

# FESTIVAL OF BRIGHT IDEAS

PROUDLY SUPPORTED BY UNIVERSITY OF TASMANIA 

Science for  
the curious  
and creative

## Activities

### 1. Hydro Tasmania

Build and test a working turbine using recycled materials to discover how moving water generates energy.

### 2. TasNetworks

Use handcranks to light up an interactive map of Tasmania and discover how electricity powers our state.

### 3. Deadly Science

Explore traditional fish traps, investigate water flow and discover First Nations engineering in action.

### 4. City of Hobart

Explore local bushlands through nature-inspired activities and learn how to care for the environment.

### 5. City of Hobart

Discover how drones help local government through mapping, photography, video and other technologies.

### 6. Tasmania Engagement, University of Tasmania

Investigate freshwater shrimp and other arthropods through microscopes and hands-on activities.

### 7. Geography, Planning and Spatial Sciences, University of Tasmania

See mini-drones in action and explore an augmented reality sandbox while discovering how mapping helps us understand our world.

### 8. Chemistry, University of Tasmania

Build molecular structures and discover how scientists identify and measure substances.

### 9. Mathematics, University of Tasmania

Explore games and challenges that reveal patterns, logic and numbers hidden in everyday life.

### 10. Earth Sciences, University of Tasmania

Step into the role of a geologist and explore Tasmania's rocks, minerals and landscapes.

### 11. Biological Sciences, University of Tasmania

Discover how plants and animals adapt to changing environments through hands-on investigations.

### 12. Bytewise – a Qwestacon exhibition

Dive into hands-on maths and coding challenges. Crack codes, test logic and explore how computers think through interactive puzzles.

### 13. Curious Climate Schools

Take on hands-on challenges and discover simple ways to make sustainable choices and take climate action.

### 14. Understorey Network Inc

Explore seeds, soil and ecosystems and discover how environments recover and thrive.

### 15. Sustainability Learning Centre

Analyse clues and tackle an escape room-inspired challenge to discover how science helps solve real-world problems.

### 16. Bob Brown Foundation

Explore Tasmania's forests, wildlife and marine environments and learn how to help protect them.

### 17. Tasmanian Museum and Art Gallery

Travel back in time through fossils and uncover stories of ancient life in Lutruwita/Tasmania.

### 18. Big Fish Card Game, University of Tasmania

Explore marine science and sustainable recreational fishing through a strategic card game.

**19. Institute for Marine and Antarctic Studies, University of Tasmania**

Dive into marine ecology and Southern Ocean research with scientists and discover the ocean's role in our climate.

**20. Fisheries Tasmania, Natural Resources and Environment**

Race as kelp or urchin through the Great Southern Reef and discover why healthy underwater ecosystems matter.

**21. Devil Robotics**

Take control of robots and discover how coding, design and engineering work together.

**22. Tas Recycle (Recycle Rewards)**

Test your recycling skills and discover how small actions can help keep Tasmania clean.

**23. Science Teachers Association of Tasmania**

See how young scientists turn curiosity into innovation through interactive demonstrations.

**24. Healthy Shack Tech**

Discover how advanced scanning technology transforms real spaces into immersive 3D environments.

**25. Future You**

See how cooking, playing and building connect to STEM and add your ideas to a shared wall.

**26. Tasmania Police**

Step into a crime scene investigation, examine evidence and try fingerprinting techniques.

**27. Natural Resources and Environment Tasmania, ReThink Waste and Resource Tip Shop**

Reimagine your wardrobe and discover practical ways to repair, restyle and reuse clothing.

**28. Tasmanian Institute of Agriculture, University of Tasmania**

Discover the hidden heroes that support farms, the environment and our food supply.

**29. Hobart Hackerspace**

Explore 3D printing, robots, optical illusions and interactive technology challenges.

**30. Engineers Australia Tasmania and Engineering, University of Tasmania**

Get hands-on with engineering activities exploring design, building and problem-solving.

**31. Tasmanian Student Science Communicators Network**

Explore oceans and waterways through hands-on activities and discover ways to protect marine environments.

**32. Architecture and Design, University of Tasmania and Forest Education Foundation**

Build giant free-form structures using specially designed timber pieces and experiment with shapes and connections through hands-on play.

**33. nita Education**

Examine seeds, plants and stories while discovering the science behind Palawa knowledge of Traditional bush foods.

**34. Invasive Species Council**

Become an eco-detective and investigate how invasive species affect Tasmania's ecosystems and wildlife.

**35. ProMED**

Try hands-on first aid activities and discover what to do in an emergency.

**36. Tasmanian Model Solar Challenge**

Discover how solar energy powers model cars and boats through hands-on engineering.

**37. Nipaluna Nursery**

Take action for biodiversity - compost your fears, make a seed bomb and grow native plants.

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## Roving Encounters

Keep an eye (and ear) out for Conspiracy of One, a roving science musician sharing songs, stories and surprising science moments.

## Chill Out Space

Need a breather? The Chill Out Space is a calm, lower-sensory place where you can take a break and regroup during the festival. Located behind the Hydro activity.

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## First Aid

First aid support, proudly provided by ProMED, is available at the far end of the venue.

## Food and Drink

Van Demons Café