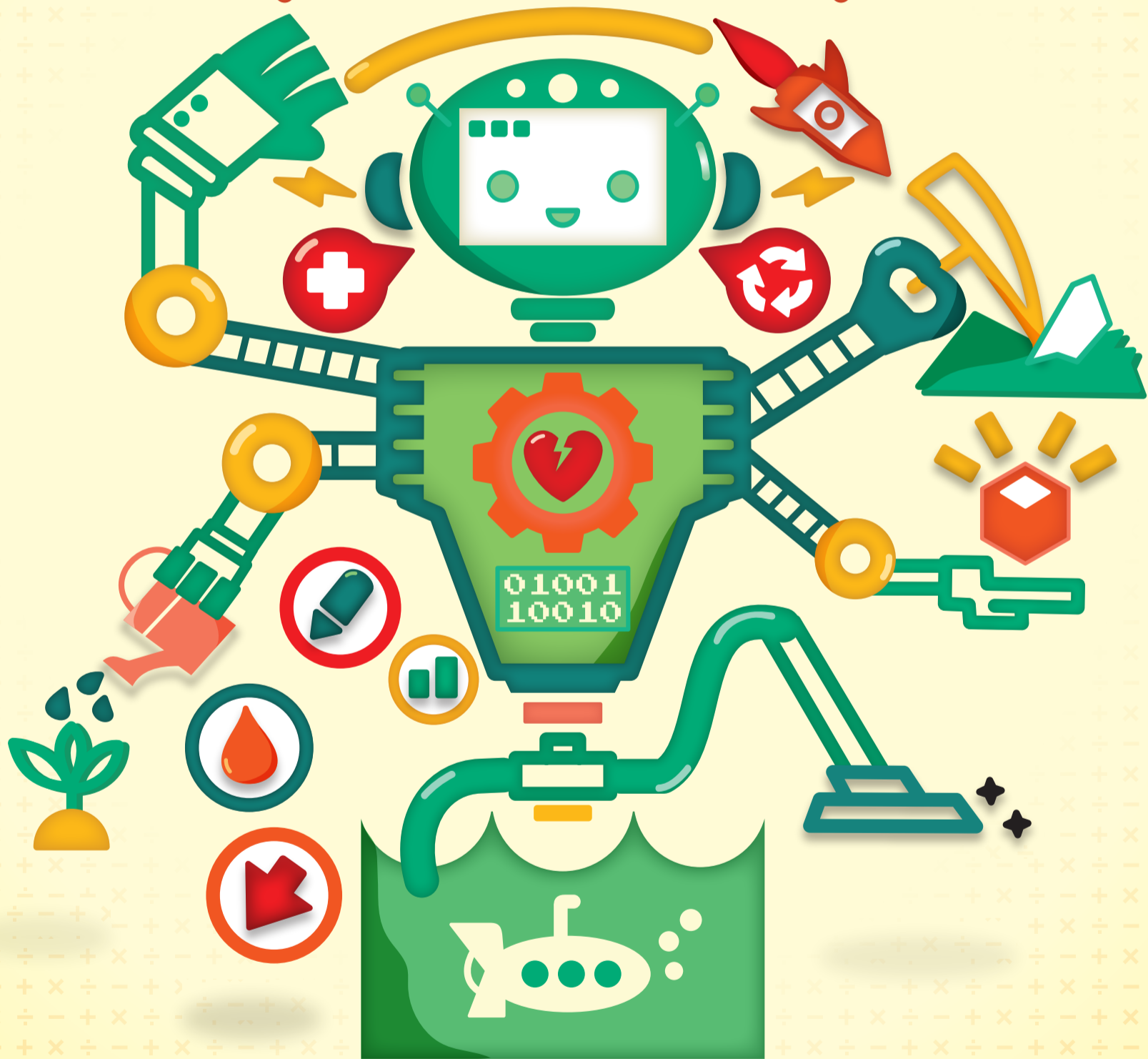


Drones, Droids and Robots



$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$



 national science week 2016

www.scienceweek.net.au
13-21 August



An Australian Government Initiative



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What will you be doing this NATIONAL SCIENCE WEEK?

Enjoy a Brain Break!

Celebrate science in your staff room during National Science Week by holding a Brain Break morning tea. Hold a science quiz, bring in quirky science-themed edibles or run some short science experiments! It's a chance to show your colleagues the wonder of science.

Register your Brain Break by 15 July scienceweek.net.au/brainbreak to receive a FREE National Science Week Brain Break pack including quiz questions, activity suggestions, coasters and other promotional items. The packs will be mailed out early August.



Be a Wildlife Spotter!

Be a citizen scientist...

