

G.A.T.E.WAYS has pleasure in inviting gifted and talented
Year 1 and 2 children to a 'Festival of Workshops'

hosted by Firbank Grammar, Middle Crescent, Brighton

THURSDAY 12th DECEMBER & FRIDAY 13th DECEMBER 2019

9.30 am to 3.15 pm (registration 8.45)

PROGRAM	Thursday 12 th December	Friday 13 th December
1	AM: Is Ipsy-Wipsy FULL ded Killer? (S) PM: Zac Power – FULL d (S) (T)	AM: Is Ipsy-Wips FULL ded Killer? (S) PM: Zac Power – FULL d (S) (T)
2	AM: Trouble With FULL (S) PM: The G.A.T.E.' FULL Prix (T)	AM: Around The FULL econds (S) PM: Mars Here FULL (T)
3	AM: Playing With FULL (S) (A) PM: The Mystery FULL ng Storybox (P) (L)	AM: Playing With FULL (S) (A) PM: The Mystery FULL ing Storybox (P) (L)
4	AM: Somewhere Over The Rainbow (S) PM: That's Classified! (S)	AM: Somewhere Over The Rainbow (S) PM: That's Classified! (S)
5	AM: Help! My Mummy is a Pharoah! (S) PM: Ice Cold Life (S) (A)	AM: Help! My Mu FULL ' aroah! (S) PM: The G.A.T.E.V FULL Prix (T)
6	AM: A Cavalcade of Cats (L) PM: Aesop's Adventures in Fableland (L)	AM: Bubble Trouble (A) PM: Ice Cold Life (L)
7	AM: Game Over Little Ant (P) PM: A Petite Poetry Party (L)	AM: A Cavalcade of Cats (L) PM: Aesop's Adventures In Fableland (L)
8	AM: It's A Superhero Sonic Solution! (T) PM: Help! We're In A Sticky Situation! (S)	AM: Game Over Little Ant (P) PM: A Petite Poetry Party (L)
9	AM: Mars Here W FULL (T) PM: Bubble Troub FULL (S)	AM: It's A Superhero Sonic Solution! (T) PM: Help! We're In A Sticky Situation! (S)

(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 \$108 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 03 9894 2116

ENROLMENTS OPEN NOW!

Year 1 and 2 Festival Workshops

IS IPSY WIPSY A COLD-BLOODED KILLER?

WITH TIM BYRNE

Spiders are fascinating creatures that are famous for scaring people and controlling insect populations. Why do people find them so frightening? Is it their eight legs, two fangs, sticky web or their eight unblinking eyes? This workshop explains the part spiders play in the web of life. We will find out about some of the many tricks spiders use to capture their prey and complete a number of experiments to demonstrate spider talents such as ballooning, walking on water and building various silken webs. We will also make a spider model and explore about spider anatomy, and take a close look at red backs, wolf spiders, jumping spiders, the funnel web and the peacock spider. At the end of the workshop, you will be able to answer the question of what would happen to us if all the world's spiders disappeared? **Bring a spider in a safe container, if you have recently caught one.**

ZAC POWER: POISON ISLAND

WITH ALLEN DICKSON

Zac's mission is to go to the most dangerous island on the planet – Poison Island! Battling his way through quicksand, piranhas and poison frogs, he has to try and discover the formula for Solution X, Dr Drastic's new disastrous potion for world domination. But when his geeky older brother gets kidnapped, Zac has to think fast to uncover Dr Drastic's plans, swipe the formula, save his brother from being fed to a volcano... and still soak up some rays on a tropical island. With a mix of mathematical and scientific experiments, we'll trace his journey, find out about formulas and help him on his way to being the coolest kid spy since James Bond was in shorts.

TROUBLE WITH TROLLS

WITH ALISON BRENNAN

Oh no! Poppy and her friend Creek have been captured by the evil Bergens who have a spell cast upon them. They've both been frozen solid in a block of ice, and then placed inside a locked cage! What can be done? How can we get rid of the spell, find the key to open the cage and release the helpless little trolls? The others are losing their vibrant colours because they are sad about their missing friends - luckily, there is a book that can help us: *The Young Trolls' Guide To Spells And Potions*. We need your help trying out potions and spells found within the pages to help us find the key to free Poppy and Creek and restore colour and happiness to the village. This program involves problem solving, teamwork and lots of fun, hands on science. Some of the experiments will involve chemical reactions, exothermic and endothermic, pH indicators, bubbling solutions and salts.

THE G.A.T.E.WAYS GRAND PRIX

WITH ANDREW DOBBYN

Do you love designing and building creations out of LEGO? Do you want to learn how to make your creations perform specific functions? If the answer is YES, then this session is for you! You will design and build a racing car and program it to compete in the G.A.T.E.WAYS Grand Prix. You will learn about effective design features, follow instructions to design a race car and use iPads and Wedo app to program your vehicle to compete in the race.

