2012—The Final Year of the Three-Year Earth Smart Science Program

In the School Planning, Reviewing and Reporting Framework 2012–15: The improvement and accountability framework for Queensland State Schools, it’s noted that School improvement strategies embed environmental management (water, waste, energy and biodiversity) strategies...

The Earth Smart Science (ESS) program started in 2010 to provide State primary schools with the tools and resources to enable this to happen, as sustainability has long been a departmental priority (Enough for all forever).

Sustainability is a cross-curricula perspective of the national curriculum. ESS is Queensland’s contribution to AuSSI (Australian Sustainable Schools Initiative). As the regional hub for ESS, Paluma EEC is pleased to provide schools with support targeted to the achievement of the SPRR requirement. We offer Earth Smart Science schools the following:

♦ A tool for qualitative assessment of the school’s ecological footprint. The Indicators for a Sustainable School are to be completed at the beginning and end of the year to record “distance travelled”. The Indicators are also used by Central Office to review the success of ESS as a departmental program. We will introduce the Indicators and ESS to your staff at one of your staff meetings in Term One and will contact you soon.

♦ An online tool for building your School Environmental Management Plan (SEMP). The SEMP is the best way to ensure that departmental targets for energy, water and waste are achieved. We will make on-site visits to schools to assist Principals and selected teachers build the SEMP. Suggested dates are on page 8.

♦ An online tool for monitoring your resource use. We will run workshops to introduce your BSM/ AQ2 to the Resource Monitoring module, and will make on-site visits to schools to assist with data entry if necessary. Suggested dates are on page 8.

♦ We run after school PD sessions for teachers, often in collaboration with local Primary Science Facilitators. These workshops will have a strong focus on the hands-on skills needed to implement the C2C Science units. Suggested dates are on page 8.

♦ This year, we will run after school sessions for HOCs, focusing on making the links between Science and Sustainability. Dates are yet to be confirmed.

♦ We run free Earth Smarties environmental education for sustainability excursions at Paluma for selected student environmental leaders. As well as hands-on skills in assessing sustainability, students draft a school action plan that you can feed into your SEMP. You need to identify those Year 6 students as part of your student leadership group. Suggested dates are on page 8.

In 2012, we enrol our final 25 primary schools, in Townsville and Bowen-Whitsundays. If your school is on the list below, please read on, check our tentative dates on the last page against your school calendar, and let us know of any that do not suit.

TOWNSVILLE (16)
- Aitkenvale
- Annandale
- Bluewater
- Bohle Valley
- Cranbrook
- Garbutt
- Kelso
- Kirwan
- Magnetic Island
- Oonoonba
- Rasmussen
- Rollingstone
- Townsville West
- Vincent
- Weir
- Wulguru

BOWEN – WHITSUNDAYS (9)
- Bowen
- Cannonvale
- Collinsville
- Hamilton Island
- Hayman Island
- Merinda
- Proserpine
- Queen’s Beach
- Scottville

In this Newsletter

Earth Smart Science Schools in 2012
Environmental Education News
Information QYEC & Application Form
CarbonKids
Primary school EE opportunities
Secondary school EE opportunities
Date Claimers for the 2012 Earth Smart Science Schools
Environmental Education for Sustainability News

Sustainability curriculum mapping—the journey begins

At Paluma Environmental Education Centre, we’ve begun the process of mapping our existing excursion programs against the C2C Science units, as they are released (see excerpt from Term One below). Three findings have already become obvious:

1. Many of our existing excursion programs support C2C Science (and others will support History &/or Geography)
2. There are opportunities for us to develop new excursion programs that target the delivery of specific C2C units—we may even be able to offer these to teachers in “block mode”
3. Some C2C units will be best delivered in the classroom or laboratory, not through our Learning Beyond the Classroom pedagogies

