



FIRST EDITION

THE WESTERN CAPE ENVIRONMENTAL EDUCATION FRIENDS HANDBOOK

A complete guide to education for sustainable development practitioners in the Western Cape





WHAT IS THE WESTERN CAPE ENVIRONMENTAL EDUCATION FRIENDS (WCEEFF)?

The Western Cape has often been described as a ‘world in one province’. With its coastline that stretches more than 1000kms, pristine beaches, majestic mountain ranges, an abundance of wildlife sanctuaries, nature reserves and national parks, as well as its wealth of fauna and flora, this richly diverse natural paradise should be enjoyed – but at the same time protected.

It is here that environmental education and awareness has an important role to play. Whether it be the education of children to appreciate, enjoy and conserve all that the province has to offer, or providing the right sort of guidance to older children who are considering an environmental career.

Adults too, who wish to learn more about the environment and what we should be doing to preserve our natural heritage, will benefit from knowing who to contact.

The Western Cape Environmental Education Friends (WCEEFF) is a platform for environmental education practitioners in the Western Cape who share the vision of providing education and resources on a wide range of subjects relating to nature conservation, the protection of the environment and sustainable development practices. It is also responsible for the overall co-ordination and optimisation of the environmental education activities in the Western Cape.

The platform exists to give guidance and strategic direction to the seamless implementation of the environmental education (EE) programmes in the Western Cape, through a collaborative approach and strengthening of the relevant networks in the region.

In a world where our children spend a great deal of time interacting with digital devices, we need to take every opportunity possible to expose them to nature’s bounty so that we raise a generation of young people who are sensitised to the importance of taking care of mother earth, there is after all no Planet B.

PURPOSE OF THE FORUM

-  Encourage co-operative governance by improving the quality and quantity of environmental education activities delivered to communities, schools and other public entities
-  Strengthen partnerships and collaboration amongst stakeholders
-  Establish a common goal for Education for Sustainable Development (ESD) practitioners
-  Facilitate dialogue, partnership and collaboration between representatives of partner organisations
-  Share ESD lessons learned and best practices, as well as provide peer-to-peer learning opportunities.
-  Highlight the role ESD plays in SDGs as part of our regional contribution to the National and Global ESD community.
-  Provide a reporting platform on implementation of ESD for 2030 at a regional level.

This booklet has been compiled as a handy guide on the organisations affiliated to the Western Cape EE Friends group, what they are able to offer and details on how to contact each partner in the network.

“If we want children to flourish, to become truly empowered, then let us allow them to love the earth before we ask them to save it. Perhaps this is what Thoreau had in mind when he said, “the more slowly trees grow at first, the sounder they are at the core, and I think the same is true of human beings.”

David Sobel

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MESSAGE FROM THE WCEEF CHAIRPERSON

The Western Cape Environmental Education Forum (WCEEF), also known as Western Cape EE Friends, is co-ordinated and facilitated by the Department of Environmental Affairs & Development Planning (DEA&DP)'s Directorate Sustainability, in collaboration with the City of Cape Town's (Environmental Capacity Building Unit).

The platform advocates for, and is informed by, the United Nations Global Education for Sustainable Development (ESD) 2030 Roadmap & 2030 Agenda, contextualised by the Department of Forestry and Fisheries (DFFE) National Environmental Education and Training Strategy & Action Plan 2030, South Africa and now expanded in the Southern Africa Development Community (SADC) Education for Sustainable Development (ESD) Strategy 2030.

Stakeholders of the WCEEF are designated by their respective National, Provincial Departments, Local Government, Environmental and Non-Environmental NGOs, Higher Institutions of Learning (HILs), Research Institutes, Community groups, Biodiversity & Coastal Management Boards and Entities (CapeNature, SANParks, SANBI and others, to mention but a few).

We have discovered the power and ability to make progress when we work together, align efforts and maximise impact through "cross-pollination" of efforts, especially in the Environmental Education space.

The COVID-19 pandemic ignited social expectations of environmental organisations and institutions to take greater responsibility for people and the environment. However, we need more commitment to transform lives through environmental programmes and accountability to positively impact people and the planet. Our strategic intent is to forge ESD partnerships and networks in our region to promote sustainable sharing of ESD resources, in support of the active engagement of youth, communities, schools, public in ESD practice and action for change.

