



## Science on the Road (SOTR) Riverina Program



### Science Festival Expo

*Experience hands-on science in the SOTR Expo*

Offering an opportunity for students to have a fun interactive experience, the Science on the Road Expo draws science organizations and educational institutions together for a burst of explosive hands-on good times.

**Duration:** 30 minutes

**Capacity:** 60 students per session

**Presenters:** Charles Sturt University, Australian Museum, Code Club, University of New South Wales, Frog & Tadpole Study, Vision Australia, LaTrobe University

### CSI Forensics

Put on your forensic gear and unlock the mysteries of a comic convention crime. CSI World is a one hour workshop of exciting crime scene investigation activities using authentic materials. From fingerprints to DNA, students will retrieve and analyse evidence found on their mock crime scene. They will then decipher who did it from a list of possible offenders.

**Duration:** 1 hour

**Capacity:** 30 students per session

**Presenter** Australian Museum



### Indigenous Science & Bush Tucker

Where could you get something to cure your headache before we had pharmacies? How do you find food without a supermarket? Learn how Indigenous Australians survived tens of thousands of years before modern conveniences were available, and see how traditional knowledge compares to Western science. Come along and learn how to let the land provide for you.

**Duration:** 60 minutes

**Capacity:** 30 students per session

**Presenter** Australian Museum



### Nursing Needs You!

The mini workshop will introduce students to basic nursing skills that include effective hand washing, assessing vital signs such as pulse, blood pressures and breathing sounds.

Students will also have the opportunity to test their CPR skills using a CSU “patient” and test their anatomical knowledge in relation to the human body.

**Duration:** 45 minutes

**Capacity:** 30 students per session

**Presenter:** Charles Sturt University



### Worm Detectives

Why did Charles Darwin study worms for 30 years? What is it about these wriggly invertebrates that captivated one of the world’s greatest scientists for so long? Sharpen your scientific observation skills as you dig down and uncover the magic of worms!

**Duration:** 45 minutes

**Capacity:** 30 students per session

**Presenter:** Charles Sturt University

### Waterbug Watch

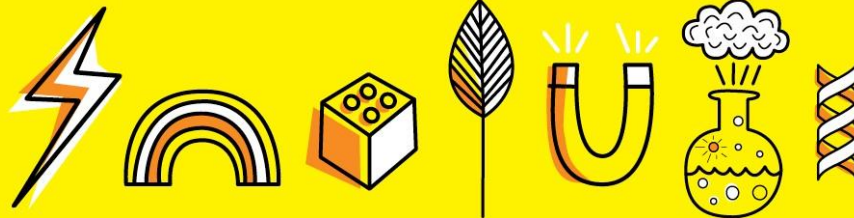
Aquatic macroinvertebrates or ‘water bugs’ are animals found in streams, rivers, ponds, wetlands and drains. They provide an indication of stream health as they spend a large proportion of their existence in the water. Students will investigate a range of water properties in the campus stream and investigate their impact on plants and animals in wetlands and streams.

**Duration:** 45 minutes

**Capacity:** 30 students per session

**Presenter:** Charles Sturt University





### Code Club

Get up to speed with the latest in computer programming! Form a team and get cracking on your own computer game, animation or website. Code Club will introduce you to programming basics using drag-and-drop tools in this fun and interactive workshop where play and experimentation are encouraged, and problems can only be solved with collaboration. Don't break the system: build it.

**Duration:** 45 minutes

**Capacity:** 30 students per session

**Presenter:** Code Club

### Volcanoes & Natural Disasters Show

Did you know that rocks move? The world as we know it has been developed by these movements through eruptions, earthquakes, meteors and tectonic plate shifts. Witness a scientific power that rocks in this interactive show and see if you can make a volcano explode!

**Duration:** 45 minutes

**Capacity:** 80 students per session

**Presenter:** Australian Museum



### Frogs, Frogs, Frogs

What is the difference between a frog and a toad? Why do frogs have different types of feet? What species live in your region and what can you do to help them survive? Find out the answers to these questions and a lot more as we explore the wonderful world of frogs. Encounter ten species of live frogs and find out if you have what it takes to be a frog and ensure the survival of your species.

**Duration:** 45 minutes

**Capacity:** 30 students per session

**Presenter:** Frog and Tadpole Study



**Starlab Planetarium**

Experience the motion of celestial objects in real time! Starlab Planetarium is back with a new digital immersive environment that takes your galaxy exploration experience to a whole new level! Travel through time and space to the outer limits of our solar system. As a bonus, get to see Melbourne Planetarium and CAASTRO's full dome presentation of 'Capturing the Cosmos', narrated by Geoffrey Rush.

**Duration:** 45 minutes  
**Capacity:** 25-30 students per session  
**Presenter:** University of New South Wales



**Chemistry Chaos**

Learn about biofuels, ocean acidification and forensics. Create carbon dioxide bubbles, be dazzled by mixtures that glow-in-the-dark, witness an impossible "clock" reaction and much more! Join the UNSW School of Chemistry for an hour of fun-filled, hands-on messing about with 'chemicals'.

**Duration:** 60 minutes  
**Capacity:** 30 students per session  
**Presenter:** University of New South Wales

**Spin Science**

Round and round we go! Why does water stay in a bucket when it is swung above your head? What is the difference between centrifugal and centripetal forces? How does an ice-skater control their speed while doing a pirouette? Come and learn the answers to these questions (and more!) as you discover more about objects that undergo circular motion! Build a spinning top so you can complete the circuit and take the motion home.

**Duration:** 45 minutes  
**Capacity:** 30 students per session  
**Presenter:** University of New South Wales





### Winnie's Cretaceous Capers

Meet a real-life (life-like) walking roaring dinosaur and think about Australia's prehistoric past as our three year old life-sized *Muttaburrasaurus* puppet Winnie strolls around campus.

**Duration:** Walk-throughs at certain times of the day

**Presenter:** Australian Museum