<table>
<thead>
<tr>
<th>YEAR LEVELS</th>
<th>Paluma EEC residential program/s (existing) (Australian Curriculum focus)</th>
<th>EQ C2C UNIT (Unit One)</th>
<th>Australian Curriculum Cross-curricula perspective (Sustainability) Organising Ideas</th>
<th>Australian Government Sustainability Curriculum Framework concepts</th>
</tr>
</thead>
<tbody>
<tr>
<td>YEAR 4</td>
<td>NEW EXCURSION PROGRAM TO BE DEVELOPED (human impact &amp; natural processes; natural disasters; erosion)</td>
<td>Unit 1: Here today gone tomorrow In this unit, students explore the effect of human activity, natural disasters and extreme weather that cause erosion of the Earth’s surface.</td>
<td>Systems OI.2 All life forms, including human life, are connected through ecosystems on which they depend for their wellbeing. OI.3 Sustainability of social and economic systems is closely related to sustainability of the environment.</td>
<td>Ecosystems &amp; local environments Features of local terrestrial &amp; aquatic environments, their change over time &amp; indicators of the state of their health Change in living systems Techniques for investigating, assessing &amp; describing physical environmental features Weather &amp; climate Systems put in place to manage weather &amp;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Unit 1: Survival in the Australian environment In this unit, students examine the structural features and adaptations that assist living things to survive in their environment. They use this new knowledge to pose questions and make predictions about the relationship between adaptations and environmental changes.</td>
<td>Systems OI.2 All life forms, including human life, are connected through ecosystems on which they depend for their wellbeing.</td>
<td>Life cycles Subsystems that enable life &amp; reproduction in living things, including support &amp; movement, digestion, circulation, respiration, sensing &amp; response, reproduction Ecosystems &amp; local environments Adaptations, roles &amp; relationships among fungi, plant &amp; animal species &amp; their physical environment in local gardens &amp; natural ecosystems; food chains, food webs &amp; cycles of energy &amp; materials</td>
</tr>
<tr>
<td>YEAR 5</td>
<td>Improving Biodiversity (Insect trapping)</td>
<td>Unit 1: Survival in the Australian environment In this unit, students examine the structural features and adaptations that assist living things to survive in their environment. They use this new knowledge to pose questions and make predictions about the relationship between adaptations and environmental changes.</td>
<td>Systems OI.2 All life forms, including human life, are connected through ecosystems on which they depend for their wellbeing.</td>
<td>Life cycles Subsystems that enable life &amp; reproduction in living things, including support &amp; movement, digestion, circulation, respiration, sensing &amp; response, reproduction Ecosystems &amp; local environments Adaptations, roles &amp; relationships among fungi, plant &amp; animal species &amp; their physical environment in local gardens &amp; natural ecosystems; food chains, food webs &amp; cycles of energy &amp; materials</td>
</tr>
<tr>
<td></td>
<td>What’s in the Water? (Macro invertebrates)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Vanishing Australians – The Cassowary (structural adaptations &amp; survival)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Environmental Education for Sustainability News

Outdoor & Environmental Education Centres perform well in inaugural Teaching & Learning Audits

Putting to one side the justified controversy surrounding the release of the Teaching and Learning Audit results; it was very pleasing to see the positive stories in the Courier Mail and on Channel 7 News on Saturday (28 January) with respect to the performance of the O&EECs. The link below to the Courier Mail article is an expanded story to the one in the paper, with an excellent section provided by Noeleen Rowntree from Bunyaville EEC.


Also impressive on the Channel 7 News was the revelation that four of the top six education facilities in the teaching and learning audit were; O&EECs (Barambah EEC, Bunyaville EEC, Maroon OEC and Tallebudgera OEC. Paluma EEC received one Medium (Teaching Team), one Outstanding (Learning Culture) and the rest were all Highs. Our next T&L Audit is scheduled for Term Two, 2012.

Coles Junior Landcare Grants

The Coles Junior Landcare School Garden Grants Round One is open until 17 February. These grants are up to $1000 and are of particular interest to schools which have an NQ Dry Tropics land management plan through the Healthy Habitat for Schools program. The grant could assist you to create a veggie garden or a bush tucker garden!

