



national SCIENCE WEEK 2020



15 - 23 AUGUST 2020

CANBERRA FESTIVAL PROGRAM



An Australian Government Initiative



RISE
AUSTRALIA
presents

WHERE
YOU ARE
FESTIVAL



Australian
National
University

MAXAR

Canberra Weekly

Welcome to National Science Week!

Australia's largest celebration of science! This year's edition is better, bigger, bolder than ever.

Online, virtual and home-based activities and events are being held all around Canberra.

Come and learn about the fantastic, life-changing work that science, technology, engineering and mathematics organisations do in Canberra every day.

Scientists working in the ACT are changing the world and inventing the future one discovery at a time. Let us show you what tomorrow will be about!

Discover more about local Canberra women in STEM, go on a science treasure hunt, hear about how video games and science connect, and experience the effects of climate change on our reefs through glass work and music.

Be curious, be surprised, be amazed! Science is everywhere during National Science Week. Come and share the wonders and excitement of science!

There is something for everyone to see, do and learn... What will you discover?



Brittany Carter
Co-Chair

ACT National Science Week
Coordinating Committee



Michelle Kothe
Co-Chair

ACT National Science Week
Coordinating Committee



An Australian Government Initiative



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**WHERE
YOU ARE**
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Australian
National
University

MAXAR

WELCOME

National Science Week is Australia's annual celebration of science and technology. Running each year in August, it features more than 1000 events around Australia, including those delivered by universities, schools, research institutions, libraries, museums and science centres. These events attract a wide audience from children to adults, and science amateurs to professionals. Over one million people participate in science events across the nation.

Scientists, artists, and local and national organisations are putting on events all over the Nation's Capital this August.

Take a look inside this program and online to find an event that inspires you.



For details and online bookings of all events visit
www.scienceweek.net.au

Share your National Science Week using **#SatelliteSelfie**
Tell us why you love science with **#CBRIovesscience**

 **@Aus_ScienceWeek @nswk_ACT**

 **NationalScienceWeek, ScienceWeekACT**

 **@actscienceweek #SatelliteSelfie**

#SATELLITESELFIE



Canberra+Surrounds 2020



During National Science week this year, a satellite will fly over the ACT and surrounding area and will capture an image of as much of Canberra and the people in it as possible to create a time-capsule image of Australia's Capital from above.

We would love you to get your school, business or family and friends to go outside to an oval, park or backyard and create large designs, logos or icons on the ground that are big enough to be seen from space – but please make sure you social distance and follow the current health guidelines! The satellite will then fly over and capture a bird's eye view of your creations which we will upload to our website so you will then be able to see and keep them forever.

This event is presented by the Where You Are Festival with the support of the ACT Government.

For more information, visit inspiringtheact.org.au

In the lead up:

ACT Crystal Growing Competition

Free

Do you want to have fun with science? Then enter the RACI's ACT Crystal Growing Competition and learn all about growing beautiful crystals. The aim is to grow the best possible crystal of potash alum or another substance over a period of 6 weeks during Terms 2 and 3, closing on Friday 07 August.

WHEN

19 June - 31 July
9am

WHERE

Online

Canberra Women of Science and Art

Free

Showcasing diverse Canberran women working in or inspired by science, tech, engineering, art and maths. Join a webinar to meet them and explore their craft/s and their career journeys. Get creative, win prizes! Develop a creative interpretation (e.g. poetry, art, comedy or anything you like).

WHEN

8 - 23 August
10am - 8pm

WHERE

Online

Requiem for a Reef

Free

Requiem for a Reef is a collaborative and immersive work of advocacy for the endangered Great Barrier Reef by artist Ngaio Fitzpatrick, composer Alexander Hunter and accompanied by professional musicians. The evening will consist of a performance, followed by a Q&A with Ngaio Fitzpatrick and other experts in climate change.

WHEN

13 August
11.30am - 12pm

WHERE

Online



In the lead up Cont.