Without a doubt, COVID-19 has disrupted many elements of our lives and has reminded us of the fragility of some of our most basic human-made systems. The crisis shows us how interconnected and interdependent systems are in ways we did not fully understand before.

Education, health, social inclusion, economic development and ecological sustainability are intertwined and accompanied by increasing risks that threaten the stability and resilience of the whole system. Take for instance, the economic pressures driving biodiversity loss and deteriorating ocean health that can have a cascading impact on societies and may increase the risk of future viruses due to deforestation and the increased demand for and trafficking of wildlife.

Returning to the 'old' normal is not an option if we want to collectively achieve the United Nation's Sustainable Development Goals (SDGs). We need to transform the systems we rely on which make our world increasingly fragile, through quality education. The term "build back better" has been widely used in the context of economic recovery from the COVID-19 pandemic.

To build back better means not only getting economies and livelihoods back on their feet quickly, but also safeguarding prosperity in the long run through quality education for all.

Our collective shared vision as the Western Cape EE Friends, is grounded in the transformation needed to put our society, environment and economy on a more sustainable and resilient path to achieve the Education for Sustainable Development 2030 Agenda and beyond.

Khuthala Swanepoel
DEA&DP: Sustainability & WC EE Friends Co-ordination and Facilitation

NATIONAL GOVERNMENT TIER





NATIONAL GOVERNMENT TIER: DFFE

DEPARTMENT OF FORESTRY, FISHERIES AND ENVIRONMENT

A safe, healthy and sustainably managed environmental and natural resource base provides critical eco-system services that are a foundation for economic and social development.

South Africa's rich species, ecosystems and natural heritage form the very foundation of our economy and society and provide an eco-system of services. Numerous sectors of the economy are threatened by growing human population and their increasing demands on the environment, climate change and invasive alien species amongst others.

The Department of Forestry, Fisheries and Environment (DFFE) places focus on biodiversity and conservation programmes, as well as the regulation and management of all biodiversity, heritage and conservation matters in a manner that ensures equitable and sustainable use, conservation, management and, where necessary, the restoration of this resource base as well as to mitigate threats to them.

Biodiversity richness is one of South Africa's most important natural assets.

The DFFE works to establish, manage and maintain ecologically representative national and cross-border systems of protected areas to advance the heritage of humankind as well as contribute to the three objectives of the Conservation of Biological Diversity (CBD) and Millennium Development Goals.

