

**World Environment Day Station Summary 2014.**  
**Plan your stations and Print this for Teachers and parents.**

**Station 1 Kitchen Gardens - ABG Kitchen Garden Initiative**

**Presentation type: Stationary presentation**

**Recommended level: R - 9**

Guess which fruit and vegetables. Learn how to sow seed and what they need in terms of light, nutrients and water. Classes will receive seeds and facts sheets.

**Station 2 Herbs - SA Herb Society**

**Presentation type: Walking Trail**

**Recommended level: R - 9**

Presentation will highlight the value this group of plants provide. Students will have the opportunity to smell and feel the plants, learn about their properties and how to grow them.

**Station 3 Nature's Medicine - ABG Staff**

**Presentation type: Stationary presentation**

**Recommended level: R - 9**

This station is based in "The Garden of Health". It highlights the importance of plants in relation to our health. 80% up to of all medicines are derived from plants or copied from plants. The presentation includes things that we use every day to manage our health, shows their connection to plants and highlight some plants in the garden with specific medicinal qualities.

**Station 4 Heart Nature I care and can do something – The Wilderness Society**

**Presentation type: Interactive Stationary presentation**

**Recommended level: 3 - 9**

There is a lot we can do to help protect our natural environment.

The presentation will explore who the Wilderness Society is and our organisational purpose – and how the students can help make a positive difference to our natural environment.

**Station 5 The Tale of Two Lunchboxes- KESAB's 'Wipe Out Waste'**

**Presentation type: Interactive Stationary presentation**

**Recommended level: year 2 -5**

The Tale of Two Lunchboxes is an interactive activity to test students' knowledge and understanding of Nude Food. Students think about their packaging choices, and how these impact on the environment.

**Station 6 Prof Flint and the world of dinosaur plants and poop - Michael Mills (Heaps Good Productions)**

**Presentation type: Performance & interactive presentation**

**Recommended level: R - 7**

The important role of plants and how it is that many have survived the world's great extinction events, while many kinds of animals have not.

**Station 7 Bush Tucker - ABG Garden Guides**

**Presentation type: Interactive Stationary presentation**

**Recommended level: R - 9**

There is a great deal of bush tucker in the garden. This presentation looks at native plants from all over Australia that are in the Adelaide Botanic Garden and highlights their use as food. In addition it looks at the "Cooba log Bark" Acacia Salicina which is used as a poison to catch fish.

**Station 8 How to plant herbs& flowers using recycled materials - Bunnings**

**Presentation type: Workshop**

**Recommended level: R - 4**

You can make a plant look good by using almost any recyclable object.

**Station 9 The Mallee - ABG Garden Guides**

**Presentation type: Short Walking Trail**

**Recommended level: R - 9**

The mallee has a great variety of life or *biodiversity*. The mallee in southern Australia was once seen as useless native scrub and rapidly cleared for agriculture. Today we know better. We now understand how these fragile belts of life are vital to the well being of the land. We have also grown to admire the unique beauty of the wild Australian bush for its own sake.

## **Station 10 Traditional Aboriginal Tools for Living – Trent Hill - Indigenous culture for Kids**

**Presentation type:** Interactive Stationary presentation

**Recommended level:** R - 9

The Kaurna people of the Adelaide Plains were seasonal movers from the coast in summer to the plains in autumn and spring and the hills in winter. The women were gatherers and collected about 80% of the food. Their tools were mainly digging sticks. The men collected 20% of the food and used boomerangs, spears, nets, fire and poisons.

## **Station 11 Attracting Butterflies to your garden- SA Butterfly society.**

**Presentation type:** Interactive Stationary presentation

**Recommended level:** R – 7

People love butterflies but sometimes forget that to have them in your garden you also need caterpillars. This is a least lover insect in the garden. Students will learn which plants can provide food for caterpillar and butterflies.

## **Station 12 The First Creek Wetland - Adelaide Botanic Garden Guides**

**Presentation type:** Walking Trail

**Recommended level:** 3 – 9

Join the guides for a short walk of the Wetland to see how it captures stores and recycles water to maintain the gardens. It also highlights the importance of wetlands.

## **Station 13 Macro-invertebrates - Natural Resource Management Education**

**Presentation type:** Interactive Stationary presentation

**Recommended level:** R – 9

Students will learn about life in a wetland and look at the weird and wonderful tiny creatures that live with the plants.

## **Station 14 Wetland Water Works - Urrbrae Environmental Students**

**Presentation type:** Interactive Workshop

**Recommended level:** 3 – 7

Wetlands have a many important roles within an urban environment including flood mitigation, cleaning stormwater, capturing stormwater runoff to use for irrigation, provide homes for many plants and animals.

## **Station 15 Biogas, Pigs and Poo - Urrbrae Environmental Student Club**

**Presentation type:** Interactive Stationary presentation

**Recommended level:** R - 9

Students from Urrbrae Agricultural High School will manage interaction with some life pigs and explain how their poo is used in a small digester to create methane gas used for fuel.

## **Station 16 Aqua-ponics - ABG Trainee Stefan**

**Presentation type:** Stationary presentation

**Recommended level:** 3 - 9

Stefan will show students the aqua-ponics unit he built as part of his yr 12 research project. He feeds the fish, then uses the water to feed his hydroponics plants which remove the fish poo nutrients from the water. The water is then recycled for the fish and on and on.

