

 **national science week 2022**
scienceweek.net.au 13-21 AUGUST 2022

GLASS

More than meets the eye



AUSTRALIAN
SCIENCE
TEACHERS
ASSOCIATION



national science week 2022

13 - 21 AUGUST 2022
www.scienceweek.net.au



An Australian Government Initiative



-GET INVOLVED!

GLASS

More than meets the eye

**digital teacher resource book
AVAILABLE NOW!**

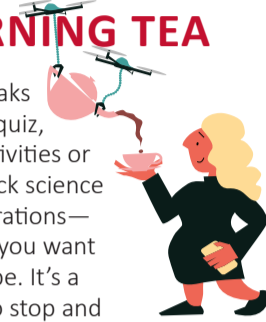
The resource book includes lesson plans for Foundation to Year 10, ideas to support students' involvement in investigating, exploring, experimenting, designing, creating and communicating their understanding about how glass is made and used and its development throughout history.

The teacher resource book is complemented by a National Science Week student journal that can be downloaded and printed.

Download the resource book for free from asta.edu.au

BRAIN BREAK MORNING TEA

Brain Breaks can be a quiz, group activities or a few quick science demonstrations—anything you want them to be. It's a chance to stop and reflect on the science in your world.



Register your Brain Break by 15 July scienceweek.net.au/brainbreak to receive a FREE National Science

Week Brain Break pack including quiz questions, activities, suggestions, coasters and other promotional items. The packs will be posted in late July for use in August.



SCINEMA 2022

From drama to documentaries, animations or epic natural history, Australia's Science Channel are passionate about the power of moving images to tell stories about the world, and our place in it. Register to host your own free screening of the best of SCINEMA International Science Film Festival. Visit scinema.org.au

SCINEMA

INTERNATIONAL SCIENCE FILM FESTIVAL 2022



3...2...1...

LIFTOFF!!!

BLAST into National Science Week

Be part of Australia's largest cooperative rocket launch. Registered groups across the country will simultaneously blast their own rocket from their yard, street, or local park. A 60-minute online video will inform participants about the science behind launching rockets. Learn the science, build your rocket, and watch it fly. That's Seriously FUN Science!

[facebook.com/streetscienceau](https://www.facebook.com/streetscienceau)

The Many Faces of Glass Poetry Blog

Can you write a poem about glass? This amorphous family of minerals has many faces. From day to day objects like mirrors and bottles to engineering masterpieces of technology. How do some withstand heat while others crack? From historical chandeliers to cutting edge chemistry & medicine, glass enhances our lives. Submit your poems by 29 July via sciencerhymes.com.au

Evaluation of Events

AFTER NATIONAL SCIENCE WEEK TELL US HOW IT WENT!

Complete the online feedback form before Monday 12 September 2022 at www.surveymonkey.com/r/DSR2DSC and your school could WIN one of four \$50 gift vouchers!



WHAT'S ON ACROSS AUSTRALIA

in cities AND REGIONAL AREAS?

ACT

Kids SecuriDay Canberra

SecuriDay is all about introducing youth to technology and security, and its importance in their everyday lives. The goal is to learn about technology and security, be inspired, and have fun while doing it.

Good bugs/Bad bugs Canberra and online

There's good bacteria in a bottle of kombucha. But there's bad bacteria behind the estimated 4.1 million cases of food poisoning each year in Australia. Find out the difference from the experts.

NSW

Sydney Science Trail Sydney

Kids of all ages are invited to join in a science bonanza at the Australian Museum, the Royal Botanic Garden Sydney and the Australian Botanic Garden Mount Annan. Or traverse the trail online, and discover cutting-edge science at home.

The Mobile Poo Palace Hunter Valley

Follow the food and take a tour of the digestive system in the oversized, inflatable Mobile Poo Palace. Interactive food experiments will inspire and engage students as they learn about digestion, gut health, medical research, the human body, and water treatment.

This giant portable installation is a series of rooms and tunnels that mimic the journey food takes along the digestive tract.