NFSA LIVE: THE MAN WHO KNEW INFINITY

Free

A free online screening of *The Man Who Knew Infinity* (2015), starring Dev Patel and Jeremy Irons. The film will be followed by a live Q&A session with details of guests to be announced closer to the time.

WHEN

14 August
6pm

WHERE

Online

Women's Science Adventures

Free

Canberra produces some superb scientists who end up having amazing adventures in the science world. In this series of online chats you will meet women who have gone to all kinds of places around the world – remote locations, like Antarctica or remote deserts, or to the most amazing telescopes, labs or hadron colliders.

WHEN

14 - 21 August
7 - 8.30pm

WHERE

Online

SciFest Parasites and You (from ANU)

Free

Learn what a parasite is and take a close look at these amazing critters – some 100 times smaller than the eye can see and others the length of a swimming pool! Learn how ANU scientists are studying parasites to understand their biology and find new ways to treat and prevent the diseases they cause.

WHEN

15 - 23 August
12 - 7pm

WHERE

Online



VISIT WWW.SCIENCEWEEK.NET.AU TO BOOK ALL YOUR TICKETS

PUBLIC EVENTS THIS NATIONAL SCIENCE

| SAT 15 | SUN 16 | MON 17 | TUES 18 | WED 19 |
|---|---|---|--|---|
| <p>ANU Student Association: Health Innovation Hackathon – Fighting Pandemics 9am - 6pm</p> <p>Digital Kids SecuriDay 9.30am - 5pm</p> <p>Destination Moon & Beyond 2 - 4pm</p> <p>Better Composting Through Science 2 - 4pm</p> | <p>ANU Student Association: Health Innovation Hackathon – Fighting Pandemics 9am - 6pm</p> <p>Rocket Science in a Bottle 2 - 3pm</p> <p>SciFest Parasites and You (ANU) 15 - 23 August 12 - 7pm</p> <p>Diving Deep with Robogals Canberra 15 - 29 August Anytime</p>  | <p>Shirty Science Up Late 17 - 21 August 7 - 9pm</p> <p>Women's Science Adventures 14 - 21 August 7 - 8.30pm</p>  <p>Canberra Women of Science & Art 8 - 23 August 10am - 8pm</p> | <p>Game Plus Fest Online 4.30 - 6.30pm</p> <p>Shirty Science Up Late 17 - 21 August 7 - 9pm</p> <p>Great Aussie BioQuest 2020 15 - 23 August Anytime</p> <p>Sex Ed., Part 2 [The Remix] 15 - 23 August 2 - 5pm</p>  | <p>Science for Food Security: Making a Global, Professional and Personal Difference 11 - 12pm</p> <p>Why Girls Totally Rock 5.30 - 6.30pm</p> <p>Shirty Science Up Late 17 - 21 August 7 - 9pm</p> <p>ANUSA National Science Week: Women in STEM Panel 7 - 8.30pm</p> |

For details of all events visit www.scienceweek.net.au or download the iOS or Android app from your App Store