PLAYING WITH THE WIND

WITH JO BAKER

There is nothing like the feel of a kite tugging on the end of a line as a gust of wind sends it looping, swooping and soaring through the sky! In this workshop we will explore the science behind how a kite stays afloat amongst the clouds, what impact the different shapes of kites have on how they catch the wind, and how kites have been used around the world. Make and decorate your own diamond kite and finish the session by launching it into the sky so it can play with the wind.

THE MYSTERY OF THE MISSING STORYBOX

WITH ANNETTE SUBHANI

The Queen's storyteller has lost the story box that contains all the secrets of telling a great story. The King of a neighbouring kingdom is coming to visit tomorrow and must be impressed with an extraordinary story. The storyteller needs your help to create this story by completing a series of crazy and ridiculous word and story puzzles that need to impress both the King and Queen! If not, it will be OFF with his head! If you can 'spin a good yarn', solve word puzzles and unlock writing mysteries that will have you double-guessing at every turn, come and be ready to work with other students to save the day – oh, and hopefully find the missing storybox.

SOMEWHERE OVER THE RAINBOW

WITH LEANNDIA READ

Tragedy! Disaster! Catastrophe! Shades of black and grey descend upon us as colour fades from our surrounds – how did this happen? There's only one way to get it back - knowledge is power, so if we can understand where colours come from, how we perceive them, how light is involved in seeing them, and, most importantly, how we can create them ourselves, we may just be able to recover the seven colours of the spectrum before we're stuck in this drab reality forever. In this workshop we'll explore reflection, refraction, absorption, wavelengths and photons, and use our findings to help conjure up our own rainbows with sunlight and water, as well as some other unusual substances. It's a race against time to find those missing colours and restore our world to its usual vibrant self! **Please bring a small handheld mirror.**

THAT'S CLASSIFIED!

The animal kingdom is incredibly diverse, with an estimated 7 million animal species living on planet earth. How in the world do scientists make sense of it all? In this hands-on workshop, we'll explore biological classification of animals, learning about the different animal phyla and their identifying features. Put on your lab coat, safety goggles and thinking caps as you rotate through 'classification stations' and examine descriptions, photographs, and fossil evidence, then use your scientific powers of observation and analysis to classify, compare and sort animals, deduce relationships between species, create family trees and more! Can you tell your mammals from your molluscs?

WITH BOBBIE O'BRIEN

HELP! MY MUMMY IS A PHAROAH

Niles is just like any other kid at school who has to do an assignment on Ancient Egypt... but when he arrives home to find that his whole family has actually *become* Ancient Egyptians, things become more pointed than the Great Pyramid of Cheops. His dad is a mummy, his mummy is a pharaoh and Tiddles his cat is now a god. To set things right, you will have to help Niles solve the hieroglyphs, learn about life in Ancient Egypt and decipher some mathematical mysteries (the way the Egyptians did in the past) in order to bring his family back from the edge of antiquity. It's time to put on your Sphinxing caps!

WITH PETE WOLSTENHOLME

ICE COLD LIFE

With all the problems the world faces with global warming, it's easy to forget that many parts of the world are still so cold that most life would perish there. Come and explore four of the Earth's frozen regions; the Arctic, the Antarctic, the highest mountains, and the abyssal deeps! All are bitterly cold, but there is also the crushing pressure, the lack of oxygen, or endless ice fields. Yet life survives – and thrives! Discover the secrets of ice-cold life, and create a beautiful portfolio of earth's most amazing animals. Students will be required to bring lead and coloured pencils, erasers and any other writing and drawing materials they might like to use, and sketch pads and/or note-books. Note: NO clip-together pens please – they are very distracting!

WITH ANDREW PLANT

A CAVALCADE OF CATS

This totally paw-some workshop looks at the role cats play in literature, and how fabulous felines tread the fictional catwalk to leap from classic to contemporary pages with tail-curling adventures and personalities. We'll meet heroes like The Cheshire Cat, Crookshanks and Mrs Norris, Orlando, The Ship's Cat, as well as some of the colourful cast from *Old Possum's Book of Practical Cats* by T S Eliot, before creating our very own cat characters and bringing them to life. Did you know the best way to write about cats is to think like a cat? I'm not kitten around! Get ready to sharpen your claws as well as your pencils!

WITH REBECCA FRASER

AESOP'S ADVENTURES IN FABLELAND

What happened when the singing grasshopper met the bookish ant? Why don't foxes like grapes? These aren't the start to jokes – they're the ideas behind the really, really old stories originally told by the Greek slave Aesop (and retold by many others for the last two thousand years!). Remember the story where the tortoise and the hare had a race, and the tortoise won? What about the story of the crazy goose who laid a golden egg every day? Aesop was SO GOOD at telling and acting out these stories – and many, many more – for his master that after hearing him in action he granted Aesop his freedom. In this workshop we'll explore how Aesop wove life lessons into entertaining stories and why they've survived the test of time before trying our hand at creating our own. Will your story-telling skills prove to rival Aesop's uncanny abilities?

