYMERS

WITH DIANA THANOS

Polymers, giant molecules made up of repeating combinations of atoms, are all around us – they are found in common items from cotton, to bubble gum to plastic bags. Many occur naturally and lots are man-made. Some are rubbery like a bouncing ball, some are sticky and gooey and some are hard and tough! Come and discover how to make bouncy polymers in this exciting, hands-on workshop. Enter the lab and have fun as you observe, predict, compare, measure and come to conclusions, just like a real scientist. What is a polymer? What do they do? How do we use them? These are just some of the questions we will answer together in a workshop that will have you bouncing like an elastomer! You will laugh, learn and discover what amazing lengths a polymer will go to, just because it can! ***This program has a \$3 levy payable on enrolment.***

### SUBMARINE SEEKING SUCCESSFUL COMMUNICATION!

WITH LESLIE MARSH

After a recent research finding that some animals respond to certain symbols, especially numbers, Professor Charlie (short for Charlotte) Bunce, the famous oceanographer, has decided to mount a groundbreaking expedition. Charlie's favourite animal is the octopus. It is well known that the octopus is a highly intelligent creature: it can use tools and it retains complex memories among other things. The professor wants you to join her on a submarine journey to the chilly waters between Korea and Japan. Your mission? To communicate with a deep-sea octopus!!! Prior to setting off, the submarine will need to be covered with intricate mathematical designs. The theory goes that a clever octopus will recognise that the vehicle contains intelligent life. Hopefully it will respond in some way, thus supporting Professor Bunce's research! Using the mysterious patterns contained within Pascal's Triangle, you must choose the best mathematical number pattern for the job. Then it's off on an adventure of a lifetime. Good luck – let's hope your mission is successful! ***Please bring scissors, a ruler and a calculator (labelled with your name).***

**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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