



Nearer to Nature Schools

Programs for 2016



nearertonature.dpaw.wa.gov.au



Department of
Parks and Wildlife



PARKS
FOR
PEOPLE



Contents

Getting students Nearer to Nature

Nearer to Nature Schools provide opportunities for students of all ages to take part in hands-on, experiential learning in the natural environment. The excursions build concepts, skills, values and the ability to make environmentally responsible decisions. Also provided are excursions and incursions in sustainability from an Aboriginal cultural perspective.

All excursions are linked to the Australian Curriculum, and/or the WA Curriculum and/or WACE.

Nearer to Nature Schools links to many learning areas and the Sustainability and Aboriginal and Torres Strait Islander Histories and Cultures cross-curricular priorities.

Offering excursions at a diverse range of locations in the south-west and covering various ecosystems, *Nearer to Nature Schools* can provide your class with a unique learning experience that complement and enhance classroom teaching.

For teachers and students we offer:

- excursions or camp activities based at a variety of locations across the Perth metropolitan area and south-west
- incursions at your school
- educational resources to use in the classroom
- professional learning for educators.

Programs can be adapted for Home School groups (HS), Ed Support units (ESU) English as Additional Language and Dialect (EALD), *Bush Rangers* (BR) and *River Rangers* (RR). Refer to year level for clarification.

All programs run for a duration of four hours unless otherwise stated.

Outcomes of *Nearer to Nature Schools* programs support the Department of Parks and Wildlife's objective to ensure that the nature of Western Australia is conserved for its intrinsic values and to sustain and enrich people's lives.

More information on what we offer and available resources is located at nearertonature.dpaw.wa.gov.au.

Bookings and enquiries

Phone: 9295 6149 or 9295 6300, email n2n@dpaw.wa.gov.au or visit nearertonature.dpaw.wa.gov.au

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Legend

Venue	Abbreviation	Contact information
Perth Hills Discovery Centre	PHDC	Phone: 9295 6149 or 9295 6300
Henderson Environmental Centre	HEC	Fax: 9295 3247
Forest Heritage Centre	FHC	Email: n2n@dpaw.wa.gov.au Visit: nearertonature.dpaw.wa.gov.au
Wellington Discovery Forest	WDF	Phone: 9725 4300 or 9725 5944
Wharnclyffe Mill	WM	Fax: 9725 4351
Ludlow Tuart Forest	LTF	Email: swecoed@dpaw.wa.gov.au
Leschenault Peninsula Conservation Park	LPCP	Visit: nearertonature.dpaw.wa.gov.au
Tree Top Walk	TTW	Phone: 9840 8200 Fax: 9840 1251 Visit: nearertonature.dpaw.wa.gov.au
Dryandra Woodland Ecology Centre, Narrogin		Phone: 9881 9238 or 9881 9200, fax: 9881 1645 Email: lynette.carroll@dpaw.wa.gov.au



Bush Rangers



English as Additional Language and Dialect



Education Support Unit



Home School groups



River Rangers



Nearer to Nature
Schools

Nearer to Nature Discovery Day

A day of discovery for the whole school, multiple classes or year levels.

Groups of about 300 students can experience a range of short activities in a single day. Schools choose a range of activities that suit their learning area and a timetable for the day is prepared.

Cost varies dependent upon activities chosen. Venues: PHDC or FHC



Years PP to 6

All programs can be adapted to suit: **EALD** **ESU** **HS** **RR**

Busy in the forest (Years PP to 1)

Explore the variety of life in the forest

Through a discovery walk students identify and compare the needs and features of plants and animals. An animal encounter reinforces the day's learning. A blindfold trail guides students through a sensory encounter with nature.

A teacher's book, *Busy in the bushland*, is available on our website.

- Science (F-1), Priorities – Sust
- Venues: PHDC \$16, FHC \$16, WDF \$10.50, WM \$10.50



Moodjitch binar nyorps and yorgas (Years PP to 3)

Introducing Noongar culture through early childhood role-play

An introduction to traditional Aboriginal culture through the role of an Indigenous child. Students will be engaged in hunting and gathering using traditional singing, dancing, face painting and jewellery making.

- Science (F-3), Priorities – A&TSI, Sust
- Venues: PHDC \$16, FHC \$16, WDF \$15



Incredible invertebrates (Year 1 and Years 3 to 4)

Uncover the world of incredible invertebrates

Students explore, collect and examine invertebrates. The role of body parts will be discussed and how characteristics are determined by habitat. This day of exploring will look at different habitats, relationship with other animals and plants, and why invertebrates are important for a healthy environment.