Preference is given to applications which:

♦ Demonstrate strong environmental education outcomes & links to school curriculum
♦ Involve the following groups—Landcare groups & Natural Resource Management Organisations; local government; parents, the wider community & community groups; local business
♦ Promote leadership & environmental stewardship
♦ Directly engage students in on-ground environmental sustainability activities
♦ Support a range of activities

Contacts

• If you need assistance to partner with your local Landcare group, contact peter.arthofer@nqdrytropics.com.au
• For information about other natural resource management groups, contact laura.dunstan@nqdrytropics.com.au
• For information about Healthy Habitat for Schools program, contact joanne.cross@nqdrytropics.com.au (Mon/ Tues)

Other grants opportunities

Keep up to date on current grants available by checking the website http://deta.qld.gov.au/yes/grants.html

Paluma EEC has been awarded a Reef Guardians ‘Ripples of Change’ Award. The grant will be spent on enhancing the seven macro invertebrate kits we have available for borrowing by schools (4x insect trapping, 3x water bugs). 

Hire fee is $15 a kit.
Phone Jan on 07 4772 9555
Magnetic Island State School

Energy Efficiency Case Study

Magnetic Island State School is educating the next generation in sustainability through its environmental program and partnership with the Townsville Queensland Solar City project. The school is taking a staged approach to improving its energy efficiency in classrooms and public access areas.

Network Measures
- 1.24 x 1.25 watt photovoltaic panels installed at a 10° tilt
- Two 8.1 kilowatt systems
- 3 SMA Sunny Boy inverters
- Target 9,500 kilowatt hours per year

Property Measures
- Comprehensive energy audit by accredited Solar City assessors
- Painted 2,136 m² of rooftop with heat reflective paint
- Replaced fluorescent lights with Triphosphor tubes
- Delamped overlit classrooms
- Replaced all spotlights with compact fluorescent Para Floods
- Energy efficient tips presentation to students
- Engaged Ergon Energy to run an energy conservation program and workshop for year 5 and 6 students

Magnetic Island State School

Cradled by the surrounding national park, Magnetic Island State School is located in Nelly Bay. Almost 200 students are enrolled in seven primary school classes and one preparatory class.

Teachers and students are committed to environmental conservation and sustainability and the school is leading by example with the initiatives it is implementing as part of the Solar City project. In May 2013, students were visited by celebrity tradesman Scott Cam who shared his own tips on energy conservation at school and in the home during the Solar Suburb Trade Expo.

A Bright Partnership

In April 2009, the Solar City project partnered with the Magnetic Island State School to implement a range of energy efficiency measures. Initiatives can be divided into those that were implemented by Ergon Energy to support the electricity network on the island and measures to support the school to invest in energy saving infrastructure, upgrades and education.
**Environmental Education for Sustainability News**

**Sustainability Outcomes**
Energy savings from property measures are depicted in the graphs below for the Magnetic Island State School. As solar energy generated by the photovoltaic panels goes directly into the electricity grid, the impact cannot be seen on these graphs.

![Graphs showing energy savings](image)

**Magnetic Island Solar Suburb**
Ergon Energy's Magnetic Island Solar Suburb is the focal point of the Townsville Queensland Solar City project.

The Magnetic Island Solar City team works closely with stakeholders to show how the integration of solar power, smart meters, energy conservation, peak demand management and new energy pricing options can meet the island community’s needs, reduce its carbon footprint and defer network investment.

By working in partnership with residents, visitors, businesses and property owners the project garner support for sustainable behaviour and practice. As part of the initiative, Ergon is also conducting research on electricity usage to develop future sustainable energy use models.

**Wider Significance**
The project has broad national and international significance as it will inform future community and business energy models throughout Australia and the world. Learnings are already being transferred to other projects in regional Queensland including Mackay, Mt. Isa and Torres Strait.

---

**For more information**
Julie Heath
julie.heath@ergon.com.au
ergon.com.au
Queensland Youth Environment Council

Information Sheet for 2012 Applicants

The Queensland Youth Environment Council (QYEC) is a diverse group of young Queenslanders aged between 15 and 25 years. The inaugural Council was formed in May 2007 for the purpose of providing advice to the Queensland Government through the then Minister for Sustainability, Climate Change and Innovation, and the Minister for Education, Training and the Arts on key environmental and sustainability issues (including climate change, water use, renewable energy, waste and biodiversity conservation). The Ministers also asked Council members to act as youth leaders to enhance awareness, and inspire other youth to take action to achieve a more environmentally sustainable Queensland.