WITH MEGAN DREDGE

GAME OVER LITTLE ANT

Ready Player One... the game is yours; you're set to win! All you have left to do is squish that pesky enemy, Little Ant, who stands between you and victory! The screen is blinking. Press X to continue. Time is running out! Your friends cheer you on as they watch over your shoulder - the choice is easy, right? But maybe the answer isn't so clear. Just as your finger is about to hit the button, a speech bubble appears. Little Ant is trying to reason with you! Can he change what you will do? During this workshop we'll explore the range of puzzling philosophical questions this choice presents. Is there always a right and a wrong choice? Should all creatures be treated the same? Or maybe only some? Do we have obligations to non-human animals? Can we really know how other living things feel? What have other philosophers had to say? Armed with your newfound knowledge, we'll embark on a philosophical quest to solve these dilemmas. To press X, or not to press X, that is the question... are you ready to play?

WITH CARLEY TONOLI

IT'S A PETITE POETRY PARTY

Imagine being able to write a record-breaking twenty amazing poems in one day – that's definitely something to celebrate! Did you know a poem can be as tiny as two words long (if you get the title right!)? During this workshop, we'll write a stack of little poems - maybe even as many as twenty – but that's not all! After we've composed our masterpieces we'll look at how to best share these teeny tiny creations both on the page and on the stage so others can revel in our amazing creativity as well. Join us for a petite poetry party!

WITH CAM SEMMENS

IT'S A SUPERHERO SONIC SOLUTION!

WITH CARLA MAXWELL

In the Marvel universe, Spiderman uses the Stark Sonic Cannon to send out dense, very focused sound waves to disable his opponents. Black Widow uses her 'widow's bite' wristlets to do something very similar. But is this supersonic technology so far-fetched? Maybe not! Join us as we learn about the ways in which sound waves can be used as a defence in our world, and then use Arduino electronics to build and program a sound producing circuit with variable pitch (frequency) and volume (amplitude). Your spidey senses should be tingling in anticipation!

HELP! WE'RE IN A STICKY SITUATION!

WITH MAUREEN FRITH

One afternoon, while Justine and Perry are on a holiday camp, they wander off into the woods and become lost – whoops! Upon finding a narrow, bumpy road they follow it until they find themselves passing a sign that reads 'Welcome to Gummy Town' and come to a little village. What a strange sight meets their eyes - everywhere there are people attached to trees, bound to buildings and fastened to fences – in short, stuck to everything! Can you help Justine and Perry find out what happened to the people of Gummy Town? Was it cohesion, adhesion, gravity, electrostatic electricity, magnetism or friction that has them stopped in their tracks? In this workshop you will conduct experiments to see how these forces stick things together and help Justine and Perry rescue the Gummy Town residents.

MARS HERE WE COME

WITH KEVIN TAYLOR

The Zolo Electronics Company has been asked to design an electronic security and safety system for the Mars Colonisation Project Space Transporter. Thanks to your outstanding innovation and creativity, you have been selected to join the elite development team to design new ways of docking the spaceship securely, loading cargo, securing doors and detecting foreign metal on the Transporter's next trip to the red planet. Using LogiBlocs, and some logic of our own, we'll explore the world of electrical engineering while experimenting with circuitry, inputs, outputs, and sources of power.

BUBBLE TROUBLE

WITH STEPHANIE AXON

Everybody loves bubbles - they are a source of fascination and fun for children and adults alike. We marvel at the beautiful iridescent surfaces, their precise spherical shape, their fragility and the buoyancy of soap bubbles. But bubbles are very curious scientifically and hold many scientific secrets. In addition, their ability to find the smallest surface area between points or edges can even help to solve complex mathematical problems of space. In this hands-on interactive workshop, children will explore the science of bubbles, investigating how they work, the scientific principles behind them and the amazing things we can do with them. Children will advance their scientific thinking and develop a whole new appreciation for the humble bubble - nature's own little mirror balls of physics!

AROUND THE BODY IN 60 SECONDS

WITH JO DAVIS

Yup, that's how quickly your blood rushes around your body, keeping you alive! Today we're going on a mission to learn about blood and arteries, why the heart beats over 60 times per minute, and how the inside of your lungs could cover the area of a tennis court. During this journey we'll use a microscope to look at the different types of cells in blood and how they can protect you against getting sick, and find the answer to the perplexing question of why our blood looks red. Then put on your lab coats – it's time to get messy as we make models of some of the most important organs in our body and perform experiments to learn about gases in the blood. We'll even make some "fake" blood to take home. Be prepared for a workshop guaranteed to get your blood pumping!
Please bring an art smock or old shirt.

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

GATEWAYS 25 years of
inspiration
and challenge

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