- Science (1, 3, 4), Priorities – Sust
- Venues: PHDC \$16, HEC \$16, FHC \$16, WDF \$10.50, WM \$10.50

Catchment carers' trail (Year 4)

Discover the issues and impacts for a water catchment

On a guided walk to Mundaring Weir, students will explore how natural processes and humans have sustained or changed the environment, and the effect on water supply. The importance of vegetation to good water supply will be investigated and the Noongar perspective discussed.

- * An updated *Catchment carers' trail* book is available free for teachers undertaking this excursion.
- Science (4), Geography (4), Priorities – Sust
- Venue: PHDC \$16

Forest detectives trail (Years 4 to 5)



Where's woylie? Solving a biological 'whodunnit'

A woylie is a small hopping marsupial threatened by changing habitat and introduced predators. As forest investigators, students will use scientific keys to gather and analyse evidence to solve the mystery of the missing woylie. By learning about the food web of the forest they will discover how people are part of the delicate balance and the importance of conservation of this species.

The *Forest detectives trail* resource pack is available to download online.

- Science (4–5), Priorities – Sust
- Venues: PHDC \$16, FHC \$16



Koolangars, corroborees and kaleeps (Years 4 to 5)

Participate in sustainable hunting and fishing methods

An excursion which takes students on a Noongar cultural journey through traditional language, ceremony, hunting and fishing. Students will learn how Aboriginal people survived using natural resources sustainably while caring for the environment.

- Science (4–5), Priorities – A&TSI, Sust
- Venues: PHDC \$16, WDF \$15

Back from the brink (Years 4 to 6)



Giving our wildlife a helping hand

Western Australia's native wildlife has evolved to suit our environment but do not have the characteristics to survive against introduced species. Discover how wildlife is being monitored, the efforts to control introduced species and what is being done to create a sustainable future for our native animals. Students practice techniques used to monitor wildlife including trapping and data collection.

The *Western Shield* action pack is available to download online.

- Science (4–6), Geography (4), Priorities – Sust
- Venues: PHDC \$16, HEC \$16, FHC \$16, WM \$10.50, WDF \$10.50





Wetlands alive! (Years 4 to 6)

Examine the interactions between living things in a wetland habitat

Our wetlands are alive with a large variety of birds, bugs and plants. Students investigate how they depend on each other by surveying the plant, animal and invertebrate communities then do simple tests of water quality to relate that to the non-living environment. They also consider how those creatures are adapted to this unique environment and how people hold the key to their future.

- Science (4–6), Priorities – Sust
- Venues: Lake Joondalup or Star Swamp \$16, WDF \$10.50, WM \$10.50

Living with fire (Years 5 to 6)

Discover the impact of bushfires on environments and communities

Bushfires are a natural part of our environment. They can have a major impact on our communities and the environment but are also important in maintaining biodiversity. In this program students learn about the impacts of bushfires and how we can respond to them and mitigate their effects. Students learn when, where and why bushfires occur and the impact they have on our native plants, animals and human communities. Students are introduced to methods of bushfire prevention, mitigation and suppression and learn the importance of being prepared. The excursion includes hands-on experience with a range of firefighting tools and equipment.

- Science (3–6), English (4–6), Geography (4–6), Priorities – Sust, A&TSI
- Venues: PHDC \$16, FHC \$16, WDF \$10.50, WM \$10.50



Six-season walkabout (Years 5 to 6)

Explore the six seasons of the Noongar calendar

Take a journey through the forest as a clan of Aboriginal people on a six-season walk. Learn how Indigenous people used the six seasons as a calendar to measure where and what to hunt, and how this method ensured survival and sustainable use of their land.

- Science (6), Priorities – A&TSI, Sust
- Venues: PHDC \$16, FHC \$16, WDF \$15



Years 7 to 10

All programs can be adapted to suit:



Catchment carers' trail (Years 7 to 8)

Discover how everything is connected through water



Forests provide essential resources, including clean water. Through an activity-based walk to Mundaring Weir we examine the factors that influence the water cycle in nature, and how water flow in a catchment connects everything. We consider the impact of issues such as salinity, dieback and erosion; and how our personal choices affect the sustainability of our forest and water resources.

The *Catchment carers' trail* resource pack is available to download online.