Think you know your quoll from a bandicoot? Help out wildlife researchers by spotting quolls, malleefowl, Tassie devils, cats and many more animals captured in photos. This Science Week, we're looking for citizen scientists of all ages to identify animals in roughly a million images taken all across Australia by automated cameras. You just need an Internet connection to get your school involved! Go to the Science Week website for details.

Go and see 'BrainSTEM - A Smart Comedy About Science!'

Free public performances in Melbourne, Sydney, Canberra, Brisbane, Adelaide and Perth. 11-23 August 2016

BrainSTEM is an educational theatre performance to celebrate National Science Week and the 2016 schools theme 'Drones, Droids and Robots'. The program will focus on the Technology aspect of STEM with technologies that help and change lives. BrainSTEM contains a series of theatrical sketches to create hilarious and fact-filled scenes that educate on STEM subjects. BrainSTEM can also come to your school! <http://www.performmusicals.com/#!/aus---science-week-in-schools/cje6>

Take a look at the Drones, Droids and Robots digital teacher resource book!

This year's digital resource book will take a look at the world of drones, droids and robots. Content will include 'science fiction v's science fact'; their domestic and industrial applications, communications, flight, materials and circuits; the importance of maths; competitions for schools and cutting-edge Australian research... and lots of interactive fun!

The digital book will be **freely and easily accessible** for anyone with the Internet and also available for download. You will be able to access the resource book from the ASTA (www.asta.edu.au) and Science Week websites from May 2016.



Festivals, activities, events and more... across Australia! Something for students of all ages.

ACT

Science in ACTION

Former Transport Depot (Old Bus Depot) in Kingston, Friday 12 August

Book your class in for a unique science experience at Science in ACTION! It's ACT science at its best, with a program designed to inspire students about STEM studies and careers. Hands-on workshops, demonstrations, interactive displays, presentations from some of ACT's best scientists, robot competitions... There will be all of this and much, much more! Join us to share the wonders of science this August! Free event, bookings required.

NSW

Gondwana Garden

Australian Botanic Garden, Mount Annan.

Meet the dinosaurs and eat the plants at a free, family-friendly event in Sydney's west, bringing ancient and modern Australian rainforests to life. Highlights include behind-the-scenes tours of the PlantBank research facility and seed vault, hands-on activities and experiments, meeting the scientists, native plant tasting, a life-size Australian dinosaur and a virtual Cretaceous creature hunt.

Sapphire Coast Science Festival

A science film night with a discussion of fact and fiction on the big screen, robotics and IT workshops are all part of this week-long regional science festival. Events will be held in Bega, Eden, Tathra and Pambula.

Riverina Science Week Festival

The Riverina Science Week Festival will offer events for all age groups across a large geographic and digital landscape on the themes of wetlands, food production, acoustics, 'Neural Knitworks' activities, the engineering of levee banks and bridges, kitchen science, supermarket botany, Indigenous culture, astronomy, and noxious weed identification.

NT

Spun - Wild

Darwin Festival - The Lighthouse; Festival Park Precinct, Sunday August 14

Spun is a live storytelling event held in Darwin where ordinary people tell extraordinary stories. True stories told live are incredibly powerful. They have the potential to move, confront and inspire us, reframing the way we see ourselves, and others. Enjoy this 'Wild' themed Spun for an inspirational start to Science week and a candid snapshot of life in the Territory.

Arid Lands EcoFair -

Science and Sustainability in the Desert

Talk dirty about soil science with Costa, meet the animals with Ranger Stacey, hear from the National Camel Panel, and try some bush tucker and a camel burger: this three-day festival brings science to the fore in Alice Springs. The 2016 program sees the event expand across multiple venues including Olive Pink Botanic Gardens, Alice Springs Community Garden, Earth Sanctuary and Alice Springs Desert Park.

Qld

Explosive Science @ Ekka

Brisbane Exhibition Ground

Science will be brought to life at the Royal Queensland Show (the Ekka), using a range of interactive activities, guest presentations and captivating science demonstrations to show the relevance of science in everyday life. Activities include stage shows, DNA extractions, slime workshops, sherbet making, robotics, and microscopy.

Catch a Rising Star: Women in Science in Regional Queensland

Cairns, Rockhampton, Mackay, Mount Isa, Cloncurry, Charleville and Cunnamulla.

Where are science and technology's women role models? And what are their stories? This initiative will provide communication training for early and mid-career women scientists, and then take them on a roadshow of events. Teams of researchers will visit remote and regional venues to talk about their work.

SA

Kids Navigate Neuroscience

University of Adelaide School of Medicine

In a twist on the traditional science fair, children will actively explore how the brain and nervous system work by participating in and judging a series of interactive neuroscience exhibits.

