



Learning Labs

Years 7-10

2 DAY WORKSHOPS

6 - 7 JULY 2023

CREATIVE WRITING FOR BEGINNERS AND BEYOND

PRESENTER: Peter McLeod and Gabi Sproule | Years 7-10

CREATIVE KIDS VOUCHER ACCEPTED

The basis of a powerful contemporary writing style lies in using language in a fresh and innovative way. This practical, hands-on workshop gives you dozens of techniques to use, regardless of the medium you're most interested in. Special attention is given to short story, short film, poetry and theatre writing. This workshop is suited to both smart beginners and committed writers.

HISTORY - WEIRD, WILD CONSPIRICIES

PRESENTER: Dr. Stephen Brown | Years 7-10

What's your theory on the assassination of JFK? Was Marilyn Monroe's death as it seemed or was there a cover up by the FBI and the government? In this workshop we'll be looking into some of the most famous conspiracies and unpacking why and how conspiracy theories actually emerge. Even in the face of strong evidence, why do some people continue to believe wild and wacky conspiracies as fact? It's time to find out.

PALAEOART: A NEANDERTHAL MAN

PRESENTER: Dr Susan Hayes | Years 7-10

CREATIVE KIDS VOUCHER ACCEPTED

Neanderthals were large brained and highly skilled tool makers, that lived across Eurasia from about 400,000 to 40,000 years ago. Referencing a detailed, scaled outline of the skull belonging to a Neanderthal man excavated from Shanidar Cave in north-eastern Iraq, this drawing workshop will show you how to apply soft tissue depths, estimate the locations and shapes of the facial features, and build up the facial appearance using sheets of tracing paper. All skill levels are welcome, no previous art experience required.

IMAGINE 1000 IMPOSSIBLE THINGS BEFORE LUNCH: A VISUAL ARTS WORKSHOP EXPLORING SURREALIST ART

PRESENTER: Samantha Arnull | Years 7-10

CREATIVE KIDS VOUCHER ACCEPTED

Surrealist artists make usual or impossible things happen in their work. You will learn to think like a Surrealist by making a series of works with paper & 3D collage by exploring the symbolism and practices of the Surrealists! Create an Automatic drawing, an exquisite creature drawing, 3D collage diorama and a blot Decalcomania print. Expect the uncanny, the unconventional, let your unconscious dreamy imagination flow by disappearing into your unconscious to make Surrealist Art.

INTRODUCTION TO BUILDING VIDEO GAMES

PRESENTER: Alexander Kelly & Tristan Taylor | Years 7-10

CREATIVE KIDS VOUCHER ACCEPTED

Video games have become one of the most popular forms of entertainment across the globe. A flexible medium, Video Games allows the player to experience things that would not be possible in any other medium. But have you ever wondered how video games are built, and what goes into building one? The workshop is a crash-course introduction into the world of game construction. You will learn about how video games are produced, by constructing your own game! Learn to draw your own game art, create your own special effects, and of course tie it all together with some programming.

ART LAB OF THE FUTURE

PRESENTER: Tamara Gulic Phoenix | Years 7-10

CREATIVE KIDS VOUCHER ACCEPTED

Did you know that scientists are making bricks out of mushrooms, growing cement using bacteria and are creating bioplastics, safe for fish to eat? This workshop will be a deep dive into the latest research on bio friendly materials that can be used for building or art making. You will be given an array of natural materials to experiment with, like natural pigments, bio polymers, clay, seaweed, dry flowers and others. The discoveries you make today, might change the world in the future.



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BUILDING WITH BLENDER

PRESENTER: Lost Night Studios | Years 7-10

CREATIVE KIDS VOUCHER ACCEPTED

Want to design spaceships, or help make animated films and video games? In this class, you'll learn technical computer skills and create your own 3D models, a skill which you can continue to practice at home thanks to Blender being freely available for download.

CONNECTING THE WORLD SECURELY: CYBER SECURITY WORKSHOP

PRESENTER: Devika | Years 7-10

NON-STANDARD FEE - \$200

CREATIVE KIDS VOUCHER ACCEPTED

In this workshop students will learn the basics of modern day communications and how to build computer networks using a number of techniques. In addition to this there will be a deep analysis of cyber security and how to apply cyber principles into such environments so they can protect us from online threats!