Members are selected from across the State through the education sectors and key stakeholder groups. The term of appointment for the next round of successful applicants is four years, commencing May 2012 and finishing in May 2016. Council meetings and strategic initiatives are supported by a Secretariat within the Department of Environment and Resource Management (DERM). The Department of Education and Training (DET) also provides financial and in-kind support for these activities. Members’ travel, meals and accommodation costs relating to attendance at QYEC meetings are organised and paid for by the Secretariat.

QYEC members come together for face to face meetings two to three times per year to develop policy advice and youth engagement strategies. One or both Ministers usually attend part of these meetings. The Council also holds monthly coordination meetings with members outside Brisbane participating by teleconference. Two working groups progress policy and engagement initiatives between general meetings. Current members spend a minimum of two full days on Council business each month.

QYEC has completed policy papers on renewable energy, water demand and supply, waste, communicating climate change to youth and education for sustainability policy directions. The Council also sponsored the Youth and Environment Survey in 2008-2009. This can be viewed on the QYEC website (www.qyec.org.au). Members also provided a submission to Building Nature’s Resilience – Queensland’s Draft Biodiversity Strategy in April 2011 and most recently, the Queensland Parks and Wildlife Service Master Plan – Naturally Queensland 2020 consultation.

Council members have participated in a number of engagement activities and conferences, including:

- February and March 2011 – running a booth at the University of Queensland O-week market day and the Griffith University Nathan Campus market day, engaging students in quizzes and discussions about low carbon lifestyles and conscious consumption.
- March and October 2011 – Two day roadshows to the Darling Downs, inspiring and supporting secondary school students to form and run effective environment clubs.
- March 2011 – the One World One Week challenge where participants reduced their ecological footprint to the size of one world culminating in a BBQ celebration lit by candle light during Earth Hour
- April 2011 – a re-fashion parade held during Youth Week designed to create environmental awareness, encouraging young people to think about what they own, what they consume and where it comes from in line with the youth week slogan, “own it”.
- May 2011 – touring the Mackay Convention and Exhibition Centre’s sustainability initiatives with the former Minister for Environment and Resource Management, Kate Jones.
- June 2011 – playing QYEC’s own carbon lifestyle game, Green or Greedy, with students at Hillbrook Anglican School’s annual Sustainability Day
- June 2011 – hosting a youth roundtable on World Environment Day in Toowoomba, inspiring local students to take action
- June 2011 – engaging and training Townsville secondary students to assist them convening environment clubs in their schools, as part of the QYEC Full Council Meeting at Paluma Environmental Education Centre
- July 2011 – Sponsored and chaired sessions at the World Environmental Education Congress in Brisbane
- August 2011 – volunteering and facilitating a workshop at the Kids Teach Kids conference on the Sunshine Coast, inspiring students to look at their local eco systems differently through picture frames and poetry
- September 2011 – attending and presenting at the Queensland Landcare Conference in Ayr.

For students to apply to be part of the council, they will need to download and complete the application form from the QYEC website: www.qyec.org.au.
CarbonKids Application Form

School:

Contact Person:

Address:

Phone/ Facsimile:

Email:

CarbonKids Commitment
Our Staff and Students pledge to undertake the following: (Please tick the undertakings your school are going to commit to)

☐ Establish a CarbonKids Leadership Team
☐ Appoint a CarbonKids contact person in the school
☐ Arrange for an initial staff briefing on the CarbonKids program
☐ Use the CarbonKids curriculum resources and program ideas
☐ Develop a CarbonKids Action Plan
☐ Participate in climate change education activities appropriate to year levels across a variety of key learning areas
☐ Encourage students to educate their families about climate change and ways to tackle it
☐ Document your journey as a CarbonKids School

Principal’s Signature:

Date:

The CarbonKids pilot program was supported by Shell
Primary school sustainability opportunities

CSIRO CarbonKids
The CarbonKids program is an innovative school-based education program that combines the latest science with sustainability education. It enables school communities to understand climate change and encourages schools to commit to tackling climate change through positive actions that make a direct contribution to becoming more sustainable. CarbonKids is an exciting CSIRO initiative with funding support from Bayer.