- Science (7–8), Geography (7–8), Priorities – Sust
- Venue: PHDC \$16



Back from the brink (Years 7 and 9)



Investigate how introduced species have impacted food webs

Students investigate the impact of introduced species on our native wildlife. Through practicing techniques used by Parks and Wildlife's *Western Shield* wildlife recovery program, students learn about protecting and monitoring our wildlife.

The *Western Shield* action pack is available to download online.

- Science (7, 9) Priorities – Sust
- Venues: PHDC \$16 HEC \$16, FHC \$16, WDF \$12, WM \$12

Aboriginal culture experience (Years 7 to 10)

Discover how traditional practices ensured sustainable forest management

Students explore the traditional practices of Aboriginal people. They will make traditional tools and discover many uses of plants and animals during a forest walk. The importance of totems in conserving species and sustainable management of the forest will also be discussed.

- * This program is not available during the fire season.
- Science (8–10), Priorities – A&T&SI, Sust
- Venues: PHDC \$16, FHC \$16, WDF \$15.00

Discovering the Swan Canning Riverpark (Years 7 to 10)



Explore and investigate environmental change and management within the Swan Canning Riverpark

The Swan and Canning rivers flow through the heart of metropolitan Perth, providing locals and tourists with a beautiful place to visit and enjoy. Students visit our iconic river to investigate environmental change and management of the system. During the excursion, impacts associated with human activities are identified and ideas on how we can better protect our river system are discussed.

- Geography (7–10) Science (7–10) Priority – Sust
- Venue: Approved river site closest to your school, please discuss on booking \$16



Wetland connections (Years 7 to 10)

Explore food webs, food chains and other connections in a wetland ecosystem

Wetlands are among the most diverse ecosystems on the planet. Students collect data to create their own wetland food web by identifying the main plants and animals, and sampling the invertebrate community that lives beneath the water. Water quality tests enable students to link the non-living to the living environment. They will then consider human impacts and how they can be reduced.

- Science (7–10), Priorities – Sust
- Venues: Lake Joondalup; Star Swamp (or can be done as an incursion at a wetland close to your school) \$16, WDF \$12, WM \$12



Bushfire – a geomorphological hazard (Year 8)



Investigate the cause and effects of bushfires and how to prevent, mitigate and prepare for them

WA's south-west is prone to bushfires. Students will investigate their cause and distribution as well as how they affect lives, property and the environment. Students will also examine how the principles of prevention, mitigation and preparedness minimise the effects of bushfires. The excursion includes hands-on experience with a range of firefighting tools and equipment.

- Geography (10), Priorities – Sust
- Venues: PHDC \$16, FHC \$16, WDF \$12

Sustainable forest management (Year 10)

Managing forests for our future

Students will gain an insight into how local forests are managed sustainably for a wide range of uses. Through hands-on activities, they will investigate how past choices, such as logging and planting of pine, have influenced current forest use. Students will visit different forest types and record a range of environmental parameters to allow comparisons of soil and plant diversity.

Please note – students will be in the forest all day and walk about 2km.

- Geography Year 10 Unit 1, Priority – Sust
- Venues: PHDC \$16, WDF \$12, WM \$12



Years 11 and 12

All programs can be adapted to suit:



Aquatic ecosystems (Years 11 to 12)

Investigate connections within a wetland ecosystem

Our wetlands are under increasing pressure from the demands of population and lifestyle. Students investigate a wetland ecosystem by conducting tests on water quality (salinity, pH, nutrients, turbidity and dissolved oxygen) then sample the macroinvertebrate community and identify the ecological role of each type of organism. Students are encouraged to formulate their own research question, which their data collection will help answer.

- Geography ATAR Unit 3, Geography General Unit 1, Biology ATAR Unit 1, General Unit 4, Integrated Science ATAR Unit 2, General Unit 1
- Venues: Lake Joondalup; Star Swamp (or can be done as an incursion at a wetland close to school) \$16, WDF \$10.80, WM \$10.80



Biology (Years 11 to 12)

Understand conservation in our forests through biodiversity and population studies

Students will explore the adaptations of plants and animals in dry sclerophyllous forest and the scientific methods used to measure and monitor the recovery of threatened animal species through the *Western Shield* program. Conservation biology will be highlighted with management processes and strategies practised.