BEFRIENDING A DRAGON: EXPLORE THE WORLD OF TABLETOP ROLEPLAYING & BOARD GAMES

PRESENTER: Lost Night Studios | Years 7-10

Come meet new people and complete quests, while playing tabletop roleplaying and board games. You will be exploring a range of board games and social games with each focussing on a particular skill (such as teamwork, communication, critical thinking, management and puzzle solving skills).

MYTHBUSTING PHYSICS

PRESENTER: UOW Physics School | Years 7-8

Are you interested in what physics is and how it influences our everyday life? Have you seen things in movies that you suspect are impossible? Starting with some movie clips, we'll look at common misconceptions and physical impossibilities, before getting to grips with the real physics. You will carry out experiments and take part in demonstrations, learn fundamental physics concepts, and work out what the movies ought to have shown. This very hands-on workshop will focus on two key areas of physics - mechanics and waves.

3 DAY WORKSHOP

5 - 7 JULY 2023

CUBESAT CHALLENGE FOR YEAR 7 & 8

**PRESENTER: School of Electrical, Computer and Telecommunications Engineering
Years 7-8**

NON-STANDARD FEE \$200

Are you interested in satellite and space systems? Want to build your own miniature satellite (CubeSat)? Join the School of Electrical, Computer and Telecommunications Engineering at the University of Wollongong for the CubeSat Challenge. Sponsored by the AustSTEM Foundation this workshop invites students to participate in an intensive, fun-filled 3 day workshop designing, constructing, programming and launching a CubeSat using a drone.



Learning Labs

Years 7 - 10

THE MAD CHEMIST

PRESENTER: Roza Dimeska | Years 8-10

If you are curious about science and particularly in chemistry, have a desire to work in a chemical laboratory or are planning on doing a science degree, then this workshop will be great for you. This hands-on workshop will provide opportunities to perform interesting experiments in a safe environment that will explain some chemical theories, provide introduction to chemical techniques that are used in the industry and give you an opportunity to be the Mad Chemist!

HOW COMPUTERS THINK

PRESENTER: Ashley Heath | Years 7-10

CREATIVE KIDS VOUCHER ACCEPTED

Computers rule our lives, yet most of us have no idea what makes them tick. In this workshop you learn about basic circuits, adding and subtracting binary numbers, analysing logic diagrams, and how to write basic programs. You will learn this skill through lots of easy and fun hands-on activities. The final activity will have you writing computer code to control lights, motors, buzzers and mini screens.

HEARTBEATS, BREATHING AND BONES: ANATOMY OF THE HUMAN BODY

PRESENTER: Theresa Larkin | Years 7-10

If you are interested in the human body and how it functions, or are thinking about a career as an exercise scientist, nurse, doctor or health researcher then this workshop will be a fantastic introduction. You'll be introduced to the Anatomy lab to learn about muscles, and the heart and lungs. We will also examine bones and the skeleton, and cardiovascular function in the Physiology lab.

REAL WORLD ARTIFICIAL INTELLIGENCE

PRESENTER: Devika | Years 7-10

CREATIVE KIDS VOUCHER ACCEPTED

ChatGPT has taken the world by storm. In this workshop learn how you can use free software to identify and respond to situations like a human. You will learn the basics of AI and put them to use using a number of commonly available tools.

1 DAY WORKSHOPS

5 JULY 2023

PALAEOART: MEET A CAVE WOMAN

PRESENTER: Dr Susan Hayes | Years 7-10

CREATIVE KIDS VOUCHER ACCEPTED

In this hands-on drawing workshop you will be introduced to some of the essential steps in undertaking a 2D facial reconstruction. This involves layering sheets of tracing paper over a detailed, scaled outline of the skull, and results in giving a face to a young woman who lived 13,640 years ago – and is currently the oldest human burial to be excavated from the north-western Highlands of Thailand. All skill levels are welcome, but a capacity for focussed participation is essential.

SMART PHONE FILMMAKING

PRESENTER: Peter McLeod | Years 7-10

CREATIVE KIDS VOUCHER ACCEPTED

Steven Spielberg famously learned his craft working with his father's Super 8 camera. It was rare in those days to have access to a camera of that quality, and Spielberg used his advantage to learn his craft. Today, the camera attached to your phone is so much more powerful than a Super 8, it's almost a joke. With some basic apps, you can film, edit, colour grade, and publish a professional looking, 4k film! It all comes down to what you know when you're holding the camera.

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1 DAY WORKSHOPS

STAY CONNECTED WITH LEARNING LABS