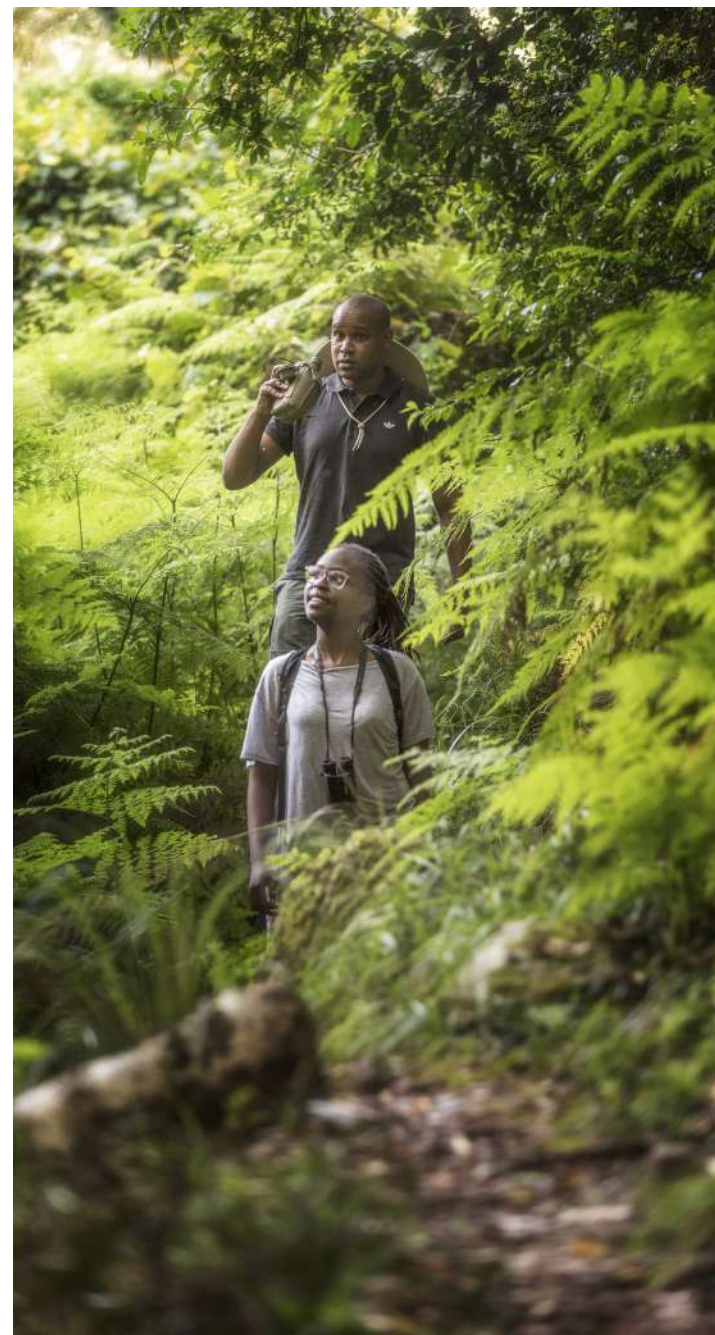
Functions of the DFFE

- Manage comprehensive, ecologically representative network of transfrontier conservation areas
- Safeguard integrity of World Heritage Sites and implementation of world Heritage conventions in South Africa
- Strengthen governance of the protected areas system in South Africa in line with national imperatives and international obligations
- Establish and develop comprehensive and ecologically representative protected areas that safeguard key ecological processes across the landscape and provide resilience against climate change
- Develop and implement policy and legislation relating to monitoring performance of protected areas
- Manage strategic administration, logistical and financial support to the Chief Directorate



environment, forestry & fisheries

Department:
Environment, Forestry and Fisheries
REPUBLIC OF SOUTH AFRICA



KEY FORESTRY INITIATIVES

Arbour Month

National Arbour month serves to promote awareness for the need to plant and maintain indigenous trees throughout South Africa, especially for the many disadvantaged communities who often live in barren and water stressed areas. It further intends to:

- Raise awareness of South Africa's urban and rural greening initiatives
- Promote better understanding of trees, particularly indigenous fruit trees
- Highlight the important role trees play in sustainable development and the livelihoods of people and their environment
- Encourage communities to participate

National Arbour City Awards Competition

The competition is held to encourage Municipalities to undertake greening initiatives to create green landscapes, as well as to:

- Promote the Ten Million Trees Programme
- Promote the development of provincial and local greening plans
- Extend greening in Municipalities to new settlement areas
- Ensure compliance with relevant greening legislations both local and national
- Raise general awareness about the importance and value of trees in residential settlements
- Provide incentives for local authorities that go an extra mile to green their areas
- Provide a platform for diagnosis of challenges facing municipalities regarding the greening function and discuss solutions.

CONTACT US



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<https://www.dffe.gov.za/>callcentre@environment.gov.za



NATIONAL GOVERNMENT TIER SANPARKS: SANPARKS



SOUTH AFRICAN NATIONAL PARKS

South African National Parks is an organisation that was formed in 1926 and is responsible for managing 19 of South Africa's National Parks located in seven of the nine provinces. SANParks is required to protect, conserve and manage South Africa's national parks. Its business operations are founded on three core pillars:

- **Conservation** of South Africa's biodiversity, landscapes and associated heritage assets through a system of national parks
- The organisation has a significant role in the promotion of **responsible** nature-based/eco-tourism targeted at both international and domestic tourism markets
- **Socio-economic transformation** through provision of support to neighbouring communities to ensure they participate and become involved in biodiversity initiatives, enabling the broader society to be connected to national parks

VISION:

A world class system of sustainable national parks reconnecting and inspiring society.

MISSION:

To develop, protect, expand, manage and promote a system of sustainable national parks that represents natural and cultural heritage assets, through innovation, excellence, responsible tourism and just socio-economic benefit for current and future generations.