VISIT THE NATIONAL SCIENCE WEEK WEBSITE TO BOOK YOUR TICKETS

WEEK IN CANBERRA 15-23 AUGUST 2020

| THURS 20 | FRI 21 | SAT 22 | SUN 23 | OTHER |
|---|---|---|--|---|
| <p>Science Alliance 4 - 5.30pm</p> <p>Queer STEM History: Live Podcast Recording 6 - 7.30pm</p> <p>ANU Student Association: Live Astronomy with Dr Brad Tucker 7 - 8pm</p> <p>Shirty Science Up Late 17 - 21 August 7 - 9pm</p> | <p>g4g Broadcast: Science, you had me at Hello® - Exploration 4 - 5.15pm</p> <p>Shirty Science Up Late 17 - 21 August 7 - 9pm</p> <p>Mt Stromlo Public Astronomy Night Online 7 - 8.30pm</p> | <p>Canberra Treasure Hunt 22 - 23 August 10am</p> <p>Measuring Earth's Gravity, across ACT 1 - 3pm</p> <p>Science Pub Trivia- At Home! 7pm</p> <p>Rocketry 101 2 - 3pm</p>  | <p>Canberra Treasure Hunt 22 - 23 August 10am</p> <p>The Weird the Wacky of the Animal Kingdom plus DeadlyScience 12 - 1.30pm</p>  | <p>ACT Crystal Growing Competition 19 June - 31 July</p> <p>Requiem for a Reef 13 August 11.30am - 12pm</p> <p>Film Night 14 August - 6pm</p> <p>SciFest Parasites and You (ANU) 15 - 23 August 12 - 7pm</p> <p>Women's Science Adventures 14 - 21 August 7 - 8.30pm</p> <p>Canberra Women of Science & Art 8 - 23 August 10am - 8pm</p> <p>Sex Ed., Part 2 [The Remix] 15 - 23 August 2 - 5pm</p> <p>Great Aussie BioQuest 2020 15 - 23 August Anytime</p> <p>Diving Deep with Robogals Canberra 15 - 29 August Anytime</p> |

Share your National Science Week using #NatSciWk

 @Aus_ScienceWeek @nswk_ACT

 NationalScienceWeek, ScienceWeekACT

 @actscienceweek #SatelliteSelfie

DAY 01: Saturday 15 August

ANU Student Association: Health Innovation Hackathon – Fighting Pandemics

Free

A collaboration between the Joint College of Science Representatives and ANU Humanitarian Innovation Society, this week-long event challenges teams to solve contemporary scientific and humanitarian problems through an interdisciplinary approach. The program features workshops guided by mentors from academia and industry. This will culminate in a pitch that will be presented to the public and a panel of judges from various backgrounds. The winning proposal will win a cash prize. The competition is open to participants from any background.

WHEN

8 - 15 August
9am - 6pm

WHERE

Online



Digital Kids SecuriDay

Early bird free, \$10 general tickets

Kids SecuriDay is going digital delivery as part of National Science Week with a stack of fun security talks, workshops, competitions and games planned!

WHEN

9.30am - 5pm

WHERE

Online

Canberra Women of Science and Art

Free

Showcasing diverse Canberran women working in or inspired by science, tech, engineering, art and maths. Join a webinar to meet them and explore their craft/s and their career journeys. Get creative, win prizes! Develop a creative interpretation (e.g. poetry, art, comedy or anything you like).

WHEN

8 - 23 August
10am - 8pm

WHERE

Online

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DAY 01: Saturday 15 August Cont.

SciFest Parasites and You (from ANU)

Free

Learn what a parasite is and take a close look at these amazing critters – some 100 times smaller than the eye can see and others the length of a swimming pool! Learn how ANU scientists are studying parasites to understand their biology and find new ways to treat and prevent the diseases they cause.

WHEN

15 - 23 August
12 - 7pm

WHERE

Online

Destination Moon & Beyond

Free

For any young person interested in space and astronomy! This free online event is targeted at ages 6-14 years. Bookings via www.trybooking.com/BKDOD, must close 7 August. Zoom link will be sent to registered participants!

WHEN

1pm - 2pm

WHERE

Online

Better Composting Through Science

\$5

Have you ever been told “Just compost, it’s so easy!” but then have been unsure about aspects such as carbon to nitrogen ratio, or frustrated by a slow, sloppy or stinky pile? Join this science webinar and interactive question and answer session to help you compost more successfully.

WHEN

2pm - 4pm

WHERE

Online



Women's Science Adventures

Free

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WHEN

14 - 21 August
7 - 8.30pm

WHERE

Online

DAY 01: Saturday 15 August Cont.

Sex Ed., Part 2 [The Remix]

Free

Let's be real: Sex Ed was awkward... Especially if you were a young Queer kid who wasn't necessarily being catered to. But top drag scientist, Toni Kola is here to save the day with Sex Ed., Part 2 [The Remix]. Join Toni and friends as they deep dive into the science of sex, and how it relates to LGBTQIA+ humans - discussing everything from basic biology, to the best lubes for you! Sex Ed., Part 2 [The Remix] is an 18+ digital event.