As a registered CarbonKids School, you receive:
1. Mailed registration kit: Hard & electronic copies of curriculum units, Scope DVD, electronic copy of rich literacy texts, additional hard copy resources and a copy of CSIRO Home Energy Saving Handbook
2. Free professional development sessions via videoconferencing, with certificates for teachers who attend these and other PD sessions.
3. Professional CarbonKids Support by phone and email.
4. Access to CSIRO scientists and information through CarbonKids Climate Science Workshops, podcasts, vodcasts and, where appropriate, emails directly to scientists.
5. Exclusive invitations to Climate Science Workshops and certificates for students who attend climate science workshops.
6. Access to the exclusive CarbonKids wiki site.
7. Invitations to enter CarbonKids competitions and win CSIRO prizes.
8. Assistance with Grant Applications for programs that will support CarbonKids.
9. Certificates acknowledging participation in the CarbonKids program each year.

To register, fill out the registration form attached to this email and return to Heidi.Streiner@csiro.au or fax to 07 4725 7888.

Conservation Volunteers Australia — Creekwatch program
Creekwatch offers students practical, fun and educational methods of learning about their local environment. Creekwatch offers activities tailored to school needs, including in class presentations, catchment tours and water quality monitoring events, focusing on a range of environmental issues including healthy waterways, catchment management and sustainable development.

Contact Mick Brady, Phone 0428 533 078

Celebrate the Sea Festival
A celebration of Clean Up Australia Day and National Seaweek—
A curriculum linked field trip for schools where students will learn from local scientists and traditional owners. Fun for the whole school community with educational activities, entertainment and food.

Sunday March 4th
Walter Nesbit Park (end of Cape Pallarenda Road, Townsville)
8am – 10am Clean up of the beach & park
10am – 1pm food and festivities

Register at the NQ Dry Tropics tent
For further information: www.nqdrytropics.com.au/whats-going-on
Telephone: 4724 3544

Clean Up Australia Day
Take a step towards achieving your sustainability goals! Register your school to participate in one of Australia’s largest community events, the 2012 Schools Clean Up Day on Friday 2 March.

Register for Schools Clean Up Day to receive:
- A Schools Clean Up Kit – complete with bags, gloves and resources to help you plan your event
- Your own School's Clean Up Day webpage and access to CUA educational resources.
- The opportunity to enter the new CUA Green Kids Award. Clean Up Australia is excited to offer a new video competition for schools in 2012. The Green Kids Award is proudly sponsored by the 2012 release of Dr Seuss’ The Lorax – in cinemas March 29. This award gives your school the chance to showcase your environmental projects and to win some fantastic prizes! For more information, visit www.cleanupaustraliaday.org.au or call Jillian Hutchinson on 1800 CUA DAY (1800 282 329).

Reef Guardians School Networking Events (Term One)
Townsville – Wednesday 15 February 5:00-6:45pm (Museum of Tropical Queensland)
Charters Towers – Thursday 16 February 4-6pm; Collinsville – Wednesday 22 February 3.30 – 5.30pm
 Bowen – Thursday 23 February 3.30-5.30pm; Ingham – Monday 27 February 4-6pm
 Palm Island – Tuesday 28 February 3.30-5.30pm; Burdekin (Ayr) – Thursday 1 March 4-6pm
 Whitsundays – Tuesday 20 March 3.30-5.30pm; Mackay - Thursday 22 March 3.30-5.30pm

RSVP for Townsville to Sally McPhee <Sally.McPhee@gbrmpa.gov.au> by 1 February.
Secondary School Programs & Grants

Queensland Youth Environment Council applications close Friday 17 February

QYEC is encouraged by environmental and sustainability initiatives already underway in schools and is asking NQ schools to consider nominating a student for one of the 10 positions available on the Council. The application form and an information sheet are attached to this email. The Queensland Youth Environment Council (QYEC) is a Ministerial advisory council and provides the Queensland Government with a youth perspective on key environmental sustainability issues. Council members also act as youth leaders to enhance awareness and inspire other youth to take action to achieve a more sustainable future for our state. To be eligible for a position on QYEC, applicants must:
- be aged between 15–25 years at time of appointment;
- be a permanent resident of Queensland; and
- have an interest in environmental and sustainability issues

Please don’t hesitate to call Ali Van der Graaf if you require any further information about the nomination and selection process.
Phone 07 3330 5890 Email ali.vandergraaf@derm.qld.gov.au Web: www.qyec.org.au

RIO+20—United Nations Conference on Sustainable Development

At Rio+20 prime ministers, presidents and royalty will join with public servants, business, environment and community groups, aid organisations and more to discuss how we can continue to protect the environment while working together for a healthy society and a strong economy.