ENVIRONMENTAL EDUCATION AND CAPACITY BUILDING PROGRAMMES

Formal Programmes targeting the education sector and directed at school groups visiting national parks, as well as outreach programmes directed at learners in schools adjacent to national parks. The programme enhances awareness and education among learners through the development of up-to-date materials on environmental conservation for incorporation into the school curriculum.

Non-formal Programmes that seek to build the capacity of communities to support conservation through raising awareness and sharing of information about conservation issues and promoting action taking. Through this programme, SANParks implements community-oriented initiatives targeting specific stakeholders including farmers, traditional leaders, landowners, women and youth.

Opportunities associated with conservation such as biodiversity economic opportunities, eco-tourism opportunities and youth development, among others.

Some of the Key Projects and Programmes:

- **Park based programmes** utilise their network of Environmental Education centres, offering day and overnight activities in the national parks
- **Outreach programmes** that target schools and communities, are communicated via exhibitions and career expos
- **Species of special concern** focus on endangered and threatened species in the parks and highlight issues such as poaching
- **Kids in Parks Programme** provides a unique opportunity for learners and their educators to visit a national park and learn about natural and cultural heritage. The aim of the programme is to give learners from schools bordering Table Mountain National Park an opportunity to experience the park, and to encourage them to take an interest in conservation.

ACTIVE CALENDAR DAYS

SA National Parks Week is an annual event that takes place every second week of September. During this week, South African citizens are granted free access to most of the 19 national parks for day visitors.

The week was established in a bid to cultivate a sense of pride in South Africa's natural, cultural and historical heritage, that is protected by the national parks system. Other calendar days celebrated are park specific and include those in the WESSA Environmental on pages 66 and 67 of this publication..

Summary of Environmental Education Topics and Target Age Groups

Theme	Teacher's Workshops	Grades R - 3	Grades 4 – 7	Grades 8 – 12	Adults
 Fire	On request		✓	✓	✓
 Marine	On request	✓	✓	✓	✓
 Biodiversity	On request	✓	✓	✓	✓
 Heritage	On request	✓	✓	✓	✓
 Water	On request	✓	✓	✓	✓
 Climate Change	On request	✓	✓	✓	✓
 Sustainable Living	On request				

Western Cape National Parks Contact Details:

Agulhas National Park	028 435 6078
Bontebok National Park	028 514 2735
Garden Route National Park	044 877 1197 or 044 302 5600
Karoo National Park	023 415 2828/9
Table Mountain National Park	021 422 1601
West Coast National Park	022 772 2144/5

CONTACT US



<https://www.sanparks.org/>



@South African National Parks



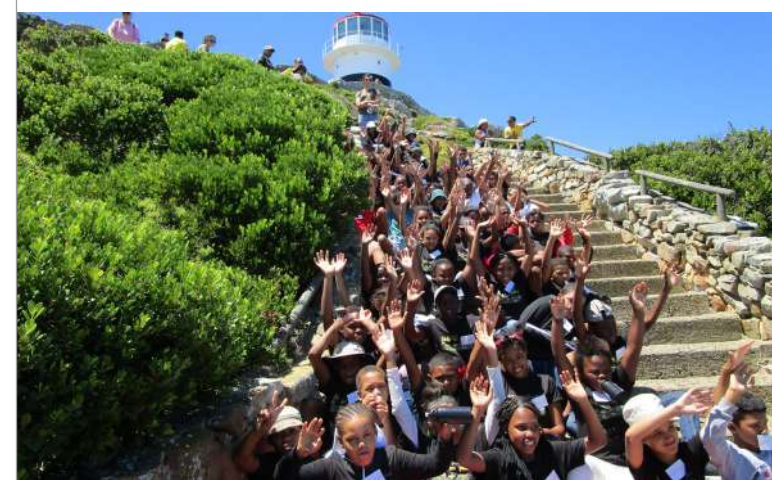
@sanparks



@SANParks



SANParks





NATIONAL GOVERNMENT TIER: SANBI



SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE

The South African National Biodiversity Institute (SANBI) contributes to South Africa’s sustainable development by facilitating access to biodiversity data, generating information and knowledge, building capacity, providing policy advice, as well as showcasing and conserving biodiversity in its national botanical and zoological gardens.

