



UNIVERSITY
OF WOLLONGONG
AUSTRALIA

—
Outreach & Pathways

Little Learning Labs & Mini-Labs Workshops

JANUARY 2019

SEE BELOW FOR ONE AND TWO DAY WORKSHOP DESCRIPTIONS

2 DAY LEARNING LABS WORKSHOPS - 7 & 8 JANUARY



3D Printing for Little Labbers

Presenters: Ben & Heike Roberts

3D Printing allows you to make unique designs in CAD and then print them. Have you got a T-Shirt Design you would like to turn into a unique 3D Printed stamp? This is the workshop for you.

What you will do on the day:

- Design your stamp on paper
- Transfer and build your design into an STL file using cloud-based software
- 3D Print your unique stamp
- Use fabric paint on your unique 3D Printed stamp to print on your T-Shirt.
- Create your own design of a pen topper and print it if time allows.



Exploring Ancient Egypt

Presenter: Maria Matic

Have you ever wanted to explore the world of the Ancient Egyptians? Come on an adventure down the Nile and explore Ancient Egypt's fascinating pyramids, powerful Pharaohs, rich culture, intriguing traditions and society to see what life was like in Ancient Egypt.

Learn hieroglyphics and learn about the gods and goddesses, the beliefs of the Ancient Egyptians and what they believed happened in the afterlife, the mummification process and the role amulets and keepsakes played.

In this workshop, students will be immersed in the Ancient Egyptian culture, make their own pyramid and learn about all things Egyptian.



Hola! Let's Speak Spanish

Presenter: Sara Del Rio Garcia

¡Hola amigos! Did you know that many children around the world speak more than one language? Wouldn't you like to be one of those lucky children?

In 'Let's speak Spanish' you will learn the Spanish words from a variety of topics, but you will learn much more than just new words - you will discover a whole new world. We will use songs, games, dance, art and drama to introduce you to Spanish culture and also begin you on the journey of learning the beautiful Spanish language.

This workshop designed for children who are new to the Spanish language, so everybody is welcome. Our workshop will open the door to new ways to express yourself and learn more about the beautiful world in which you live.



Masters of Minecraft

Presenter: Devika

The Minecraft workshop is set out to develop the students understanding and fluency in maker skills through the creative and building aspects of Minecraft which enable players to build constructions out of textured cubes in a 3D procedurally generated world.

Students will learn about enquiry, exploring and connecting mathematical concepts, choosing and applying problem-solving skills, mathematical techniques, communication and reasoning. This course is for students taking their first steps with game design and development for primary kids.



Computer Science Unplugged

Presenter: Alanna Vial

Do you think programming a computer is magic? Are you curious about how computers work? In this workshop, you will learn the secrets of coding without a computer, in a fun and interactive environment. Gain problem solving skills by solving logic puzzles, working in teams and learning about essential concepts in computer science at the same time.

Learn how to count and write your name in binary, understand parity and error correction and write pseudo-code. We will teach you how to do magic tricks using these computer concepts, and then you will get to create a game using code and an online learning environment called Scratch.



Genie-In-Us

Presenter: Patty Rose

Is your genie from Genie-in-us ready to play? The great news is that everybody can think and everybody can solve problems. So you are already qualified for this funshop!

If you have a bright imagination and like to create things then come and release your very own genie-in-us by using the magic of creative and critical thinking to solve mysteries and grant one wish.

Using some fun techniques we will be learning some creative brainstorming strategies, ways to think on the spot and work together to design and make fantastical creatures to feature in your own imaginative World (like Pok-e-mon meets Minecraft) where anything is possible and winning is by helping others.



Introducing Physics

Presenter: Lorna Jarrett

Why is the sky blue? What makes colour? Why does the moon change shape? What's the difference between hot and cold?

These are all questions that physics can answer. Physics is the science that explores forces, energy, how objects move, electricity, magnetism, sound, light, heat, and how solids, liquids and gases behave.

In this workshop we will explore all the questions above, and lots more - with hands-on activities, role-play, demonstrations, model-making and interactive computer applications. As part of the workshop, you will be invited to send in your own physics question for us to explore.



Mix it Up!

Presenter: Deniz Ahishali

In this workshop we will explore the very foundation of art - colour!

We will learn about colour value, tint, tone and shade, and investigate ways in which we can use colour to convey meaning and emotion. Using various art mediums such as acrylic paints and oil pastels, we'll experiment to see how colour choice can transform a work of art!

We will view artworks by famous artists Vincent van Gogh and Katsushika Hokusai to see how they can influence our artmaking.



Painting, Printmaking and Collage

Presenter: Supriya Eliezer

In this session students will enjoy learning a wide range of artmaking skills including, drawing, painting, collage, printmaking. Children will have fun and experiment with different mediums including, pencil, oil pastels, acrylics.

This class is a fun mix of basic theory with practical painting and /or sculpture with reference to some famous artist and artworks and techniques. Participants will be able to take their creative work home at the end of workshop.



Who was William Shakespeare?

Presenter: Sally Foots

Join us as we take a trip through time, back to Elizabethan England - where we meet Mr William Shakespeare and learn all about his life and the reason he's so famous! Was Shakespeare really so clever? Who really wrote all those plays? What was London like when Shakespeare was alive? Is it true they only showered once a YEAR?!

This workshop will be a combination of English, History and Drama - as we learn about the time period, read some of his plays and have a chance to perform a little ourselves!

1 DAY MINI-LABS - 9 JANUARY



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Good Vibrations- Exploring Sound & Music

Presenter: Lorna Jarrett

What causes sound?

How fast does it travel, and does it always travel at the same speed? Why do things sound different - loud or quiet; high or low-pitched? What does your voice look like? How can physics help us design musical instruments?

We will be answering all these questions and more in this hands-on workshop which will interest anyone who's a budding scientist, or musician - or both!



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Paper Play & Paper Craft

Presenter: Michelle Papesch

Do you love creating and crafting? When it comes to crafting, there's one magical material that always comes through: PAPER. Whether it's construction paper, computer paper, or yesterday's newspaper.

Participants will build on their scissor skills, fine motor skills, problem-solving skills, and learning to follow instructions. All these important skills are being learned every time a child is creating with this versatile medium. Young crafters who attend this workshop will without a doubt produce some gorgeous, dramatic and frameworthy pieces of art!



Exploring Ecology

Presenter: Carina Tobia

Are you a mini-Attenborough with a love for the natural world? If so, join us for this fun, interactive workshop!

Explore the fascinating ways plants and animals interact through food chains and food webs. Through experiments you will investigate how we impact our oceans. You will also observe unique plant and insect specimens up close to classify them like a real biologist.

You will be working in one of the University's labs so make sure you wear closed in shoes for your safety. Exploring Ecology will inspire you to see the natural world in a whole new light!



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