The conference is called Rio+20 because it will mark the 20th anniversary of the 1992 United Nations Conference on Environment and Development in Rio de Janeiro. It will be an opportunity for the world to have a fresh look at the three dimensions of sustainable development—economic prosperity, social improvement and environmental protection. The United Nations wants to hear from young people about these issues, because the conference is all about the future.

How can you and your students be involved?

You don’t have to travel to Brazil to be involved in talks and activities around sustainable development. All around Australia communities and schools are working together to become more sustainable through taking action to save energy and water, to reduce waste, and to better understand the diversity of our plants and animals. The AuSSi initiative (QESSI in Queensland) and the Australian Curriculum’s cross-curricular priority of ‘sustainability’ are shaping change and creating an informed cohort of young people. QYEC looks forward to working with you and your students in 2012.. Contact Ali Van der Graaf (details above).

BP Education Grants

The BP Education Grants program was established in 1992 with the aim of providing schools with an opportunity to enhance learning by broadening student perspective beyond the traditional classroom environment. BP continues to encourage schools to initiate or continue projects that add value to the school, the community and business environments. To celebrate the program’s 20th anniversary, we will be offering all Secondary schools the opportunity to apply for a BP grant up to the value of $10,000. All applications must cover one or more of the following themes:
- Science and Technology centres around how things work and the development of ideas about ways to make them work better.
- Technology is the use of this scientific knowledge through specific methods, materials, and devices to help solve practical problems and create new concepts.
- Sustainability—demonstration of methods, systems and materials that won’t deplete resources or harm natural cycles. They meet present needs without compromising the ability of future generations.
- Alternative Energy—use of natural energy such as sunlight, wind, rain, tides, and geothermal heat to replace or supplement traditional fossil-fuel sources, as coal, oil, and natural gas.
- Engineering—application of scientific and mathematical principles in the design, manufacture, and operation of structures, machines, processes, and systems.

Applications close on Friday 3rd February 2012, with successful applicants receiving their cheque a few weeks later. The judging panel will consist of representatives from BP, Independent Schools Queensland, Queensland Catholic Education Commission and Education Queensland. This year, the judging panel will be paying particular attention to projects which have approached one of the key themes in an innovative and creative way. Consideration will also be given to the project’s timeline and budget, determining whether they are realistic and achievable given the scope of the project.

Important Dates

Applications close – Friday 3rd February
Successful Applicants notified – Friday 17th February, 2012
Cheque delivered to Schools – March, 2012
School Presentation – October / November 2012

Conditions of Entry

Only Queensland Secondary Schools are eligible to apply for the QLD Education Grants Program.
Projects must include one or more of the key themes.
Grant money to be used for the sole purpose of completing the project as indicated on the application form.
The School Principal have approved the application prior to submission.

Schools awarded a BP grant agree to host a visit from a BP Representative to present their winning project later in the year.
Projects will not be entered in a competition that provides prize money.
Funding will not be granted for travel, teacher’s relief salaries or competitions that involve prize money.
Grant money may only be used to pay for specialist staff if their skills are unavailable within the school.
Schools may submit multiple applications but schools will not be awarded more than one grant.
Maximum grant available is $10,000. Applications with a total project budget exceeding $10,000 require an accompanying letter from the school principal confirming balance of funding.