VISION:

Biodiversity richness for all South Africans.

MISSION:

To champion the exploration, conservation, sustainable use, appreciation and enjoyment of South Africa’s exceptionally rich biodiversity for all South Africans.

BIODIVERSITY EDUCATION AND PUBLIC ENGAGEMENT (BEPE)

Through Environmental Education Centres located in the National Botanical Gardens, skills development, education and awareness programmes are facilitated with schools and communities to increase knowledge about biodiversity and to promote the development of skills as well as opportunities to take small actions towards conserving biodiversity and having more sustainable lifestyles. There are BEPE Centres at the three Western Cape Gardens: Kirstenbosch, Harold Porter and Karoo-Desert National Botanical Gardens.

Through the Kids in Gardens Programme, SANBI facilitates lessons for learners and adults according to different themes linked to the curriculum. Within their awareness raising programmes, they celebrate environmental theme days, facilitate combatting biodiversity crimes events, have holiday programmes in the national botanical gardens and communicate the National Biodiversity Assessment Report findings.

SANBI’s capacity building component focuses on career events at primary school, high school and university level showcasing biodiversity careers. There is also in-school and out-of-school youth programmes to provide several skills to the youth.

The citizen science component focuses on the iNaturalist App where community members assist in identifying different plants in the regions. The Outreach Greening Programme establishes biodiversity gardens at chosen schools and communities over a 3-year period.

STUDY AND SKILLS DEVELOPMENT OPPORTUNITIES AVAILABLE

Work-integrated learning opportunities are offered to Horticulture and Nature Conservation students. **Internships** are offered to graduates, allowing them to contribute towards ongoing research projects and gain practical experience. **Postgraduate bursaries** are made available for Honours, MSc and PhD studies. The **Kirstenbosch Scholarship** supports candidates in the attainment of a B Tech/Advanced Diploma in Horticulture. The candidate spends two years at Kirstenbosch, working on specific research projects. If interested, contact the Institute of Environment and Recreation Management (Africa) e-mailto: iermservices@vdw.co.za