- Biology ATAR Unit 1, Biology General Unit 4
- Venues: PHDC \$16, HEC \$16, FHC \$16, WDF \$12, WM \$12, TTW \$11.90

Fire biology – a force of life (Years 11 to 12)

Understand the ecological consequences of fire on the environment

Students will take a guided walk and engage in biological fieldwork to examine the impacts of fire on the ecosystem. They will gain an understanding of the role fire has played in the evolution of our forests including Aboriginal burning practices and learn about the difference in behaviour between wildfire and prescribed burning.

- Biology General Unit 4
- Venues: PHDC \$16, FHC \$16, WDF \$12, WM \$12

Back from the brink (Years 11 to 12)



Investigate scientific techniques to re-establish native animals

Parks and Wildlife's *Western Shield* wildlife recovery program has made significant advances in native animal recovery in WA. Students will learn about the control of introduced animals and efforts to re-establish native species including captive breeding and the protection and enhancement of habitat. They will investigate and compare a range of invasive and non-invasive monitoring techniques.

- Biology General Unit 4, Biology ATAR Unit 1
- Venues: PHDC \$16, HEC \$16, FHC \$16

Fire geography – a natural hazard (Years 11 to 12)

Understand the importance of fire management in the biophysical and managed environment

Students take a guided walk and engage in geographic fieldwork to examine the impacts of fire on the ecosystem, both natural and managed. Discover the difference between bushfires and prescribed burning and why prescribed burns are critical for protecting life, property and environment. Prevention, mitigation and preparedness for this natural hazard in the managed and constructed elements of our environment will be emphasised.

- Geography ATAR Unit 1, Geography General Unit 3
- Venues: PHDC \$16, FHC \$16, WDF \$12, WM \$12

Investigate tuart woodlands (Years 11 to 12)

Discover the wonders of the majestic tuarts

The tuart woodlands are one of the rarest ecosystems on Earth, occurring only on the Swan Coastal Plain, and are under threat from coastal urban development and possibly climate change. This excursion will introduce students to the incredible biodiversity of tuart woodlands and examine reasons for declines in forest health. Hands-on fieldwork includes a survey of biotic and abiotic components and a guided walk highlights the impact of urban development, disease and insect attack, introduced species and a changing climate on the tuart woodlands.

- Geography General Unit 1
- Venues: HEC \$16, LPCP \$12, LTF \$12



Biodiversity walks and activities

Investigate the underworld (Years 1 to 6)

Students participate in a hands-on search of the jarrah forest underworld investigating incredible invertebrates. They share findings about the lives of beetles, bugs, spiders, ants, scorpions, earwigs, mantises and many more creatures.

- Venues: PHDC \$6.60, HEC \$6.60, FHC \$6.60
- Duration: 1 hour

Wetland creature feature (Years 2 to 3)

You'll be amazed to see what lives in the water of our wetlands. Students investigate a bucket of swamp water to identify a host of weird and wonderful mini-beasts, many of which are the young of land animals such as dragonflies. Then on a guided walk students look at the other plants and animals that make wetlands such special places, and learn how to care for them.

- Venues: Lake Joondalup; Star Swamp (or can be done as an incursion at a wetland close to school) \$9
- Duration: 2 hours

Golden catchment walk (Years 4 to 6)



Go on a journey through the forest to explore the water cycle and how humans affect the forest. Finish your walk at Mundaring Weir in time for lunch.

This program links well with an exploration of the Number 1 Pump Station with National Trust staff. Bookings for the afternoon need to be made separately with the National Trust.

- Venue: PHDC \$8.80
- Duration: 2 hours

Monitoring marsupials (Western Shield trapping) (Years 5 to 12)



A unique opportunity for students to be part of *Western Shield* research. Students mix bait, set traps in the late afternoon and return the next morning to measure and release animals.

- Venues: PHDC/FHC (Years 11 to 12 only available with BFTB or Biology excursions) (All year round) \$12, WDF/WM (Years 5 to 12) \$10.90 (2–6 May and 29 August–2 September)

Bush tucker supper (or breakfast or lunch) (Years 5 to 11)

Enjoy a session with Aboriginal leaders, learn about traditional nutrition, and make and eat a damper and kangaroo supper while listening to Dreamtime stories. The food is a sampler amount only and not a full meal.

- Venues: PHDC \$14, FHC \$14 (includes food)
- Duration: 2 hours

Night walk (Years 3 to 12)

While exploring with spotlights, students recognise the interdependence of life as the forest comes alive after dark. This experience can be a highlight of your school camp.

