

Sydney Science Trail



15 August —

15 September

2020

School Program



#SydneyScienceTrail
#NationalScienceWeek

sydneysciencetrail.net.au

Live Events

Australian Museum

Professional Development – First Nations Science in the Classroom

Want to learn how to embed authentic and engaging Indigenous perspectives in science? This workshop provides an opportunity for teachers to gain an understanding and appreciation of Australia's First Nations Peoples scientific knowledge and practice.

4pm 17 August | ● Primary ● Secondary
After this session join Corey Tutt from Deadly Science for a Q&A.

Royal Botanic Garden Sydney

Professional Development: Outdoor Learning

Do you want to break down the barriers for learning outside with your students? This session explores practical ideas and helps your students develop an understanding of the benefits of engaging in real life learning.

4pm 18 August | ● Primary ● Secondary

Professional Development: Geography Outdoors

Develop a greater understanding and tips and tricks to explore the Geography curriculum outside through mapping, fieldwork and place based learning.

4pm 19 August | ● Primary ● Secondary

Professional Development: Learning through Gardening

We all know that water is essential for all life on Earth, but how can we sustainably and effectively use water in our gardens?

4pm 20 August | ● Primary ● Secondary

Completing any professional development session will contribute 1 hour of NSW Education Standards Authority (NESA) Registered PD addressing 6.2.2 from the Australian Professional Standards for Teachers towards maintaining Proficient Teacher Accreditation in NSW.

Australian National Maritime Museum

Exploring Unseen Oceans

Go live to the Schmidt Ocean Institute's Research Vessel in the Coral Sea. Learn about the exciting work undertaken onboard as the scientists and crew go deep underwater to explore previously unseen oceans.

1.30pm 19 August | ● Secondary

Underwater Robotics

Climb aboard Schmidt Ocean Institute's research vessel RV Falkor to dive down to a part of the ocean previously unexplored and learn more about its amazing underwater technology.

1.30pm 21 August | ● Secondary

Live Panels

The Big Questions of Science

Science is great at giving us answers, but even better at giving us questions! Join in on tackling some of science's biggest questions in 2020.

11am 17 August | ● Secondary

Australian Fires – Impacts and Opportunities

Did you know that ecosystems and wildfires are friends and foes? Discover why and explore one of the hottest topics in Australia right now.

11am 18 August | ● Secondary

Climate Science in 2020

The impact of climate change is too big to ignore. Learn how climate change started and the ways it will impact our future.

11am 19 August | ● Secondary

Women in STEM

Listen to the panel of incredible women scientists and discover their journey into STEM.

11am 20 August | ● Secondary

Why Science and Art Can't Live Without Each Other

Science and art are connected in more ways than you might think. Hear from scientists and artists who rely on both to produce amazing work.

11am 21 August | ● Secondary



Hosted by
DART Connections

The Sydney Science Trail is proudly supported by: ANSTO, ABC Radio Sydney, Macquarie University, University of Technology Sydney (UTS), NSW Government (Department of Education – DART Connections) and Inspiring Australia as part of National Science Week.

#australianmuseum #RBGSydney

On Demand

Australian Museum



FrogID

There's a way you can help identify where our native frogs are thriving and where they aren't, and track the distribution of the cane toad in Australia – and it starts on your smartphone.

Citizen Science Project | ● Primary ● Secondary

What Does Climate Change Mean to You?

Learn about all the ways the world's ecosystems are being impacted by climate change and what that means for the people living in those environments.

● Secondary

Museum Careers:

Conservation at the Australian Museum

Conservation is an important part of any museum. Find out how the Australian Museum's conservators take on the mammoth task of conserving the important collection.

● Secondary

Museum Careers:

Australian Centre for Wildlife Genomics

Step into the wildlife forensics laboratories at the Australian Centre for Wildlife Genomics to discover how DNA is being used to conserve Australia's unique wildlife and fight wildlife crime

● Secondary

Creative Science

Extreme Adaptations with Creative Science

Plants and animals take adaptation to a whole new level! Grab a front row seat to a science show that shares how they've been evolving for thousands of years.

Science Show | ● Secondary

Bush Blitz

Bush Blitz – Treasure Hunt

Join the Bush Blitz team on a virtual expedition to discover the plants and animals living near you. Who knows, you might even find a new species!

Citizen Science Project | ● Primary ● Secondary

Royal Botanic Garden Sydney

Adaptation Unit for Primary School Students & Teachers (accompanying Get Growing)

Introduce primary students to the exciting world of adaptation over a whole teaching unit.

● Primary

Adaptation Unit for Secondary School Students & Teachers (accompanying Extreme Adaptations with Creative Science)

Plants and animals take adaptation to a whole new level! Grab a front row seat to a science show that shares how they've been evolving for thousands of years.

● Secondary

I Spy a Wollemi

There are living dinosaurs amongst us! Help our scientists to find Wollemi Pines that have been planted all around the world. How many can you spy?

Citizen Science Project | ● Primary ● Secondary

Jackson Eather

Dinosaurs in the Sky

Join Jackson and his archaeopteryx Archie on a high-flying adventure to learn how dinosaurs evolved into modern birds and how flying works!

Science Show | ● Primary ● Secondary

Eaton Gorge Theatre Production

Get Growing

Follow four little seedlings in a puppet play adventure through the Royal Botanic Garden Sydney, and learn how they have cleverly adapted to different environments.

Puppet Show | ● Primary

ANSTO

Big Thinking Atoms

Discover the invisible world of atoms, the tiny building blocks that make up everything around us, and learn about the Periodic Table also known as the "alphabet of the Universe".

● Primary ● Secondary

ANSTO's National Science Week Hackathon

From August 14-18 join ANSTO in their National Science Week Hackathon - an immersive experience for students to problem solve real world challenges.

● Secondary

UTS

UTS Big Science Quiz

Take a whirlwind visit through chemistry, environmental biology, forensics and biotechnology with our quiz master Dr Scott Chadwick. 4 rounds each with 5 questions and a whole lot of characters!

● Primary

Forensics: Who did it?

Solve a case and get a real taste of crime scene investigation by learning forensic techniques used by forensic scientists to collect fingerprints, analyse a crime scene and examine clues.

● Secondary

Macquarie University

Rock Detectives

Rocks are not only beautiful, but tell amazing stories! Take a field trip through Sydney to learn how to read the stories found within the city's incredible geology.

● Primary

Coding Done Right

What's the right way to approach a programming program? We'll take you through a demonstration to help you understand how to break down any problem and base your solutions on reasoning and logic.

● Secondary



Centre of Excellence in Agricultural Education

Protected Cropping Research and Development: Food Security and Adaptability

Equip yourself with this fully integrated teaching unit on protected cropping and the role of scientific research in the future developments of the horticultural industry in Australia.

● Secondary

Pearl Farming in NSW: Broken Bay Pearls Case Study - Adaptability in Aquatic Farming

Dip your toes into the exciting emerging industry of aquaculture and learn everything there is to know about the adaptation of pearl oysters and farm production to local environmental and climatic conditions.

● Secondary

UNSW Sydney

Centre for Ecosystem Science, School of Biological, Earth & Environmental Sciences

Environmental Recovery Project

Take a look at the gradual reappearance of all the different plant and animal species emerging after this year's mega-bushfires.

Citizen Science Project | ● Primary ● Secondary

Fizzics Education

The Deep Blue

Dive into the science of the sea and explore the weird and wonderful ways sea creatures have adapted to their environment.

Science Show | ● Primary ● Secondary

This program schedule is current at time of production and may be subject to change.