

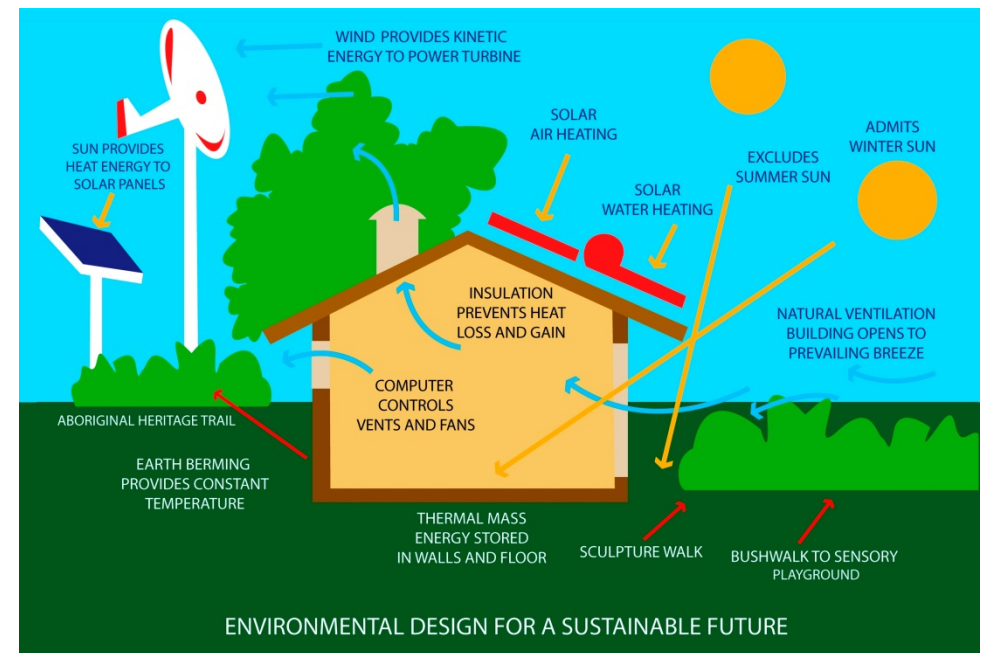
GENERAL PROGRAM OPTION	DURATION/COST	AGE LEVELS	FOCUS OPTIONS <i>to be tailored for your needs</i>
<b>SUSTAINABLE HOMES TOUR</b>	1.5 hrs / \$7 per student	Year 3 Primary- upwards.	<ul style="list-style-type: none"> <li>- Renewable Energy</li> <li>- Organic waste and sustainable gardening</li> <li>- Water Saving Features</li> </ul>
<b>SUSTAINABLE SEEDLING CUPS</b>	1hr / \$7 per student	Pre-Primary-Year 2	<ul style="list-style-type: none"> <li>- Sustainable behaviours</li> <li>- 5 R's</li> <li>- Sustainable gardening</li> </ul>

**Program Outline:**

- Students will enjoy an introductory conversation on Piney Lakes Environmental Education Centre and Reserve and our sustainable living options on site.
- Students will be led on a building tour that showcases a solar-passive design, sustainable building technologies, renewable energy systems, water-saving features and waste management.
- Younger age groups will make a sustainable seedling cup and learn about sustainable gardening practices instead of building tour (seedling cups made to take home at the end)
- Return to centre meeting room for questions and overview
- Consolidation worksheets available upon request

**Program Options:**

- This tour is delivered as a general program. The language/delivery will be altered for different age groups.
- An alternative seedling cup activity is available for younger groups.