Summary of Environmental Education Topics and Target Age Groups

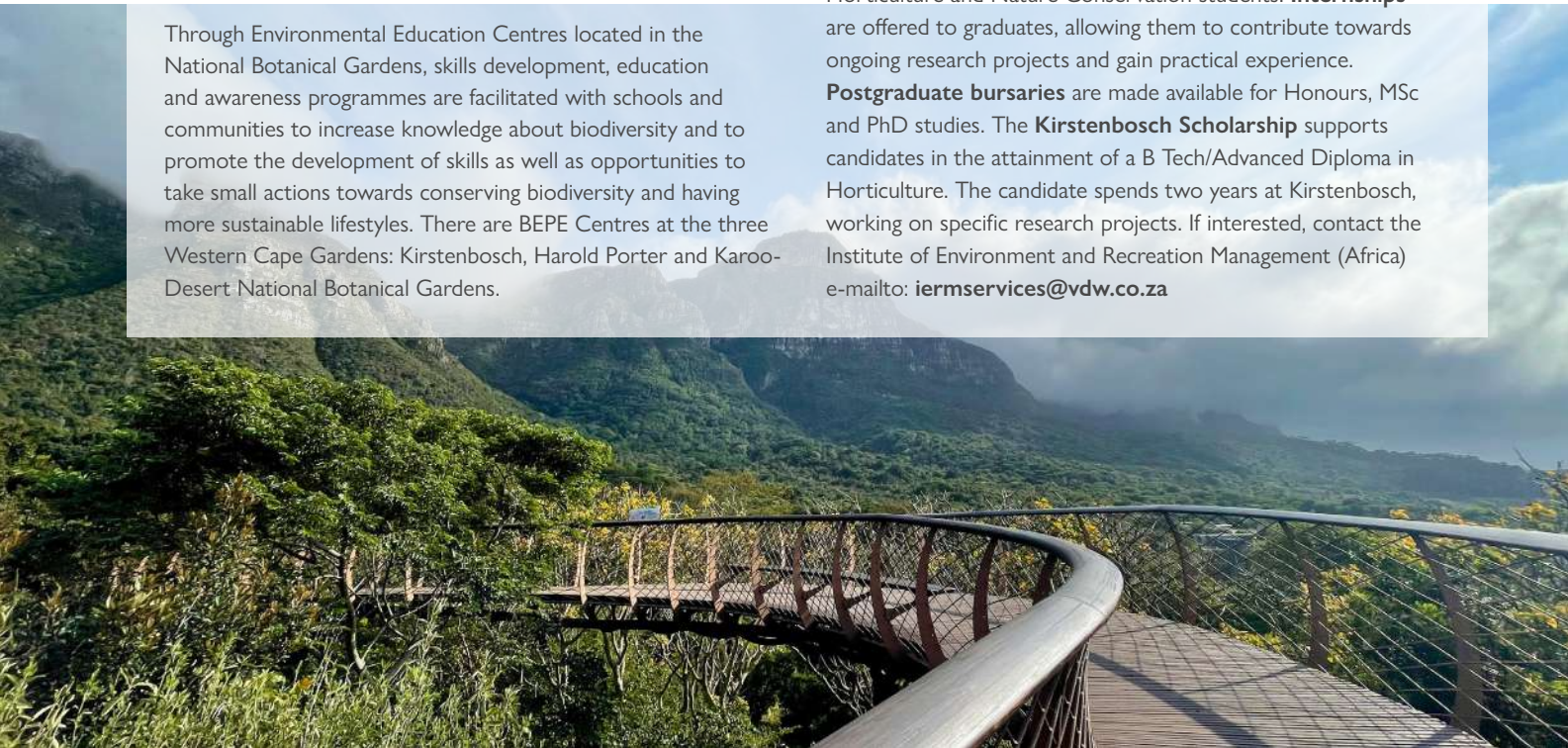
Theme	Grades R - 3	Grades 4 – 7	Grades 8 – 12	Adults
Biodiversity	✓	✓	✓	✓
Heritage		✓		
Water	✓	✓		
Waste		✓		
Climate Change		✓	✓	✓
Sustainable Living	✓	✓	✓	✓

ACTIVE CALENDAR DAYS

Water Week	March
World Wetlands Day	2 February
International Day for Biological Diversity	22 May
World Environmental Day	5 June
Plant Conservation Day	28 July
Arbour Week	September
Climate Change Week	October
Marine Week	2 nd week in October
World Fisheries Day	21 November

CONTACT US

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- South African National Biodiversity Institute
- SA Biodiversity (SANBI)
- SA National Biodiversity Institute



PROVINCIAL GOVERNMENT TIER





PROVINCIAL GOVERNMENT TIER: WESTERN CAPE GOVERNMENT



**Western Cape
Government**

WESTERN CAPE GOVERNMENT

With the remarkable landscapes and the uniquely diverse culture of the Western Cape, it is the responsibility of the Department of Environmental Affairs and Development Planning (DEA&DP) to conserve the environment for current and future generations by preventing environmental ruin. The Department is responsible for making informed decisions based on South African environmental legislation while also being aware of how other legislation impacts on these decisions.

Their mission is to promote a resilient, sustainable, quality and inclusive living environment in support of human wellbeing.

ENVIRONMENTAL EDUCATION MANDATES

Environmental Sustainability

The department works to mainstream sustainability in the Western Cape, to enable a resilient, sustainable, quality and inclusive living environment.

The Chief Directorate works towards this vision through a holistic and coordinated approach in championing innovation, sustainability, resource efficiency, environmental economy green jobs, and environmental education and coastal awareness education through policy and practice or to a particular strategic issue. The Directorate furthermore works towards aligning of sustainability objectives and outcomes throughout the Department, Western Cape Government and the Western Cape more broadly.

It also strategically guides, co-ordinates and harmonises provincial responses to climate change through conservation of biodiversity and coastal resource management. Their public entity, CapeNature, serves as the implementing agent to protect the Province's rich biodiversity and the ecosystem goods and services it provides to communities.

Environmental Quality

This mandate promotes integrated pollution, chemicals and air quality management, as well as implements integrated waste management.

Support is provided to communities, municipalities, industry and the private sector through the implementation of project-directed measures and initiatives in the Western Cape.

