

Sydney Science Trail



Schools Program 15-19 August 2022

Celebrate National Science Week with your school at the annual Sydney Science Trail, returning live and onsite at the Australian Museum and Royal Botanic Garden Sydney this August. Now in its third year, Sydney Science Trail offers a jam-packed program of excursions for primary and secondary students of all ages and explores the role science plays in shaping our lives.

Sydney Science Trail is a unique opportunity for your students to experience, think and talk about the science conducted at both organisations - from the study of the natural world and research into the effects of climate change, to the exploration of the environmental knowledges of First Nations Peoples. Don't miss out on this celebration of all things science! Explore the full excursion program and book your spot below.

Secondary schools: Monday 15 - Tuesday 16 August

Primary schools: Wednesday 17 - Friday 19 August

Location: Australian Museum and Royal Botanic Garden Sydney

Cost: \$18 (incl. GST) per student

Cost per student provides entry to three activities on one day: the Sydney Science Trail Expo, a workshop of their choice, and either a science show or a panel discussion.

Secondary Schools Program

Monday 15 & Tuesday 16 August

Students will attend three activities across one day: the Sydney Science Trail Expo, one workshop and one Panel (Monday) or Show (Tuesday)

Sydney Science Trail Expo

Celebrate National Science Week and have your students' burning questions answered by experts from over 20 research organisations and universities! Wander through our Science Expo stalls and chat citizen science, frogs, fossils, medical research and more - even ask our scientists about their career paths. Ignite your students' love for science by giving them the rare opportunity to touch base with real-life scientists, undertake experiments and get hands-on with cutting-edge innovations.

Panel Discussions (Monday - pick one)

Climate Change: Impacts on Sydney and what we can do

Hear from inspiring and insightful thought leaders about the impacts of climate change on Sydney and our health, and what we can do about it.

Women in STEM: Leading in the field

Hear from women leading in their fields of STEM research, and find out about the career journeys that have brought them to where they are today. You'll learn about their inspiring fieldwork adventures, from supporting community-driven archaeological projects, to exploring the vulnerability of native plants to climate change and describing new fossil species.

Careers in STEM: Science Communication

There's never been a more important time for science communication and finding creative and exciting ways to engage everyone in science. Join our panel of passionate science communicators to hear about their career journeys and be inspired by their contagious enthusiasm to make science accessible for all.

Street Science Show (Tuesday)

Get fired up for some seriously explosive science with Street Science! Experience a range of roaring reactions as we investigate fuels - past, present and future, before dropping the temperature with the mind-bending properties of liquid nitrogen.

Bookings: rbgsyd.nsw.gov.au/Sydney-Science-Week

Enquiries: programs.info@botanicgardens.nsw.gov.au

Workshops (pick one)

Bush Foods

Discover the culinary delights that can be found in a native garden! In this workshop led by a First Nations guide, students will tour the Cadi Jam Ora garden to explore different types of plants used and eaten by Aboriginal people of the Sydney region and learn how they prepare them.

Nature by Numbers

Tree-gonometry, anyone? Numbers are everywhere in science and horticulture! Students will apply maths and science to the outdoor classroom of the Botanic Garden and discover how these skills are useful in science and horticultural careers.

Who did it? Forensic Science

Explore what it's like to be a forensic investigator and use scientific applications to solve crimes. Students will participate in a mock case scenario and learn how to dust and collect fingerprints, analyse bloodstain spatter and manage a crime scene, with the aim of building a solid case for the court of law. This interactive workshop is facilitated by the University of Technology Sydney, Faculty of Science.

Weighing Giants

Dinosaurs are well known for their enormous sizes, and indeed they include the largest animals ever to walk the earth. But how do we know how heavy they were? This activity combines palaeontology, mathematics, physics and biology, using an age-old technique to estimate just how large these amazing animals once were! This interactive workshop is facilitated by the University of New England's Discovery Program.

Sydney
Science
Trail



Primary Schools Program

Wednesday 17, Thursday 18 & Friday 19 August

Students will attend three activities across one day: the Sydney Science Trail Expo, one show, and a choice of one of four workshops

Workshops (pick one)

Bush Foods

Discover the culinary delights that can be found in a native garden! In this workshop led by a First Nations guide, students will tour the Cadi Jam Ora garden to explore different types of plants used and eaten by Aboriginal people of the Sydney region and learn how they prepare them.

Investigating Invertebrates

What do an earthworm, a clam, an octopus and a butterfly have in common? None of them have a backbone! Explore the diversity of invertebrate animals and learn how and why scientists research and classify them. Led by Australian Museum educators, students will gain an insight into the Museum's vast invertebrate collection, engage in the complexity of life cycles, and discover how the environment can affect the growth and survival of invertebrates around Australia.

Native Bee Hotels

The Sydney area hosts over 200 amazing native bee species, vital for pollination and ecosystem function. Learn about these amazing pollinators before getting hands-on in a workshop creating your own bee-hotels for your school.

Survive and Thrive

Examine a range of plants in contrasting rainforest and arid environments and learn about the amazing adaptations that allow them to grow and survive. Students will conduct a scientific investigation to connect the physical conditions in which plants live and their ability to thrive.

Sydney Science Trail Expo

Celebrate National Science Week and have your students' burning questions answered by experts from over 20 research organisations and universities! Wander through our Science Expo stalls and chat citizen science, frogs, fossils, medical research and more - even ask our scientists about their career paths. Ignite your students' love for science by giving them the rare opportunity to touch base with real-life scientists, undertake experiments and get hands-on with cutting-edge innovations.

Shows (pick one)

Big Science Big Fun

This 'science sampler' stage show explores a range of science concepts through visually exciting and engaging experiments. See giant bubbles, fire-balls, flying toilet paper, hair-raising electricity, coloured shadows, liquid nitrogen and more!

Science Space

Witness some truly 'cool' experiments using liquid nitrogen, see a brave volunteer put inside a giant bubble, and be dazzled by science in this engaging and interactive live science show that covers a range of different scientific topics.

Bookings: rbgsyd.nsw.gov.au/Sydney-Science-Week
Enquiries: programs.info@botanicgardens.nsw.gov.au

Sydney
Science
Trail