GENERAL PROGRAM OPTION	DURATION/COST	AGE LEVELS	FOCUS OPTIONS <i>to be tailored for your needs</i>
<b>BUSH BIOLOGY</b>	1.5 - 2 hrs / \$7 per student	Year 3 primary – Tertiary <i>Tailored for your needs upon booking confirmation</i>	<ul style="list-style-type: none"> <li>- Altered Habitats, Effects of Urbanisation, Species Adaptations, Land Use issues;</li> <li>- Indigenous history of the site</li> <li>- Classification of animals and plants</li> <li>- Searching for bush evidence;</li> <li>- Restoration techniques and projects</li> </ul>
<b>BUSH BIOLOGY WITH MINIBEAST ACTIVITY</b>	1hr / \$7 per student	K-Year 2 <i>Available Term 2 and 3 only</i>	<ul style="list-style-type: none"> <li>- Classification and Identification</li> <li>- Invertebrate knowledge and life cycles</li> <li>- Searching for invertebrates in the bushland</li> </ul>

#### **Program Outline:**

- Students will enjoy an introductory power-point presentation on Piney Lakes Environmental Education Centre and Reserve, with a look at “bush evidence” (skeletons, nests, skins, etc).
- Students will be led on a bush walk through the natural wetland area, incorporating four stops to:
  - o Listen to the bush calls (birds and frogs)
  - o Look for tracks and scats
  - o Observe the natural wetland and bushland
  - o Pointing out restoration techniques (including nest boxes, dead wood and planting)
- Return to centre meeting room for questions and overview.

#### **Program Options:**

- This tour can be delivered as a general bushwalk, or a focus on key features can be conducted. The language/delivery will be altered for different age groups.
- For older students, a focus can be on restoration projects and showcasing Black Cockatoo Habitat restoration site

#### **Extra resources:**

- A consolidation worksheet can be provided upon request for students (tailored appropriately for age).



GENERAL PROGRAM OPTION	DURATION/COST	AGE LEVELS	FOCUS
<b>CLIMATEWATCHERS</b>  <i>Be a scientist for a day!</i>	2 hrs / \$7 per student	ALL ages (primary – tertiary),	<ul style="list-style-type: none"> <li>- Impacts of climate change</li> <li>- Identifying species</li> <li>- Citizen science through data collection</li> </ul>

**Program Outline:**

- Students will enjoy an introductory power-point presentation on Piney Lakes Environmental Education Centre and Reserve, with a focus on native species identification and climate change.
- Students will partake in a discussion on climate change and learn about the CLIMATEWATCH initiative and indicator species.
- Students will be led on a guided tour through Piney Lakes Reserve, stopping at multiple sites to observe the indicator species of plants (and determine flowering patterns), to look and listen for native fauna (and observe behaviours). A recording sheet is used to record observations.
- Return to centre meeting room for a demonstration of data entry, to be completed as a post-excursion activity in-school.

**Program Options:**

- This is a standard tour for all ages, which is accompanied by a pre- and post- excursion activity, involving the use of a computer bank in school (focused on data entry). There are no tailored options.

**Extra resources:**

- All students receive a pocket-guide relevant to the guided tour, for noting observations made on the walk.
- This tour requires the completion of a **pre-activity** in-school and **post-activity** in-school.
- In-school activities are forwarded to teachers upon booking confirmation.



GENERAL PROGRAM OPTION	DURATION/COST	AGE LEVELS	FOCUS
<b>Little Creatures in the Lake</b>	1.5 - 2 hrs / \$7 per student	Year 2 primary to Year 10 secondary <i>(Available Term 2 and 3 only- dependent on water-level of natural wetland).</i>	<ul style="list-style-type: none"> <li>- Classification and Identification</li> <li>- Invertebrate knowledge and life cycles</li> <li>- Food webs and food chains for wetland areas</li> <li>- Water quality and wetland health assessment</li> <li>- Altered habitats due to climate change and urbanisation</li> </ul>

#### **Program Outline:**

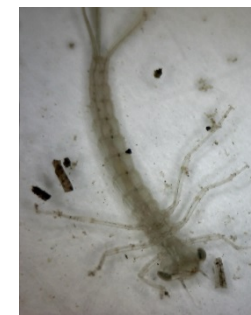
- Students will enjoy an introductory power-point presentation on Piney Lakes Environmental Education Centre and Natural Wetland, focusing on native aquatic species;
- Students will venture on a short bush-walk to observe the natural and artificial wetlands and sampling technique.
- Students will study water samples in search of aquatic macro-invertebrates (for identification and counting), with comparison between artificial and natural water samples. A basic health assessment of the wetland condition will be made based on macroinvertebrates found;
- Students will have the option to use a microscope for this activity and other common laboratory apparatus such as petri dishes and pipettes.

