

GATEWAYS FESTIVALS

G.A.T.E.WAYS has pleasure in inviting gifted and talented

Year 5, 6 and 7 children to a 'FESTIVAL OF WORKSHOPS'

at Canberra Grammar School, Alexander Street, Red Hill

MONDAY 1 JULY AND TUESDAY 2 JULY, 2019

PROG	Monday 1 July 2019	PROG	Tuesday 2 July, 2019
1	TALKIN' TOLKIENS – WHO LET THE MONSTERS OUT? (L)	1	A PLAGUE OF CLICHÉS & OTHER WRITING CATASTROPHES (L)
2	ROCKING AND ROVING ON MARS (T)	2	LOOK OUT SIRI, WATSON, CORTANA- NEW CHAT BOTS COMING! (T)
3	RESCUE MISSION – SECRET AGENT FILES 1 (S)	3	PLANE PANIC!! (S)

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

Please choose one program only. Workshops cannot be mixed and matched. Do not choose the same workshops both days.

The fee is \$110 per day.

Enrolments open Monday, 13 May

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

FESTIVAL WORKSHOPS

9.15am – 3.00pm (registration from 8.30)

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.

TALKIN' TOLKIENS – WHO LET THE MONSTERS OUT? with Kim Edwards

Fantasy writer and medieval historian J. R. Tolkien created some of the most amazing creatures the world had ever read in his novels *The Hobbit* and *The Lord of the Rings*, and the literary adventure of getting lost in his mythic and magical land, with his marvellous monsters and astonishing characters, will excite and inspire every reader who wants to be a creative writer! Are you ready to trade riddles with the mysterious Gollum, decode the secrets of the Elf language, breath fiery life into a dragon like Smaug, and hang out with fierce dwarves, mystical wizards and lovable hobbits? Come discover what mythopoeia is as we use Tolkien's creative creatures as inspiration to invent, design, draw and write about some imaginative beasts of our own!

ROCKING AND ROVING ON MARS with Sanjin Dédic

Since the very beginnings of our species, humans have had an instinct to explore! And that exploration has always been aided by technological advances – transport advanced from wagons and rafts to ships and plane, for example. In the 21st century, technology is getting smarter. The building block of this intelligence is a micro-chip called a microcontroller. In this workshop we will program the most powerful educational microcontroller out there, **the BBC micro:bit**. We'll learn how to program micro:bits with block code, sense button presses, sense tilt from the accelerometer and we'll display various images on the screen. We will then combine two micro-bits, one acting as the robot brain and the other as a controller to drive our robot around an obstacle course. Once we have done that, we will face the eternal problem that NASA engineers have every time they explore a moon or a planet, the fact that large distances make navigation by remote control impossible. We will tackle this by writing intelligent programs that use our robots' sensors to sense obstacles and navigate an unpredictable terrain to arrive safely to a navigation point.

RESCUE MISSION – SECRET AGENT FILES 1 with Stephanie Axon

There's an international villain in your midst. The infamous Dr. Ron Ganser is rumoured to have entered the country under an alias. Dr. Ron Ganser has one mission. To rob the World Bank of all its money with the invention of his formidable weapon, a weapon of mass deduction. Our sources have revealed that Dr Ron Ganser is disguised as a delegate attending the World Bank Annual Meeting to be held in just 24 hours. As a secret agent working for Mi5, your mission, should you choose to accept it, is to reveal his identity and intercept him before it's too late. It's a race against the clock as you attempt to piece the puzzle together, and as you sift through clues including fingerprints, mysterious particles, coded messages and mathematical network problems. This is a hands-on mission that's going to put your forensic science, maths and problem-solving skills to the test. Will it end with the mission accomplished or is it really mission impossible?

PLAGUE OF CLICHES AND OTHER WRITING CATASTROPHES with Kim Edwards

Lots of people may not realise how dangerous and daring capturing a wild story can be, but all good writers know the many pitfalls and perils we face in trying to get those elusive words safely onto the paper! Welcome to your very own creative writing survival program, as we navigate daringly between the dizzying heights and tremulous depths of storytelling, from scaling the cliffs of creativity and exploring the origins of originality to scouting the swamps of stereotypes and bridging the bogs of the banal... Learn how to spot a cliché at twenty paces, plot a meaningful monomyth, ambush a Mary Sue, dodge Chekov's gun, resist the lure of a McGuffin, and defeat a deus ex machina! May your pen prove mightier than a sword, and your paper be black and white and read all over, for this will be a creative writing adventure like no other! Arm yourself with a new writing book, a trusty pen and a loaded pencil case, and prepare yourself with strong imagination and determination to overcome all challenges...!

LOOK OUT SIRI, WATSON, CORTANA- NEW CHAT BOTS COMING! with Sanjin Dédic

If you have ever talked to a robot, it was probably over the phone and you most likely did not have a very exciting experience. We are here to change all that forever! Using Python, we are going to create a series of chat bots, initially entirely programmed by us and then escalating to include wonderful features such as machine learning and natural language processing. The chat-bots will be able to understand mood (happy vs sad) and human interactions. They will be upgraded with some machine learning to understand a topic of our choice! Best of all when we are done, you will have online access to your chat-bot and you will be able to share it with your friends and parents.



PLANE PANIC!! with Alison Brennan

Acrid Air, Flight 000 has taken off from Canberra to London. About thirty minutes into the flight, three of the passengers start to feel unwell. They complain about feeling sick, dizzy and having muscle aches. Five minutes further into the flight there are ten more unwell passengers. The senior flight attendant calls the cockpit, only to discover that the Captain is also sick. This is now an EMERGENCY! The co-pilot turns the plane around to return to Canberra, informing the airport of the unfolding situation. Can you help discover what has happened? You and your team are working for the Department of Health. This situation needs to be contained, controlled, and then investigated so that similar incidents can be prevented in the future. This program will take us on a microbiological journey, focusing on pathogens and epidemiology. In this fun, fast-paced and hands-on program students will develop research, teamwork, and practical scientific skills.

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



GATEWAYS 25 years of
inspiration
and challenge

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