WHEN

15 - 23 August
2 - 5pm

WHERE

Online

Great Aussie BioQuest 2020

Free

This challenge, open to all Australians, draws attention to an urgent aspect of managing our climate change-induced biome - the lack of comprehensive data on biodiversity. It aims to address this problem by engaging people from all walks of life in a competition that is entertaining, locally relevant and inspirational, while gathering valuable biodiversity data. Players participate in The Great Aussie BioQuest (GreatAussieBioQuest.com) through the QuestaGame mobile app, during the National Science Week.

WHEN

15 - 23 August
Anytime

WHERE

Online

Diving Deep with Robogals Canberra

Free

Come and explore the ocean with Robogals Canberra. In alignment with the National Science Week school's theme, Robogals Canberra has five challenges. Each of the challenges relates to the ocean's various purpose, with the hope of teaching children about the importance of the ocean in our daily lives.

WHEN

15 - 23 August
Anytime

WHERE

Online

DAY 02: Sunday 16 August

ANU Student Association: Health Innovation Hackathon – Fighting Pandemics

Free

A collaboration between the Joint College of Science Representatives and ANU Humanitarian Innovation Society, this week-long event challenges teams to solve contemporary scientific and humanitarian problems through an interdisciplinary approach. The program features workshops guided by mentors from academia and industry. This will culminate in a pitch that will be presented to the public and a panel of judges from various backgrounds. The winning proposal will win a cash prize. The competition is open to participants from any background.

WHEN

8 - 15 August
9am - 6pm

WHERE

Online

Rocket Science in a Bottle

Free

Join Robogals Canberra and ANU Rocketry as they explore the science of rockets with simple household items. We will be showing a short demonstration and explaining the scientific concepts behind rocketry such as propulsion, thrust and some chemistry as well as providing you with a step-by-step guide to try it at home.

WHEN

16 August
2pm - 3pm

WHERE

Online



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DAY 02: Sunday 16 August Cont.

SciFest Parasites and You (from ANU)

Free

Learn what a parasite is and take a close look at these amazing critters – some 100 times smaller than the eye can see and others the length of a swimming pool! Learn how ANU scientists are studying parasites to understand their biology and find new ways to treat and prevent the diseases they cause.

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14 - 21 August
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WHEN

15 - 29 August
Anytime

WHERE

Online

DAY 03: Monday 17 August

Shirty Science Up Late

Free

Dust off those art supplies because Shirty Science Up Late is streaming scientists straight into your lounge room so you can try your hand at science shirt making and learn a few things in the process.

WHEN

17 - 21 August
7pm - 9pm

WHERE

Online

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SciFest Parasites and You (from ANU)

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WHEN

8 - 23 August 10am
- 8pm

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Anytime

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DAY 04: Tuesday 18 August

Game Plus Fest Online

Free

Chatting online with game developers about connecting games and science. Game developer Mark Schramm will showcase his virtual reality game *Gravity Lab* while we chat about VR, physics in games and how he built this experience.

WHEN

4.30pm - 6.30pm

WHERE

Online

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DAY 04: Tuesday 18 August Cont.

Shirty Science Up Late

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WHEN

17 - 21 August
7pm - 9pm

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DAY 05: Wednesday 19 August

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17 - 21 August
7pm - 9pm

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Anytime

WHERE

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DAY 05: Wednesday 19 August Cont.

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12 - 7pm

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WHEN

8 - 23 August
10am - 8pm

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Online

Science for Food Security: Making a Global, Professional and Personal Difference

Free

Explore countries and cultures, have a rewarding career AND make a difference. Interested? If you are looking for a career delivering global, professional and personal impacts, join our energetic, engaging and live interactive 45-minute panel and Q&A discussion with young passionate scientists highlighting the diverse and exciting fields impacting global food and nutrition security, and how you can get involved.

WHEN

11 - 12pm

WHERE

Online



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DAY 05: Wednesday 19 August Cont.