- Venues: PHDC \$7.70, FHC \$7.70, WDF \$8.50, WM \$8.50, TTW \$21*
- Duration 1 or 1.5 hours

*Includes all-day entry to the Tree Top Walk.

Animal encounters (Years 1 to 12)

A chance for students to get up close to some of our unique native animals and learn about their special adaptations to WA's harsh climate. Choose from the following: marsupials, reptiles, raptors or a mix of animals.

- Venues: PHDC \$8.80, FHC \$8.80
- Duration: 1 hour

Sense-ational trail (Years 1 to 11)

Students engage sensory skills as they explore the forest using blindfolds along a 200m rope walk trail.

- Venue: PHDC \$6.60
- Duration: 1 hour

Eco walks (Years 1 to 12)

Enjoy guided ecology walks through the forest, with the theme tailored to suit your needs. The duration and cost depends on your requirements.

- Venues: PHDC \$7.70, or if booking with another program \$6.60, FHC \$5.50, TTW \$17*
- Duration: 1 hour

*Includes entry to the Tree Top Walk

Totem yarning (Years 1 to 12)

A suite of incursions has been developed to introduce students to Aboriginal culture and totems. The totem concept allows students to understand how Aboriginal people connected to the environment and lived sustainably. For older classes the topics are covered in more depth and discussed in greater detail.



Saving threatened species – part 1 (Years 4 to 6)



This incursion focuses on Parks and Wildlife's *Western Shield* wildlife recovery program. Hair tubes, Sheffield traps, measuring equipment and hands-on activities will capture the interest of the most challenging students! The content is varied according to ability of the students.

Saving threatened species – part 2 (Years 7 to 12)



This incursion focuses on Parks and Wildlife's *Western Shield* threatened species recovery program. A suite of monitoring techniques to include motion-sensor camera, tunnel camera and Thomson traps will capture the interest of students through hands-on investigations. The concept of animal ethics will be introduced along with data analysis.

Biodiversity quiz (Years 6 to 10)

Students are presented with a wide range of items from the jarrah forest ecosystem. They explore the meaning of biodiversity and identify living and non-living components of and threats to the ecosystem. They identify as many mystery objects as possible before discussing connections, adaptations and the importance of maintaining biodiversity for a healthy ecosystem.

Incursion costs

Perth metro cost: one class (up to 30) \$200 per hour, second class \$180 per hour.
South-west cost: cost on application.

The Perth Hills Discovery Centre campground

The Perth Hills Discovery Centre, located 7km south of the Mundaring township, is set in jarrah forest and is 2km from the Mundaring Weir. The facilities offer 12 shady tent sites, plus an overflow area, a camp kitchen including electric barbecues, hot showers and toilets and is suitable for people with disability.

Bookings and enquiries contact *Nearer to Nature* on 9295 2244.



Wellington Forest Cottages

Wellington Mill is a delightful venue for metropolitan and country school camps, just two hours' drive from Perth and a short distance from Wellington Dam and Bunbury. The facilities include: eight cottages (which each accommodate eight people), hall for hire, public telephone, barbecues, laundry and playgrounds.

Bookings/enquiries: Wendy and Ben Perdon

Phone: 9728 3043

Email: perdon@westnet.com.au

Website: www.wfcc.com.au

Wharnclyffe Mill Bush Retreat

This camp is a fantastic venue for metropolitan and country school camps; especially for Geography and Biology students and outdoor education activities.

The facilities include a bunkhouse, four self-contained cottages and camping site accommodation available, large undercover area, kitchen, barbecues, universal access ablution block (showers and toilets) and a large grassed area adjacent to the karri forest.

Capacity: bunkhouse (42 beds), camping (50 people).

Bookings/enquiries:

Phone: 9758 8227

Fax: 9731 6366

Email: stay@wharnclyffemill.com.au

Jarraah Forest Lodge, Dwellingup

Situated close to the Dwellingup town centre, this bunkhouse style accommodation is ideal for schools wanting to experience an overnight or longer stay in Dwellingup. The facilities include twin-share rooms, a family room, with shared kitchen, dining and bathroom facilities, ideal for school groups. Capacity of 16 twin-share rooms (32 beds) plus family room (sleeps four).

Bookings/enquiries: phone: 9538 1395 during office hours or 0428 148 108 after hours

Email: admin@forestheritagecentre.com.au

Website: www.forestheritagecentre.com.au/bookings

Congelin campground and Lions Dryandra Woodland Village

Accommodation at the Lions Dryandra Woodland Village is a great option for schools if doing overnight or extended field-study sessions, and catering arrangements can be made through several Narrogin business outlets.