Contact Details—Vanessa Morris, PO Box 4, Pinkenba, Qld 4008. Ph.: (07) 3243 7603, Fax: (07) 3243 7301, Email vanessa.morris@bp.com
Enough for all, forever

EARTH SMART SCIENCE IN NORTH QUEENSLAND—2012 DATES

In-school SEMP Writing Workshops—please check your availability

♦ Townsville schools—We can visit 2 schools a day, 2 weeks are available beginning 14 & 21 May
♦ Merinda 28 May
♦ Bowen 29 May
♦ Queen’s Beach 29 May
♦ Hayman Island 30 May
♦ Cannonvale 30 May
♦ Hamilton Island 31 May
♦ Proserpine 1 June
♦ Collinsville Week beginning 4 June
♦ Scottville Week beginning 4 June

This is the DETA Strategic Plan from which the Earth Smart Science program was derived.

In-school Data Inputting training for BSMs/ AO2s

♦ Townsville schools—We can visit 2 schools a day, 2 weeks are available beginning 12 & 26 March
♦ Collinsville & Scottville 23 February
♦ Bowen, Merinda & Queen’s Beach 24 February
♦ Hayman Island 20 March
♦ Hamilton Island 21 March
♦ Cannonvale 22 March
♦ Proserpine 23 March

After School Teacher PD Workshops

Cluster PD for Townsville teachers (after school 4-6pm)

♦ Year 6 Energy 21 February
♦ Years 2&4 Insect & water bug trapping Term One
♦ Year 7 Water Term Four
♦ Years 6&7 Insect & water bug trapping & identification using dichotomous keys Term Four

In-school PD days for Bowen-Whitsundays teachers

♦ Collinsville/Scottville 23 February
♦ Bowen/ Merinda/Queen’s Beach 24 Feb
♦ Hayman Island 20 March
♦ Hamilton Island 21 March – Year 6 Energy
♦ Cannonvale 22 March – Year 6 Energy
♦ Proserpine 23 March – Year 6 Energy

Cluster PD for Bowen-Whitsundays teachers (after school 4-6pm)

♦ Year 7 Water Term Four
♦ Years 6&7 Insect & water bug trapping & identification using dichotomous keys Term Four

Earth Smarties Student Environmental Leaders Excursions at Paluma—FREE!
The number of Year 6 students eligible to attend from each school is in brackets.

Bowen—Whitsundays schools
1. 12 - 14 June—Bowen (4), Cannonvale (4), Collinsville (2), Hamilton Island (2), Hayman Island (2), Merinda (2), Proserpine (6), Queen’s Beach (4), Scottville (2) - TOTAL 28 STUDENTS

Townsville schools
2. 16-18 July—Annandale (6), Bohle (6), Cranbrook (6), Kirwan (6), Magnetic Island (4), Weir (6) - TOTAL 34 STUDENTS
3. 18-20 July—Althkenvale (4), Bluewater (4), Garbutt (4), Kelso (4), Oonoonba (4), Rasmussen (4), Rollingstone (2), Townsville West (2), Vincent (4), Wulgunu (4) - TOTAL 36 STUDENTS

NO West schools (excursions not delivered in 2011)
4. 10 - 13 July — Barkly Highway (4), Camooweal (2), Happy Valley (4), Healy (4), Mount Isa Central (4), Sunset (4), Townview (4), Uranadgig (2), Dajarra (2), Bouli (2) - TOTAL 32 STUDENTS
5. 24 - 27 July—Julia Creek (2), Cloncurry (6), Richmond (4), Doomadgee (6), Burketown (2), Gregory Educational Facility (2), Normanton (6), Karumba (2), Murrington Island (6) - TOTAL 36 STUDENTS

Last chance for 2010 & 2011 ESS schools to send selected student leaders to A FREE Earth Smarties EXCURSION
6. 31 July – 3 August - Forest Beach (2), Ayr (4), East Ayr (4), Kalamia (2), Charters Towers Central (4), Ravenswood (2), Cameron Downs (2), Prairie (2), Stalmond (2), Currajong (6) TOTAL 36 STUDENTS

Contact Details
Phone 07 4772 9555 or 07 4770 8528
Linda Venn lvenn1@eq.edu.au Principal
Louka Lazaredes lla2@eq.edu.au Teacher
Joanne Cross jiros172@eq.edu.au Teacher
Ashley McLachlan amcla95@eq.edu.au Teacher
Jan Richardson jrich426@eq.edu.au Teacher-Aide