



## Welcome to STEM Day Out at Science Alive! 2021

### On Arrival

STEM Day Out is held in the Wayville Pavilion at The Adelaide Showgrounds.

Student group entry is via the carpark entrance off Rose Terrace or the Goodwood Road entrance (follow all directional signage).

Register your school's arrival with Science Alive staff at the entry/s to the Atrium.

Total number of students in attendance together with total group size will be requested.

### COVID-19

- All teachers, support staff, volunteers and carers will need to scan the SA Health QR check-in code as legislated by the South Australian Government.
- All people over 12 years of age will be required to wear a **mask** inside pavilions as mandated.

### Teacher PD Session



### Finding STEM In the Science Curriculum

This is a FREE Teacher Professional Learning Workshop for teachers attending the STEM Day Out at Science Alive provided by SASTA

The goal of the workshop is to provide teachers with a simple, practical process for implementing meaningful STEM challenges in the Science classroom. Teachers will explore exemplar tasks that incorporate engineering practices and design processes. The tasks and resources aim to give teachers the experience and support they need to plan and deliver STEM focussed lessons that highlight the design thinking required in engineering.

This structured approach will provide teachers with a clear process and a wealth of resources for implementing an effective STEM teaching and learning program.

Registration is available for the morning and afternoon session. Bookings are essential.

To register, book via [this link](#) for the morning session and book [here](#) for the afternoon session.

**Workshop Room: Atrium East Seminar Room**

## Activities for Students

Nitro Nat, Animals Anonymous and the RAAF are our premier show partners in 2021. These will be complimented by three challenges and the engaging passport activity.

### Animals Anonymous Wildlife Show:

With presentations designed to inspire a connection with the natural world as well as an appreciation for our unique and often fragile wildlife, Animals Anonymous engage children in a genuine, hands-on experience that leaves them with a sense of hope and knowing that they can make a positive environmental impact through biodiversity development and habitat preservation.

### Crazy Colourful Science Show by Nitro Nat:

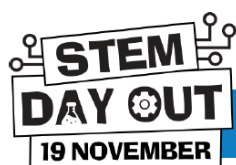
This show explores chemical reactions with lots of colours and wonder. With fire demonstrations and some mess we also tackle things changing different states of matter. This is a fantastic way to see some wicked chemistry!

All Nitro Nat shows are linked to Australian Curriculum. Download the content links [here](#)

### RAAF together with the Australian Department of Defence:

Australia's largest immersive and interactive space experience launching at Science Alive! ... Keep an eye on our website for updates as we countdown!

### Schedule:



Friday November 19

Time	Ridley South Stage 1	Ridley North Stage 2	External Stage Stage 3
0900		RAAF Bringing an "out of this world" experience	
0915		0905-0930	
0930			
0945		RAAF Bringing an "out of this world" experience	
1000		0940-1005	
1015		RAAF Bringing an "out of this world" experience	
1030		1020-1045	
1045			Animals Anonymous
1100			1030-1100
1115	Nitro Nat		
1130	1100-1130		
1145		RAAF Bringing an "out of this world" experience	
1200		1130-1155	
1215		RAAF Bringing an "out of this world" experience	
1230		1205-1230	
1245		RAAF Bringing an "out of this world" experience	
1300		1240-1300	
1315		RAAF Bringing an "out of this world" experience	Animals Anonymous
1330		1310-1335	1300-1330
1345	Nitro Nat		
1400	1330-1400		
1415		RAAF Bringing an "out of this world" experience	
1430		1400-1425	
1445		RAAF Bringing an "out of this world" experience	
1500		1435-1500	

### Passport Activity Information:

The passport competition is available for all students to enter. Your school has been provided with a blank passport to print for each of your participating students. This will give students a chance to engage with exhibitors to discuss future study and career opportunities which they might otherwise miss.

Participation in the passport activity will direct students on a journey through the Pavilions, giving them a fuller experience of Science Alive! than they may otherwise have achieved.

- Green Adelaide
- SA Museum
- Environment Protection Authority
- SA Water
- JBS&G
- Naval Shipbuilding College
- Lockheed Martin
- Department of Defence
- Army Drone Racing Team
- Micro-X
- 42 Adelaide
- KESAB

The passport also has a **competition** aspect to incentivise student involvement.

- To enter the competition, students must visit at least six participating exhibitors.
- The completed passport must be dropped into the passport box next to the Information Desk, in the Atrium.
- There will be one prize for this competition, a **Ryze Tello Drone Powered by DJI (White)**.



This prize will be drawn at the end of STEM Day Out 2021, and the prize winners' school will be emailed. The prize will be posted to the school.

A map indicating where each of these exhibitors are located as well as other sites of interest will be available on the Science Alive! website the week of the event. If you or your students have any trouble locating these or any other exhibitor during the event, please see staff at the Information Desk.

### Challenges:

This year STEM Day Out has three challenges for your students to participate in. Each challenge has a curriculum link and resource sheet available to begin the STEM investigation prior to attendance at



## Safety

In the case of accident or injury please report to the Information Desk located in the centre of the Atrium or call 0458 328 043.

If evacuation from the buildings is required, please exit via the nearest safety exit and move to assembly points at either the Ridley Gate, Goodwood Road, Eastern end of the Food Court or the Hamilton Boulevard, Western side of the Jubilee Pavilion. Please organise before the event to meet your students at either of these assembly areas in the case of evacuation.

## Food and General Amenities

STEM Day Out will be serviced by food trucks at the rear of the Wayville Pavilion and a number of cafés in the Atrium.

All areas of the venue are accessible by ramps and lifts, and wheelchair-friendly toilets are located throughout the venue. Disabled parking bays are also available.