#### **Program Options:**

- This activity can be delivered as a general overview of our wetlands and the species that live there, or a water quality and health assessment focus. The language/delivery will be altered for different age groups.

#### **Extra resources:**

- All students will receive a recording sheet to consolidate the knowledge they have learnt regarding aquatic macro-invertebrates;





GENERAL PROGRAM OPTION	DURATION/COST	AGE LEVELS	FOCUS
SIX SEASONS TRAIL	1 - 1.5 hrs / \$7 per student	K-Year 6 (Primary)	<ul style="list-style-type: none"> <li>- Aboriginal Six Seasons</li> <li>- Plant and animal uses</li> <li>- Food sources in the different seasons</li> <li>- Sustainability of Noongar cultural practices</li> </ul>

### ***Program Outline:***

- Students will enjoy an introductory power-point presentation on Piney Lakes Environmental Education Centre, focusing on the six seasons;
- Students will be taken on a walk of the Bidi Katitjiny Aboriginal Women's trail;
- Students will learn about the six seasons, historical migration patterns, plant and animal uses and food sources in each season;
- Please note this program is NOT delivered by a Noongar person- for an authentic cultural experience, you can directly engage with external providers to conduct tours of this trail.

**Extra resources:**

- A consolidation worksheet can be provided upon request for students (tailored appropriately for age).





## **NOONGAR BOODJA WAAKINY**

*Talking about Noongar country*



Piney Lakes Reserve is a sacred site for aboriginal women who would come here to give birth and educate children about their culture and living practices, as well as discuss women's business. In recognition of the significance of the land, the BIDI KATITJINY ABORIGINAL WOMEN'S TRAIL has been created on site, for the purpose of educating the public about aboriginal use of the land, based on the Noongar six seasons.

This program takes 1 - 1.5 hours. The program will consist of a guided tour of the BIDI KATITJINY ABORIGINAL WOMEN'S TRAIL, focusing on the six seasons and native plant use, followed by a gathering at the "Fire-pit" resting place (mosaic representation of a gathering place) where students will learn traditional dance and singing (*Djidi Djidi Mara*) and have the opportunity to have their face painted with ochre, according to traditional male and female patterns.

### **Booking Conditions**

**This program is not run by the Environmental Education Officer.** It can be arranged in conjunction with other programs offered by Piney Lakes Environmental Education Centre, but must be organised directly with the external provider.

To book please contact an external provider:

**Marissa Verma (Bindi Bindi Dreaming)**

W: <https://www.bindibindidreaming.com.au/contact-us>

E: [marissa@bindibindidreaming.com.au](mailto:marissa@bindibindidreaming.com.au)

## Other Options at Piney Lakes Environmental Education Centre

### Combined Excursions (One Class)

1. Combine two programs of your choice to extend your outing.

- *Duration: 3.5-4 hours / Cost: \$10 per student*
- *Incorporates a 30-45 minute break for morning tea / lunch, in between activities.*

### Two Classes at Once

Book into a program with the Environmental Education Officer and conduct your own self-guided activity in the reserve with the second class, then swap activities!

*(Limited to one program option due to time availability)*

Self-guided Tour Options:

- **Bidi Katitjiny Aboriginal Women's Trail:** brochure and worksheet provided;
- **Bushwalk** (on sealed paths): brochure, map and recording/question/scavenger hunt sheet provided;
- **Sensory Playground:** located in the parkland area of Piney Lakes, adjacent to man-made lakes for bird-watching, grassed area for organized games and BBQ facilities. Direction provided upon arrival.

*No additional cost. Advice and resources for self-guided activity are free! Duration will be 3.5-4 hrs, depending on guided program selected (\$7.00 per student for guided program still applicable).*



## Other Options at Piney Lakes Environmental Education Centre

### Community Service Hours

#### *Volunteering in Piney Lakes Reserve*

- Half and full day activities in the reserve are available for your students service projects (concentrating on bush-land conservation and care)
- Planting projects available in June and July only, other times are likely to involve weeding and site preparation.
- Tools, equipment and initial guidance to be provided by the Environmental Education Officer. Teachers are required to supervise students throughout the day.
- *Cost: Free*

