# Other programs for teachers and students:

#### Scientists in Schools

Scientists in Schools matches scientists and engineers with primary and secondary school teachers in ongoing partnerships. These are supported by resources, emails, phone calls and face-to-face events. Register for free online. www.scientistsinschools.edu.au

#### Mathematicians in Schools

Mathematicians in Schools matches mathematicians with primary and secondary school teachers in ongoing partnerships. These are supported by resources, emails, phone calls and face-to-face events.

Register for free online.

www.mathematiciansinschools.edu.au

## Double Helix Science Club



Get your hands on our two kids' science magazines with free online teacher's guides. There are big savings available on bulk subscriptions and free membership

available through the School Science Prize. The club also provides diverse scientific inspiration for students, including regular events and engaging holiday programs run by this centre.

www.csiro.au/helixschools & www.csiro.au/helixevents



#### What do teachers think?

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

"Great links to real life and science careers switches kids on. Excellent hands-on activities."

"The hands-on aspect of your programs is the best way for students to engage and hence learn about science."

"FANTASTIC!! Totally engaged the children. Terrific experience—motivating and linked to our topic. Thank you!!"

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

#### Want more teaching resources?

#### FREE ACTIVITIES:

www.csiro.au/sciencemail & www.csiro.au/diy

#### **AWARDS PROGRAMS:**

www.scienceawards.org.au & www.csiro.au/crest & www.csiro.au/resources/CarbonKids

CSIRO SHOP (teacher's resources): www.csiroshop.com

CSIRO Education operates in every state and territory.

#### **Bookings / Contact Us**

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# CSIRO Education South Australia

#### Primary school programs 2012

Travelling, curriculum-linked, hands-on programs for your students. Inspiring and educating young Australians.

A partnership with:





#### It's Illuminating







Light is produced by a range of sources. Explore how different materials respond to light.

Through simple hands-on activities and demonstrations students investigate some of the fascinating properties of light and colour.

Students are encouraged to share their ideas and describe changes they see. Throughout the session students use a range of methods to record their observations. \$4.50 per student.

#### Forensic Frenzy







When shots are fired during a robbery, Police launch an extensive manhunt for the perpetrators.

Your students will be the forensic team responsible for processing the evidence collected by the Crime Scene Investigators.

Developed in consultation with forensic experts working in the field, the program gives students an insight into a range of techniques used to analyse vital pieces of evidence. \$5.00 per student.

# Costs & general info



SCHOOL YEAR SUITABILITY



MINUTES PER SESSION



### PROGRAM CAN TRAVEL TO YOUR SCHOOL

Costs listed are per session per student. Minimum daily or session charges may apply and can be negotiated. Prices GST exempt and valid 2012.

Maximum 30 students per session. except Blown Away Science Show. Multiple sessions are available on the same day. Unless noted, programs are available all year subject to bookings.

Curriculum links—All programs are designed by teachers and have strong links to the curriculum, including energy change, natural and processed materials, science inquiry, science understanding and science as a human endeavour.

We travel to regional areas throughout South Australia contact us or check online for details.

TURN OVER FOR BOOKING AND CONTACT DETAILS

#### Electric







Students are introduced to the basic principles of electricity and circuits. The techniques used and circuits built are specific to different year levels.

Schools may choose from 3 programs:

#### Electroflash – Introduction to Electricity/Electronics

Using the Electroflash kits students are introduced to simple circuits and several basic components used in everyday circuits. Students use a unique magnetic joining system which replaces the wires, clips and other items needed for teaching electricity.

When booking the Solderless Circuit or Soldering-Soil Moisture Indicator. We recommend schools also book Electroflash to reinforce their students learning.

#### Solderless Circuit

Each student builds and keeps their guiz based working circuit. They build the circuit without soldering, joining wires using a simple method of crimping.

#### Soldering - Soil Moisture Indicator

Students use traditional soldering techniques to construct a soil moisture indicator. During the session students are taught the correct method of soldering while assembling the circuit.

Electroflash program \$5.00 per student; solder-less program and soldering program both \$7.00 per student (includes materials).

#### Mini-Chem





Students participate in hands-on experiments and have an opportunity to appreciate the processes and skills used in a laboratory setting. Students carry out simple experiments involving observing chemical and physical changes, recording data and making inferences. Through this, students gain a deeper understanding of the role of scientists in our community. Experiments focus on acids and bases, separation techniques, gas collection, electrolytes, precipitates and problem solving.

This program alternates each year in a two year rotation, giving schools the opportunity for classes to learn something different about chemistry every year. \$5.00 per student.

#### Blown Away Science Show







Blown Away provides an exciting introduction to the concepts of particle theory and the gas laws. Students will be thrilled by many spectacular chemical reactions which cover concepts including states of matter, expansion and compression of gases, diffusion and much, much more. A fun way to present some

#### Robotics On The Run





\$3.50 per student.



Explore why robots are able to perform a variety of tasks and gain an understanding of the role robots play in research and our everyday life.

scientific reactions that will prompt discussion and

numbers depend on venues schools have available.

can be explored more deeply back in class. Maximum

Using a robot vehicle built around a RCX Lego<sup>TM</sup> Brick, which is a small computer, students will discover how programming relates to the actions carried out by the robot.

A range of engaging activities have been designed to give students the opportunity to apply their newly acquired knowledge of programming. Through negotiation prior to the day, schools can tailor design their program to suit their needs. \$5.00 per student.

#### Cool Chem!—Polymers & Materials





These exciting hands-on activities give students an insight into the fascinating world of chemistry. Experiments make use of everyday items and show how raw materials can be converted into useful products. Scientific areas covered include chemical reactions, energy and temperature changes, detecting chemical changes and methods of separation. \$5.00 per student. Available Term 4 Weeks 2-9.