## **Station 17 Rainforest in the Conservatory ABG Staff**

**Presentation type:** Walking Trail

**Recommended level:** 3 - 9

Rainforests are amazing and important. Scientists estimate rainforests contain about 80% of the world's plant and animal diversity. Take a walk with horticultural staff and note of the great diversity of the plants that you see. This is but a tiny glimpse of the life that is fast disappearing from rainforests around the world.

## **Station 18 Water is Precious - SA Water**

**Presentation type:** Interactive Stationary presentation

**Recommended level:** R – 9

Managing our human waste is important In Australia we take it for granted that sewage does not run down the streets or into our rivers. (It would make the news if it happened.) This is not true in everywhere. Find out what happens in other places and explore what you can do to make our systems work better.

## **Station 19 Museum of Economic Botany seed collection - MEB Volunteers**

**Presentation type:** Interactive Stationary presentation

**Recommended level:** R – 9

Plant products surround us in our daily lives. They are just as important to us today in our busy high-tech lives as they were to our ancestors thousands of years ago. One of the most important ways we use plants is for food. It is estimated about 12000 flowering plants have been used by people for food, but only 150 of these have been farmed to any extent. Surprisingly, 20 species alone provide 90 % of the world's food needs. Look around the museum to see where our food comes from.

## **Station 20 Sussing out Seeds; Habitat is Home - Native Plant Society**

**Presentation type:** Interactive Stationary presentation

**Recommended level:** R – 9

Students will see examples of seeds, examine different fruits and seed capsules and discuss sizes of seeds, seed dispersal mechanisms and germination. They will look at the other life that depends upon trees.

## **Station 21 No Me No Tree – No Tree No Me – Fauna Rescue of SA**

**Presentation type:** Workshop

**Recommended level:** R – 9

From nectar rich blossoms to homes under bark and in hollows, trees and animals depend on each other for survival. Learn how this relationship creates and maintains native forests, and ensures the survival of our native species.

## **Station 22 Musical Plants – Flavio Perez ABG Trainee**

**Presentation type:** Performance and discussion

**Recommended level:** R – 9

Flavio is a Brazilian Drum and a horticultural trainee at the Gardens. He will show students the types of musical instruments that traditional groups in South America make and perform some music with them.

## **Station 23 Border Protection - Help protect Australia from Pests and Disease. – Dept Ag**

**Presentation type:** Interactive Stationary presentation

**Recommended level:** R – 9

Department of Agriculture Biosecurity Officers will demonstrate the biosecurity requirements when flying into Australia from overseas. Students will discover the things that can carry pests and diseases and how you can help protect Australia's plants, animals and environment.

## **Pre-booked sessions included**

### **Beetles in the Amazon: Year level JP**

Presented by a giant green beetle and set inside the Amazon Waterlily Pavilion (heated-bonus) where Bugsnslugs director Kristen Messenger relates the importance of beetles and insects in pollination of plants.

### **Zoo: Year level JP**

There are many simple things we can do to encourage native animals to share our backyard and school yards. Putting up nesting boxes can provide homes for native parrots, bats and possums. Planting plants and trees that naturally occur in your area like Wattle, Grevillia, Hakeas and This station involves close interaction with native mammals.

### **Frogs: Year level R - 4**

Presented in the Bicentennial Conservatory, frog expert and teacher Gary Beardsall displays frogs and how you can attract them to your garden. They are a key indicator of the health of the environment.

### **Native bees: Year level 2 to 4**

A workshop making hotels for native bees and emphasizing their importance. Students can take them home or to school.

### **Cleland Wildlife Park Reptiles: Year level 3 - 5**

Cleland Wildlife staff, assist students to get close to a reptile collection whilst highlighting the need to protect reptile habitat and what students can do to make a difference in their own back yard.

**Mr Badger: Year level 3 to 5**

Splash Theatre performance based on the story Wind in the Willows performed on a bend in the creek in the gardens. Teachers will need to do some before the event to familiarize students with the story. This is 40 minutes and involves a larger group (2 classes). The focus is on nature.

**Plant Propagation: Year level 4 - 7**

Garden staff will run a workshop on how to collect and plant a seed for germination. Students will take a seed home in a jiffy pot.

**Wicked Gardens: Year level 4 - 7**

A workshop on how to make a water wise wicking garden in a container and take it back to school.

**Saving Seeds: Year level 4 - 7**

A workshop run by Diggers Garden experts on how to extract seeds from vegie garden and save and store them for next year.

**A sustainable garden at school or at home: Year level – 5 - 7**

Adelaide's leading Green Infrastructure expert takes students through the beautiful Australian Native Garden and shows students how they can create a garden in their school or backyard that uses plants and recycled products in interesting ways, attracts native birds and butterflies, and harvests its own rainwater.

**Seed Science: Year level 5 - 7**

Join our Botanic Gardens team of scientists in a show and tell session that explains how they are unlocking the secrets of endangered plant seed germination and long life storage. Their work is critical to long term plant conservation. Students will work with microscopes.

**Animals Anonymous: Year level 5-7**

Close encounters with a number of native animals including discussions of their importance and what we can do to care for them.