



## Other programs for teachers and students:

### Double Helix Science Club



Discover the Double Helix experience with Scientrific and The Helix, CSIRO's science magazines for primary and high-school-aged students. Big savings on bulk subscriptions for schools and free teacher's guides are available online.

Double Helix also offers a range of engaging, hands-on science events and activities from this centre.

[www.csiro.au/helixschools](http://www.csiro.au/helixschools)  
[www.csiro.au/helixevents](http://www.csiro.au/helixevents)

### Holiday Science Activities

During school holidays, entertaining and educational programs are available to the general public, including vacation centres, libraries etc. Programs are run at our centre and other venues. Contact the centre for details.



### Scientists in Schools (SiS) Mathematicians in Schools (MiS)

The SiS program and its sub-program MiS create and support long-term partnerships between scientists or mathematicians, and teachers in primary and secondary schools across Australia. The partnerships are supported by resources, emails, phone calls and face-to-face events. Register for free online.

[www.scientistsinschools.edu.au](http://www.scientistsinschools.edu.au)  
[www.mathematiciansinschools.edu.au](http://www.mathematiciansinschools.edu.au)

### CREST - CREativity in Science and Technology



CREST is a non-competitive awards program. It encourages and supports primary and secondary school students to choose, organise and undertake their own practical science or technology project. CREST aligns with the Australian Curriculum and can be used for individual students, classes, year groups or a whole school activity.

For more information and online registration:  
[www.csiro.au/crest](http://www.csiro.au/crest)

## What do teachers think?

95% of teachers find programs related well to the curriculum and are likely to have a lasting positive impact on students.

*"The students haven't stopped talking about what a great morning they had - thanks!"*

*"Interactive, educational and extremely relevant to our current unit".*

*"Students get to participate hands-on to learn new things and confirm and share existing knowledge."*

*"Really great experience, very valuable! Thank you!"*

CSIRO Education's nine education centres see over 380 000 students and teachers annually and over 6 million have completed our programs.

**CSIRO Education operates in every state and territory.**

## Want more teaching resources?

### FREE ACTIVITIES:

[www.csiro.au/sciencemail](http://www.csiro.au/sciencemail)  
[www.csiro.au/diy](http://www.csiro.au/diy)

### AWARDS PROGRAMS:

<http://scienceawards.bhpbilliton.com>  
[www.csiro.au/crest](http://www.csiro.au/crest)  
[www.csiro.au/carbonkids](http://www.csiro.au/carbonkids)

### CSIRO SHOP:

[www.csiroshop.com](http://www.csiroshop.com)

CSIRO EDUCATION  
[www.csiro.au](http://www.csiro.au)



## CSIRO Education North Queensland 2013 Primary school programs

Hands-on science programs linked to the Australian Curriculum.  
Available as either incursions or excursions.

A PARTNERSHIP WITH:



### BOOKINGS / CONTACT US

t 07 4753 8632  
f 07 4725 7888  
e [education.nqld@csiro.au](mailto:education.nqld@csiro.au)  
w [www.csiro.au/educationnqld](http://www.csiro.au/educationnqld)

CSIRO Education  
James Cook University,  
Townsville, QLD 4811  
(Building 054, opposite Engineering

## Slime Time

 P-5  90 

Increase your students' understanding of the concepts of states of matter (solids, liquids and gases) with this fun-filled educational slime-making workshop.

## Cool Chemistry

**Available Term 2**

 6-7  90 

Students work on a series of hands-on experiments demonstrating reversible and irreversible chemical changes and use a variety of techniques to separate chemicals.

## Mini Beasts

 1-4  90 




Students discover the fascinating world of insects through guided hands-on activities which explore insects' similarity and differences to humans. Live insects are included.

## Astronomy Adventure

 P-4  90 

Hands-on activities related to living in space with optional telescope viewing session. Costs to be negotiated.