Why Girls Totally Rock

Free

Please join Women in Engineering Committee Canberra for an opportunity to hear from Alexandra Radulovich. Alexandra Radulovich is a chartered, senior geotechnical engineer with Douglas Partners and a member of Engineers Australia's Women in Engineering Committee. She is a passionate engineer who wants to share her love of dirt and rocks and get more girls excited about engineering!

WHEN

5.30 - 6.30pm

WHERE

Online

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WHEN

14 - 21 August
7 - 8.30pm

WHERE

Online

ANU Student Association National Science Week: Women in STEM Panel

Free

This is a panel consisting of female-identifying academics and researchers from the ANU and wider research community in the ACT who will be speaking about their experiences as women in STEM, giving advice to aspiring female scientists, and talking about how they think gender inequality in STEM can be addressed. This will be followed by a Q/A session with the audience.

WHEN

7pm - 8.30pm

WHERE

Online

DAY 06: Thursday 20 August Cont.

Shirty Science Up Late

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WHEN

17 - 21 August
7pm - 9pm

WHERE

Online

ANU Student Association: Live Astronomy with Dr Brad Tucker

Free

This collaboration with the ANU Astronomy Society features Dr. Brad Tucker who is an Astrophysicist and Cosmologist based at the ANU. Through a webinar format, Dr. Tucker will be talking about astronomy and helping viewers identify celestial objects as they follow along with an interactive sky app.

WHEN

7pm - 8pm

WHERE

Online



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WHEN

15 - 23 August
2 - 5pm

WHERE

Online

Queer STEM History: Live Podcast Recording

Free

Join A Gender Agenda and Queer STEM History for a livestreamed podcast recording during National Science Week. We will be hosting a panel of local LGBTIQ+ people working in STEM to discuss their work and reflect on their experiences in their fields.

WHEN

6 - 7.30pm

WHERE

Online

DAY 06: Thursday 20 August Cont.

SciFest Parasites and You (from ANU)

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WHEN

8 - 23 August
10am - 8pm

WHERE

Online

Science Alliance

Free

Vanessa de Kauwe with assistants from the ACT Down Syndrome Association Science Alliance group will present a live demonstration of the Steps of Thinking employed to educate students of all abilities. The “Steps of Thinking” showcases the difference between providing an instruction to finish a task, and providing instruction to promote independent thought and problem solving.

WHEN

4pm - 5.30pm

WHERE

Online



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WHERE

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Diving Deep with Robogals Canberra

Free

Come and explore the ocean with Robogals Canberra. In alignment with the National Science Week school's theme, Robogals Canberra has five challenges. Each of the challenges relates to the ocean's various purpose, with the hope of teaching children about the importance of the ocean in our daily lives.

WHEN

15 - 29 August
Anytime

WHERE

Online

DAY 07: Friday 21 August

Canberra Women of Science and Art

Free

Showcasing diverse Canberra women working in or inspired by science, tech, engineering, art and maths. Join a webinar to meet them and explore their craft/s and their career journeys. Get creative, win prizes! Develop a creative interpretation (e.g. poetry, art, comedy or anything you like).

WHEN

8 - 23 August
10am - 8pm

WHERE

Online

SciFest Parasites and You (from ANU)

Free

Learn what a parasite is and take a close look at these amazing critters – some 100 times smaller than the eye can see and others the length of a swimming pool! Learn how ANU scientists are studying parasites to understand their biology and find new ways to treat and prevent the diseases they cause.

WHEN

15 - 23 August
12 - 7pm

WHERE

Online

Great Aussie BioQuest 2020

Free

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WHEN

15 - 23 August
Anytime

WHERE

Online



DAY 07: Friday 21 August Cont.

Sex Ed., Part 2 [The Remix]

Free

Let's be real: Sex Ed was awkward... Especially if you were a young Queer kid who wasn't necessarily being catered to. But top drag scientist, Toni Kola is here to save the day with Sex Ed., Part 2 [The Remix]. Join Toni and friends as they deep dive into the science of sex, and how it relates to LGBTQIA+ humans - discussing everything from basic biology, to the best lubes for you! Sex Ed., Part 2 [The Remix] is an 18+ digital event.