Bookings/enquiries: phone: 9881 9200

Email: lynette.carroll@dpaw.wa.gov.au

Bush Rangers (Years 7 to 12)

Bush Rangers WA is a youth-based, voluntary conservation and community development program. It supports young Western Australians to take an active role in the conservation of the natural environment and better understand the mechanisms for its management.

It offers young people opportunities to undertake personal development training while improving their conservation skills and knowledge through involvement in practical nature conservation projects. Projects undertaken can be school-based, within the local community, while others take them to some amazing locations and landscapes across the State.

The program is part of the broader *Cadets WA* program coordinated and financially supported by the Department of Local Government and Communities with Statewide coordination provided by the Department of Parks and Wildlife through the *Bush Rangers* program coordinator. It is an endorsed program of the School Curriculum and Standards Authority. Completion of Levels 1, 2 and 3 by *Bush Rangers* cadets in Years 10, 11 or 12, counts towards the meeting of requirements for the WA Certificate of Education (WACE).

Bush Rangers encourages young people to take action for positive change! For more information visit nearertonature.dpaw.wa.gov.au.

Contact the *Bush Rangers* program coordinator on 9295 2244.



River Rangers (Years 5 to 6)

River Rangers is a primary school cadet program run in partnership with the Department of Local Government and Communities. It seeks to engage and educate the next generation of children to help us protect our Riverpark. Specifically, the project seeks to reinforce the importance of protecting the Swan Canning Riverpark among primary school students and helps cadets gain a positive and practical understanding of the local environment.

The program allows students to actively investigate local issues and design, evaluate and share the results of their projects with other schools and the wider community.

River Rangers is a voluntary program that is largely conducted outside of classroom time. The program has been designed as a precursor to Parks and Wildlife's *Bush Rangers* program that currently operates in various secondary schools. The program currently engages 15 schools throughout the Swan Canning Catchment.



Professional learning opportunities

Fire,erals and forest

Fire and introduced species have a huge impact on our forest ecosystems. Take a guided walk and engage in biological fieldwork to examine how fire shapes the forest ecosystem and how through prescribed burning, managers are replicating Aboriginal burning practices to protect life and property and enhance biodiversity. WA is home to around 30 threatened species and Parks and Wildlife's *Western Shield* program is making significant advances in native animal recovery. We'll look at how efforts to control introduced predators and re-establish native species are bringing some of our iconic small mammals 'back from the brink' of extinction. Monitoring is an essential component of the program and in this workshop we'll investigate and compare invasive and non-invasive animal monitoring techniques. Finally you'll get the chance to meet some of our unique forest animals up 'close and personal' in our animal encounter.

Venue: PHDC \$free

Other professional learning opportunities are available from all centres on application.

Professional associations

Sustainable Schools Initiative

The Sustainable Schools Initiative (SSI) supports a whole-school approach to embracing the principles of sustainability.

In WA, the initiative (SSI-WA) has been developed around significant local partnerships and represents an overarching framework for 'education for sustainability' in school communities. Schools are supported to foster a culture of sustainability in their day-to-day activities, both in terms of teaching and learning (curriculum), the management of the school's resources and its activities within its local community.

The SSI-WA whole school planning framework provides schools with ideal support for Australian Curriculum implementation, specifically the cross curriculum priority of Sustainability and the General Capabilities as linked to specific learning areas.

The project website www.det.wa.edu.au/sustainableschools/ highlights and promotes case studies of schools' activity in this area, representing a 'compendium of success' of action-based learning for sustainability.

For more details regarding this initiative, please contact project manager Howard Flinders, SSI-WA on 9402 6259 or howard.flinders@education.wa.edu.au.



STAWA

The Science Teachers' Association of Western Australia (STAWA) offers leadership in science education, promoting sustainable, quality science learning and teaching.

STAWA values high professional standards and is committed to the professional learning, recognition and resourcing of teachers of science and to the credibility of the science teaching profession and STAWA.

For more information on STAWA's annual conferences for secondary and primary school teachers, professional learning days, publications and student competitions, go to www.stawa.net or follow them on Twitter @SciTeachersWA. For more information about STAWA and how they can help call the STAWA office on 9244 1987 or email admin@stawa.net.



