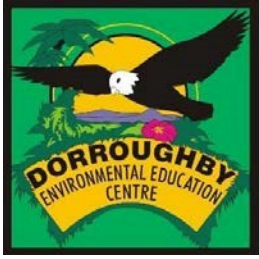


Dorrroughby Environmental Education Centre



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DORROUGHBY EEC TERM 4 2018

Please distribute this newsletter to all teachers interested in Sustainability Education.



GENERAL NEWS

Jingelah Bloggerman! Hello Colleagues.

In term 4 DEEC has been busy engaging in great science, geography and environmental stewardship activities. We have loved walking in the cool sub-tropical rainforest and learning about Coastal Management at Belongil, Wategos, Byron and Ballina. We have also enjoyed paddling on the Brunswick River for our fieldwork trips, assessing human impact, collecting data on abiotic factors and water quality. We ran a new incursion at Rosebank PS looking at the secret life of Marvellous Microbes. Once again DEEC is grateful to have enjoyed another wonderful term where teachers book with us and lend us their students for a day or 3. Thanks also to the students who have learnt with us in the outdoor setting.



Teachers and students from Bryon High School engaged in a kayak excursion to explore the impact of humans on our local waterways, culminating in a Marine Debris Clean up on Brunswick Beach.



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Marvellous Microbes:

This term DEEC collaborated with Rosebank P.S's principal, Justine Coyle and Mr Boden Yates (head teacher of science from Richmond River Secondary College) to create an exciting 2 x half day incursion about the fascinating life of microorganisms. Day one the Stage 2-3 students learnt about how germs are spread and then swabbed objects around the school with cotton buds. These buds were then gently rubbed over agar in petri dishes, labelled and put in a warm place out of direct sunlight. The students also pressed clean and dirty fingers onto the agar to test the growth of microbes on their hands. The students observed insect (and arachnid) body parts through microscopes. Next week we will return to Rosebank to assist the students to conclude their swabbing experiment - see what growth has happened on the agar and observe them under a microscope; discuss where the most virulent microorganisms were and hypothesize as to why; learn about the scale of microorganisms and generally have Marvellous Microbial Fun doing Science!

No.	Object that was swabbed	Who swabbed the object
1	Classroom door handle	Lucas + Liam
2	Bottom of a student's shoe	Lucas + Liam
3	School toilet seat	Lucas + Liam
4	Teacher's mobile phone	Lucas + Liam
5	Student's hands after washing with antibacterial hand wash	Lucas + Liam
6	Front cover of a library book	Lucas + Liam
7	A computer keyboard	Lucas + Liam
8	Inside of refrigerator in staffroom	Lucas + Liam
9	Play equipment	Lucas + Liam
10	Lunch tables	Lucas + Liam
11	Inside of playground garbage bin	Lucas + Liam
12	Money	Lucas + Liam
13	Money	Lucas + Liam
14	Light switch	Lucas + Liam
15	CONTROL	
16	BIRD BATH	Lucas + Liam
17	CHAIRS	Lucas + Liam



School Environment Management Plan (SEMP) building

This term Tweed River HS, The Channon PS and Collins Creek PS students have been engaged with DEEC SEMP building incursions. We toured around schools helping students audit their waste, water, grounds and energy consumption/production leading to the creation of individual school SEMPS.

Book one for your school its FREE!!!!

Thanks to the students and staff from Woodenbong CS and the Murri School for successful learning camps and to the many teachers and students who visited DEEC or our field study sites this term. We hope you and your families have a safe and relaxing end of term break. See you in the New Year.

Team Dorrroughby.



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Programs on offer...

Kayak program: DEEC is happy to offer kayaking excursions in our local waterways for primary and high schools. Cost is \$20 per student but kayak numbers are limited. DEEC are happy to take small groups for an educational paddle or split a class to do on shore activities and a paddle in rotation.



Stage 5 Geography Program at Cabarita Beach and Brunswick Heads:

DEEC has collaborated with Geography teachers to create a day of activities at Cabarita Beach or at Brunswick Heads. Activities complement the new Geography syllabus and give the students a hands on day using Geographer's Tools and equipment to collect and analyse data. We have also modified this program to suit schools - and used the sites of Belongil and Wategos Beaches this term.

Senior Science: New Syllabus Senior Science Depth Studies: A day with DEEC at one of our field sites could be the jumping off point for your Senior Science Depth Studies. We use tools to measure and compare abiotic and biotic features in Dry Schlerophyll and Sub Tropical Rainforest; and can set up scientific inquiry projects at aquatic/marine sites. Ring and discuss it with DEEC teaching staff.

Bunya the school yard fairy

This term our office has been busy with mail in relation to our K-2 Need for Shelter excursion. Students have been receiving correspondence from our newest (littlest) teaching assistant; Bunya the Schoolyard fairy. She is very excited to help students learn about what the animals at DEEC needs are with regards to shelter and to find out what the habitat is like for animals in your schools. Since we have started listening to the little people we have noticed fairy houses popping up all around DEEC.



Botanical Illustrations: DEEC has developed a new multistage program where students learn about plant adaptations, the big scrub rainforest and how to make a botanical illustration of the trees in your school yard. Your school may wish to use these illustrations to create a student made plant guide for your school.

Stage 4 Geography Program at Ballina Flatrock: DEEC has collaborated with Geography teachers to create a day of activities at Ballina Flatrock that complement the new Geography syllabus topic - LIVABILITY. Activities involve dissecting Ballina's services, learning about the Indigenous past of the area and using Geographer's Tools to collect data - flora and fauna transects, field sketches, coastal abiotics and mapping.

Stage 2-3 Colonial History Program: DEEC staff has a fabulous History Program for Stage 2-3. This is a day program that can stand alone or become part of a 2-3 day camp. The emphasis on the 1880s - way of life of the Cedar Getters and their family, how this changed the Bundjalung Nation's lives and the impact it had on Country. Students are taken back to a bygone era and can take part in activities



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like butter-making etc., meet a cedar-getter role play, engage in an old school house and play colonial games. **Stage 5 History Programs:** DEEC staff has been working to expand DEEC's repertoire of programs based on the new Australian History Curriculum. We have developed a 2 day excursion that compliments the Stage 5: History - Depth Study 5: The Globalising World - The environmental movement (1960s - present) and we are still looking for a Year 11 class to trial it with.

Bush Tucker Program: DEEC run a Bush Tucker Day Program. Students learn about Bundjalung Culture - Bush Foods and Medicines from this area. They then cook and share a meal using local ingredients. What bush tucker is fruiting in your school yard?

Highlights from Term 3:

- 1-2. Murri School visits DEEC
- 3. Students kayaking and testing on the Brunswick River
- 4. 500 students from Lismore gathered at Spinks Park for the School Strike for Climate Action
- 5. Students learn about water quality and rainforests at Rocky Creek Dam
- 6. Students enjoy using our microscopes



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