## Starlab

 P-7  45 (P-2) 60 (3-7) 

Using a portable mobile planetarium, students are taken on a journey to discover the sun, moon, stars and planets. Observations are linked to the Earth's rotation, day, night and the seasons.

## Space Science – **NEW!**

 5-7  90 

Activities focus on space exploration and how technologies are advancing our understanding of space. Optional telescope viewing session. Costs to be negotiated.

## Eco Enigma

 6-7  90 

Students become a team of scientists asked to provide an environmental impact report to a community with environmental problems. They measure heavy metal in shellfish, analyse river silt, explore why fish stocks are declining and recommend an action plan.

## Costs & general info

 **SCHOOL YEAR SUITABILITY**

 **MINUTES PER SESSION**

 **PROGRAM CAN TRAVEL TO YOUR SCHOOL**

Sessions are offered in-centre and *Lab-on-Legs* (travel to your school) with 30 students maximum per session. Unless noted, programs are available all year subject to bookings.

Prices GST free and valid 2013. Booking cancellation fees may apply for late cancellations.

### In-Centre

\$6.00 per student (minimum session fee \$120)

### Lab on Legs (in your school)

**Zone 1** (<30 km radius from NQSEC) \$170 per session.

**Zone 2** (30-150 km from Townsville) \$220 per session.

**Minimum 2 sessions of same program.**

**Zone 3** (>150 km from Townsville requiring overnight stay) \$260 per session.

**Minimum tour days apply depending on distance.**

**Minimum daily session fee \$540 per presenter. Concurrent sessions can be run including sessions for secondary students.**

**Curriculum links:** All our programs support the Australian Curriculum. For further details, please request our teacher information for individual programs.

TURN OVER FOR BOOKING AND CONTACT DETAILS

## CSIRO Discovery Lab

 1-7  90 

### Balloon Science Yr 1-3

Students use balloons as a context to learn about physical and chemical sciences.

### Natural and Processed Materials Yr 4-5

Students examine the properties of natural and processed materials and their uses.

### Energy and Change Yr 6-7

Students identify different forms of energy and investigate devices that transfer or transform energy.

## Rockhounds

 4  90 

Queensland is central to Australia's mining boom. This hands-on program looks at mining and exploration, how the Earth is formed, weathering and erosion and how rocks and minerals are classified.

## Natural Disasters – **NEW!**

**Available Term 3**

 6  90 

Students investigate the science behind natural disasters and extreme events. They learn about technologies used in the early detection of natural disasters and how their impacts can be minimised.

## Trainee Electrician

 4-7  90 

Turn your students into bright sparks with this hands-on introduction to electronics using safe experimental kits specifically designed for educational use.

## Toy Science

 P-2  60 

Students experiment with toys to investigate the forces which cause them to move and work.

## Force and Movement

 3-4  90 

This hands-on session gets students actively involved in discovering the principles of forces and movement and captivates students by relating this to the operation of toys.

## Simple Machines

 5-7  90 

Students are introduced to the concepts of structures and the workings of levers, gears and pulleys. The program includes hands-on explorative investigations and problem-solving activities.

## Beginner Robotics - Bee-bots

 P-4  60-90 

Students are introduced to the idea of a "program"—a series of instructions followed by a robot—and then create their own programs to solve a series of challenges.

## Robotics - NXT Generation

 5-7  90 

A robotics program designed to test the logical thinking and problem-solving skills of students. Using NXT robots, students learn to program their own robots to perform a series of challenges. Various sensors are used.

## Sounds of Science

 1-3  60-90 

Students explore the world of sound through hands-on experiments which focus on understanding how sound is produced and how it can be altered.

## Crime Busters

 4-5  90 

Students become crime scene officers to help investigate and solve a crime. They interpret and analyse evidence while discovering the intriguing science of forensics.

## Forensic Folly

 5-7  90 

Students take on the role of forensic scientists to help solve a crime. They interpret and analyse forensic crime scene evidence, which is then used to develop possible crime scenarios.