Science: Opening doors

South Australian Museum

A rare opportunity for people to look behind the scenes of the Museum and see the work of its scientists up close. This event will focus on the power of science to change the way we view the world around us. Activities include interactive storytelling sessions for three- to five-year-olds, a schools program exploring 'drones, droids and robots' and a major open day for the general public.

Science Alive! Careers Day

Wayville Showground, Friday 5 August, 9am-3pm

Free and open to all students from Years 7-12. Featuring over 50 interactive stalls, chemistry shows, career presentations and so much more, all highlighting the diversity of science and engineering careers. Bookings via Eventbrite. Queries: 0413 156 172

Tas.

Schools Day @ The Festival of Bright Ideas

Princes Wharf 1, Castray Esplanade Hobart.

Friday 12 August

Book your class in for a super science experience at the inaugural Festival of Bright Ideas, incorporating a science expo with hands-on workshops, demonstrations and displays, interactive presentations and a host of other fun and informative activities for students of all ages. Free event.

Science Open Season

Queen Victoria Museum and Art Gallery, Inveresk

Explore prehistoric Australia through exhibitions, displays and activities about megafauna, dinosaurs and Permian monsters. There's also Night at the Museum, The Big Day of Science, and a look into the future with developments in space and deep-sea exploration. This program of 18 events will run across seven days, with more than 120 sessions.

Bright Ideas:

Innovation and Opportunity in Western Tasmania

Strahan and Queenstown.

4-7 August

This four-day celebration of science engagement as part of National Science Week and the 100th anniversary of the Parks and Wildlife Service in Western Tasmania includes a Marine and Community Values Symposium, a Science in Schools and Careers Day, Astrophotography and Auroras with Planet Pete, a Community Day and more. The Festival will enliven this isolated region during winter.

TAStroFest

Ulverstone.

11-14 August

TastroFest's Student Days are designed to educate primary and secondary classes as part of Tasmania's Astronomy Festival. Events include Live Science Shows for years 3-12 (30 mins), Aurora and Astrophotography Gallery (Daily), Exhibitions featuring 'live feed' from International Space Station (Daily), Smithsonian Institution 'Earth From Space' imagery exhibition (Daily), PLANETARIUM (\$3pp) with curriculum based movies including *Aboriginal Astronomy*, *Climate Change* and *Our Solar System* - Years 1-12. Free for schools unless stated otherwise.

Vic.

Living Science at the Market

Queen Victoria Market, Queen Street, Melbourne.

Sunday, 10am-3pm

Join us at the Queen Vic Market and explore the relationships between food, science, innovation, technology and the environment. Interactive presentations, hands-on activities for adults and children, shows and cooking demonstrations run throughout the day. For a confirmed date and more information visit: www.scienceweek.net.au and search for 'Living Science.'

Science Week in a Bag -

Encouraging science through play

Rosebud Toy Library

No one is too young to engage with science. Small children will explore science through play, with preschool science sessions and 'Science Week in a Bag' kits distributed to families through three toy libraries in the lead up to Science Week. YouTube videos of children showing how the kits are used will be available and a social media competition will encourage people to share photos of their science play ideas.

The Invisible War - graphic novel launch

The Royal Society of Victoria, 8 La Trobe Street, Melbourne. Saturday 20 August, 3pm-5pm

France, 1916: While treating a patient with dysentery, Sister Annie Barnaby encounters a strain of lethal Shigella bacteria. As the invaders journey into her gut, the resident microbes fight to survive. Annie's life hangs in the balance. Enter the phage, deadly predators, ready to wage war to protect their host. Read more at www.TheInvisibleWar.com.au.

Scale Free Network is launching The Invisible War at the Royal Society of Victoria. This event features a live discussion with the book creators - together with the scientist who inspired the story, Dr. Jeremy Barr.

WA

Perth Science Festival

Perth Cultural Centre, 13-14 August

Snakes, stargazing and slime, oh my! Get down to the Perth Science Festival for over 50 interactive stalls, explosive experiments, science theatre and more. 2016 also features bio-hacking extraordinaire Ellen Jorgenson, and the World Biotech Tour, hosted by Scitech! Our annual schools competition is on again with entries showcased at the Festival. For more information: scienceweek@scitech.org.au

Goodness Science Innovation

and Sustainability Festival

Geraldton

This festival will showcase science, technology, innovation and sustainability in the mid-West, with a suite of events and activities around themes of Ocean Science, Bright Green, Smart Health, Light Science, Engineering Energy and Social Innovation. A 10-day festival of community-focused seminars, workshops, tours and events around a geographical and virtual Festival Hub.



For more information and updates on any of these events go to the National Science Week website 'Find an event' page



<https://www.facebook.com/nationalscienceweek>



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