The Air Quality Management department provides a supportive and oversight role with respect to air quality management in the Province. The Western Cape's Air Quality Management Plan (AQMP) serves as an effective tool towards ensuring that the Western Cape reaches its goal of becoming the lowest carbon Province in South Africa and the leading green economic hub of the African continent, while growing its economy.

Policy, legislation, strategies and action plans are in place to manage pollution and chemicals to mitigate and manage water and soil pollution in the Western Cape. The team responsible for environmental governance, policy coordination and enforcement maintains an integrated provincial environmental governance framework. This team also monitors and enforces compliance with environmental legislation and provides legal support and administration.

ENVIRONMENTAL EDUCATION

Teacher Support Environmental Education e-Learning Programme

The intention of this teacher training intervention is to support Intermediate Phase Science teachers' understanding of, and capacity for teaching Intermediate Phase Science with a focus on sustainability. It provides teachers with the tools for teaching, learning and assessment approaches for specified subject knowledge, skills and values, including language across the curriculum, the integration of Information and Communications Technology and transformative environmental learning. All the Moodle Cloud short courses are UCT-approved and SACE-endorsed and supported teachers in their delivery of the SA schools' curriculum (CAPS).

Coastal Cleanup

During International Coastal Cleanup day or Coastal Cleanup month, that take place annually during September, volunteers play

a vital role in collecting trash that has already entered waterways or the ocean.

The DEA&DP engages the youth to talk about the litter problem, how it impacts precious marine life and what they can and should do to reduce the amount of litter that ends up on beaches every day. Litter kills wildlife, looks disgusting and is a hazard to our health and costs millions to clear up. Items collected include cigarette butts, food wrappers, bottle caps, straws and beverage bottles and are found in public areas, fishing activities, sewage pipes and shipping.

The Sub-Directorate responsible for Coastal Management engages various stakeholders in the planning and coordination of the Coastal Cleanup awareness raising and educational programmes. Several engagements between the district municipalities, the Working for the Coast teams, Cape Nature, SANPARKS, Estuary Advisory Forums throughout the Western Cape province and NGO's.

Marine Month

Each year during Marine Month in October volunteers play a vital role in creating awareness about the marine and coastal environment as well as the promotion of sustainable use and conservation of our marine resources.

The DEA&DP engages the youth to talk about various topics related to coastal management. These talks and interactive activities may include an introduction to a mobile aquarium, beach cleanups, puppet shows and any form of awareness activity that will keep learners informed on the importance of protecting our marine and coastal environments including estuaries.

ACTIVE CALENDAR DAYS

World Environment Day	5 June
World Wetlands Day	2 February
Arbour Week/Month	September
International Coastal Cleanup	September
National Marine Week	October



Plastics are now found inside animals (sea turtles, fish, whales, mussels) throughout the ocean food chain. Turtles mistake plastic bags for jellyfish and the bags block their stomachs, often leading to death from starvation. Seabirds mistake floating plastic litter for food. Plastic bags, wrappers and balloons are the most common items ingested by these animals. Marine animals (seals, sea turtles, fish) are found entangled in fishing lines, straws and other plastic bags.

Keeping our oceans clean and free of plastic requires that every person disposes of plastic items in a responsible manner.

CONTACT US



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Enquiries.eadp@westerncape.gov.za





PROVINCIAL GOVERNMENT TIER: CAPENATURE



WHO WE ARE

CapeNature is a government entity that promotes and ensures biodiversity conservation in the Western Cape. It manages complexes made up of 112 nature reserves and wilderness areas, including six Marine Protected Areas.

MISSION:

To conserve, protect and restore our natural environment by inspiring and influencing positive change.