GAWA

The Geography Association of Western Australia's (GAWA's) main objective is to encourage, in various ways, the advancement, education, promotion and practice of geography in WA. It does this by providing an organisation and forum for students, teachers and practitioners of geography to share knowledge, ideas, opinions and activities about geography and geographical education. One of the main ways GAWA

fulfils its objective is by providing and promoting professional learning opportunities for both primary and secondary teachers and students. Throughout each year GAWA conducts a number of professional learning activities where teachers' knowledge and skills relating to the Australian Curriculum: Geography can be enhanced. Additionally, GAWA publishes a wide range of student textbooks, examination packages and other resource materials as well as providing annual WACE Revision Seminars. GAWA also promotes the professional learning opportunities provided by agencies, including *Nearer to Nature Schools*.

Phone/fax: 9388 2656,

Email: gawaadmin@westnet.com.au,

Website: www.gawa.asn.au.



Duration

Excursions, unless otherwise indicated, run for four hours from 10am to 2pm.

Costs

All costs quoted include GST. As all programs and activities are curriculum-linked, the GST component can be reclaimed.

Charges for programs will be made on a per student basis dependent upon the number of students booked however we require a minimum payment for 20 students. Maximum class size is 30 students. Multiple classes can be accommodated.

Cheques are to be made payable to Department of Parks and Wildlife.

Confirmations

A confirmation letter will be forwarded to you on finalising your booking.

Cancellations

Please confirm any cancellation in writing at least one week before your visit, otherwise a cancellation fee will apply.

Overseas and interstate bookings

Prices on application.

Our centres

Perth and surrounds PHDC – The Perth Hills Discovery Centre

The Perth Hills Discovery Centre, on Allen Road (off Mundaring Weir Road), is set in Beelu National Park, located 7km south of the Mundaring.

HEC – Henderson Environmental Centre (Star Swamp), North Beach

Set in the Star Swamp Bushland Reserve, North Beach, the Henderson Environmental Centre is an excellent excursion venue for schools in the City of Stirling.

Dwellingup FHC – Forest Heritage Centre,

The Forest Heritage Centre is located on Acacia Road in Dwellingup and is the most recent venue for a selection of environmental and cultural excursions. The centre includes walk trails, a tree top viewing platform and the School of Fine Wood.

South-west WDF – Wellington Discovery Forest, Bunbury

The Wellington Discovery Centre, located in the forest, is 35km from Bunbury, close to Wellington Dam and about 2.5hrs drive from Perth. Programs are available for schools in the south-west and for metropolitan school groups camping or staying at the cottages at Wellington Mill.

WM – Wharnccliffe Mill (formerly Margaret River Eco Discovery Centre)

The Wharnccliffe Mill Bush Retreat, an excellent venue for school camps, is on site and set in magnificent karri and jarrah forest close to the Margaret River township.

LPCP – Leschenault Peninsula Conservation Park, Bunbury

Leschenault Peninsula Conservation Park is located about 25km north of Bunbury on the Old Coast Road. It comprises a range of ecosystems from coastal dunes to rich tuart forest and includes the historic Belvidere settlement.

LTF – Ludlow Tuart Forest, Busselton

Ludlow Tuart Forest is located near Busselton on the Tuart Tourist Drive. A new walkway includes a bird hide facing onto the adjacent wetlands, which provides a great opportunity for wildlife viewing. The heritage-listed Wonnerrup House is across the road from the parking area.

Wheat belt DWEC – Dryandra Woodland Ecology Centre, Narrogin

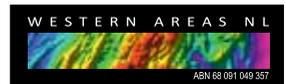
The Dryandra Woodland Ecology Centre is situated within Dryandra Woodland close from Narrogin. Excursions may include a visit to the nearby Barna Mia Nocturnal Animal Sanctuary. The adjacent Lions Dryandra Village provides good accommodation for school camps.

Great Southern TTW – Tree Top Walk, Walpole

The Valley of the Giants Tree Top Walk is located between Denmark and Walpole in the heart of the Walpole Wilderness. The Walpole Wilderness features a vast, natural and wild landscape encompassing tranquil forests, imposing granite peaks, peaceful rivers, wetlands and breathtaking beaches. It is also home to old majestic tingle forests, which occur nowhere else in the world! The Valley of the Giants Tree Top Walk features a stunning walkway positioned 40m above the ground amid the spectacular heights of the tingle forest canopy.



Nearer to Nature Schools



Department of
Parks and Wildlife