NT

HealthLAB Darwin and Northeast Arnhem Land

HealthLAB – a clinic on wheels – lets people see heart and kidney ultrasounds, hear their heart beating, and try on 'alcohol goggles' that mimic raised blood alcohol levels. An interactive Time Machine app completes the picture – literally – by showing how those choices affect appearance.

Soils Across the NT Remote schools

Primary schools are exploring the importance and variation of soils across the Northern Territory. Each school will collect samples and send them to Darwin for analysis and mapping by scientists. The results will show the variety of soils and the differences in geography, climate, underlying geology and surrounding vegetation.

QLD

Cancer ART Gallery Online

The Cancer ART Gallery is a cancer biology themed art gallery overlaid with augmented reality (AR), adaptive soundtracks and videography. A series of AR artworks use pop-culture and nostalgic themes to explain cancer biology. Each artwork is the result of a collaboration between a cancer researcher and an artist, mutually exploring creative expression to form an immersive and memorable experience.

Butterfly Botany: The science of butterfly food Kuranda

Scientific talks, guided tours and interactive activities will be hosted in person and online by butterfly experts as they educate participants on the lives of butterflies. Visitors can examine butterflies under a microscope, make art with plants, and take seedlings home to plant. There will also be competitions, providing students with more butterfly botany knowledge.

SA

Science Alive! Adelaide

With over 60 exhibitors including all the big names in science and technology, experience interactive and dynamic displays, plus spectacular science shows and performances for all ages. There's something to spark the curiosity in all of us. The STEM Day Out for secondary schools is Friday 5 August, with the public invited to attend all weekend.

Breaking Glass Barriers – Deploy the Robots Adelaide

Who can design, build, and operate the ultimate obstacle-dodging, fast-driving robot? The SA Student Robotics Club will run a Robot Scrimmage, a program of robotics education, workshops, fun and learning. Teams will take on the challenge to design, manufacture, assemble and program robots. They will be able to remotely control robots in a driving competition with targets and obstacles.

TAS

Festival of Bright Ideas Hobart

Showcasing the brightest innovation, research and technology happening in Tasmania. The Festival will be sizzling with exciting science to blow your curious and creative mind. Held at Princess Wharf it will be humming with around 50 exhibitors, stage shows and workshop areas. Friday 19 August is the day just for schools.

Young Tassie Scientists Statewide

Another intrepid group of 20 to 25 early career researchers will volunteer their time this year to share their passion for science with schools and public audiences across Tasmania. Engaging interactive presentations and hands-on activities covering a wide range of science topics will feature local research and impacts.

VIC

Robotics and Coding Fun Melbourne

An after-school robotics and coding event for children aged 8-12 at Brunswick Neighbourhood House, led by STEM activity provider Robofun. The workshop will introduce coding using a drag and drop program designed to introduce computational thinking, then move to a focus on robotics, introducing basic electronics, including circuits and wiring.

Hydrogen Futures Warrnambool

An introduction to hydrogen, the future of zero emissions energy and hydrogen powered vehicles. Participants will isolate hydrogen with a tabletop electrolyser and experiment with toy hydrogen cars, a hands-on experience that puts science in the hands of our community. Two one-hour sessions will be delivered for upper primary and lower secondary students. A renewable energy display will be created, including a model hydrogen car, mini wind turbine, and solar panel.

WA

Glass: More than Meets the Eye Festival Victoria Park

Scientists, creative practitioners, and play makers will fire up, bend, and stretch participant's understanding of glass, and will captivate and educate through hands-on engagement with glass. With glass making demos, a pop-up glass science lab, a giant PVC pipe marble run and much more. The day will be inclusive, immersive, and full of discovery for all ages.

Red Dirt Robotics Broome

A series of five coding and robotics workshops, with four for students, and one for adults in the community. Broome Library currently runs a coding club, and it is hoped that these exciting workshops run by Red Dirt Robotics will inspire more community members to join in.

Visit scienceweek.net.au for more information and to find other events near you.