WHEN

15 - 23 August
2 - 5pm

WHERE

Online

g4g Broadcast: Science, you had me at Hello® - Exploration

Free

Get ready to explore as we hear awe-inspiring stories from local STEM role models during our g4g Broadcast: Science, you had me at Hello® in partnership with National Science Week ACT! Meet our speakers in breakout rooms, dive into our hands-on experiment, and learn more with our post-broadcast resources. Open to girls aged 15+ throughout the ACT.

WHEN

4pm - 5.15pm

WHERE

Online



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WHEN

15 - 29 August
Anytime

WHERE

Online

DAY 07: Friday 21 August Cont.

Mt Stromlo Public Astronomy Night Online

Free

Mount Stromlo Observatory in conjunction with the Canberra Astronomical Society invite you to (virtually) attend our public observing night during National Science Week. Come and see the craters of the Moon, planets, and beautiful star clusters and nebulae. On the night attendees will be taken on a 'tour of the universe' with talks by astronomers from Mt. Stromlo Observatory and telescope observations.

WHEN
7 - 8.30pm

WHERE
Online

Women's Science Adventures

Free

Canberra produces some superb scientists who end up having amazing adventures in the science world. In this series of online chats you will meet women who have gone to all kinds of places around the world – remote locations, like Antarctica or remote deserts, or to the most amazing telescopes, labs or hadron colliders.

WHEN
14 - 21 August
7 - 8.30pm

WHERE
Online

Shirty Science Up Late

Free

Dust off those art supplies because Shirty Science Up Late is streaming scientists straight into your lounge room so you can try your hand at science shirt making and learn a few things in the process.

WHEN
17 - 21 August
7pm - 9pm

WHERE
Online

VISIT WWW.SCIENCEWEEK.NET.AU TO BOOK ALL YOUR TICKETS

DAY 08: Saturday 22 August

Canberra Treasure Hunt

Free

Explore Canberra's historic and modern connections with Canberra treasure hunt. You and your team will solve riddles that will take you to different suburbs in Canberra, uncovering hidden historic sites, contemporary art, and colourful local characters. Join the hunt and discover the city's hidden gems!

WHEN

22 & 23 August
10am - 1pm

WHERE

Online



Measuring Earth's Gravity, across ACT

Free

In this Young Stars session, we will measure gravity across the Australian Capital Territory. We will do this with help from young stars from across the region. How will we do this? Pendulums, lots and lots of pendulums! Suitable for ages 6-12+

WHEN

1 - 3pm

WHERE

Online

Science Pub Trivia- At Home!

Free

Science Pub Trivia is on again in 2020 - but this time, you can play along at home. Get your team together and tune in on Facebook Live for this entertaining evening: questions will cover all areas of the scientific world, the latest tech and pop culture too! There'll be questions for everyone!

WHEN

7pm

WHERE

Online



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15 - 23 August
2 - 5pm

WHERE

Online

Rocketry 101

Free

The ANU Rocketry will talk about the basic components that allow rockets to fly, and will discuss some of the fundamental scientific concepts, such as propulsion, aerodynamics and thrust. It will end with a Q&A and a Kahoot about rockets and space.

WHEN

22 August
2 - 3pm

WHERE

Online

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Anytime

WHERE

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WHEN

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Anytime

WHERE

Online

The Weird the Wacky of the Animal Kingdom plus DeadlyScience

Free

Join us as we take a journey looking at the weird, the wonderful, and the wacky animals from around the world. Then we will cover all things DeadlyScience where we chat about the original scientists and what we do.

WHEN

23 August
12 - 1.30pm

WHERE

Online

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national science week

HOW WILL YOU SCIENCE THIS NATIONAL SCIENCE WEEK?



For the full program and to book tickets for events visit:
www.scienceweek.net.au

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Tell us why you love science with **#CBRIlovesscience**



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