KEY PROJECTS AND PROGRAMMES

- **Community-based natural resource management and local economic development:** to unlock opportunities that ensure local communities enjoy the benefits of natural resources and their sustainable utilisation and conservation
- **Youth development:** educational activities to help young people develop the knowledge, skills and insights necessary for them to appreciate and preserve the heritage that will be passed on to them
- **Environmental crime investigation:** active in preventing, investigating and monitoring criminal acts relating to the environment
- **Fire management:** taking the lead in developing effective partnerships to extend fire management throughout the province
- **Wildlife management:** proactively managing any conflicts that arise between humans and wildlife
- **Stewardship:** various initiatives to include private and communal land when establishing biodiversity corridors and to conserve vital lowlands habitat remnants
- **Ecotourism development:** action to develop nature-based recreational and tourism products and to leverage the Western Cape's natural assets in such a way that protected areas become sought-after tourist destinations, and more accessible and attractive to a greater proportion of our population

DAY PROGRAMMES FOR SCHOOLS

All CapeNature school programmes are fun, interactive and aligned to the South African national education curriculum. Learners can find out about species conservation, fire safety, climate change and water awareness – all while having loads of interactive fun!

The aim is to bring the great outdoors to your school through a 30-minute or 1-hour programme.

Alternatively, learners can visit one of CapeNature's eco-venues or nature reserves for a longer three-hour or overnight programme.



What are the Benefits of an Outdoor Classroom?



All programmes support and assist with classroom work



Free movement = spontaneity



An outdoor classroom offers an environment that enables cognitive and social development



Using imagination = stimulating creativity



The teachers' progress takes place in an environment that stimulates learning



Critical thinking = developing analytical skills



More space = less frustration and more cooperation



Outdoors = excellent sensory perception opportunities (new things to touch, smell, hear and see)



Sharing an outdoor classroom environment = building better bonds with the group



Decision making opportunities = problem solving and creative thinking stimulation (the outdoor environment varies more than an indoor one)



Group activities = problem solving



Outdoors = opportunity to analyse and interpret information



PROVINCIAL GOVERNMENT TIER: CAPENATURE

Theme	Teacher's Workshops	Grades R - 3	Grades 4 – 7	Grades 8 – 12	Adults
Fire	✓		✓		✓
Marine	✓		✓		✓
Biodiversity	✓		✓	✓	✓
Heritage					
Water conservation	✓		✓		✓
Waste reduction	✓		✓		✓
Climate Change	✓			✓	
Sustainable Living					✓



The CapeNature **CUBS CLUB** is a **FREE** online club for children between the ages of 4 and 13. Children can participate in activities, earn points and win prizes! They also receive a wonderful welcome pack on sign up and 20% discount at selected CapeNature reserves for their birthday!

There is not enough space here to provide information on the many exciting activities we offer.

Visit www.capenature.co.za/nature-kids to find out more.



CAMPAIGNS

Be part of an organised clean up event or plan your own. CapeNature will supply clean up gear and mobile bins for events!

The Plant One Million Trees Movement focuses on greening projects around the Western Cape. Citizens in the province are encouraged to contact CapeNature about arranging a greening event.

CapeNature offers programmes specially designed to connect with nature and in turn, improve wellbeing.

CONTACT US

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- @CapeNature1
- CapeNature1
- CapeNature

ACTIVE CALENDAR DAYS

Wetlands Month	February
Water Week	one week during March
CapeNature's Biodiversity Crime Month	April
Plant Appreciation Day	13 April
International Day for Biological Diversity	22 May
World Oceans Day	8 June
National Marine Month	October
International Mountain Day	11 December





PROVINCIAL GOVERNMENT TIER: CAPENATURE



CapeNature has four Eco-Venues that are geared toward accommodating small to medium groups of people for a variety of activities including meetings, environmental education, specialised group outings and social events.

They offer programmes that extend over three days and two nights and can include camping on a reserve or eco-venue. Learners will learn about fire safety and species conservation through races and activities, puzzles, crafts, hiking and stargazing – all while enjoying the magic that an outdoor camping experience offers!

Visitors are able to select between self-facilitated (run by the group organiser) or facilitated (run by CapeNature staff)

programmes at their Eco-Venues. Facilitated educational programmes are offered for children and adults. Curriculum aligned programmes are also available to schools and all equipment will be provided.

Facilitated programmes are subject to availability and must be arranged well in advance. The booking agent should be informed on booking if a facilitated programme is required. To receive a full list of programmes available, get in touch with their Learning & Awareness unit on email learning@capenature.co.za.

CapeNature's environmental education extends to post school education and training for young people who choose to pursue a career in conservation.



WORK INTEGRATED LEARNING INTERNSHIP PROGRAMME

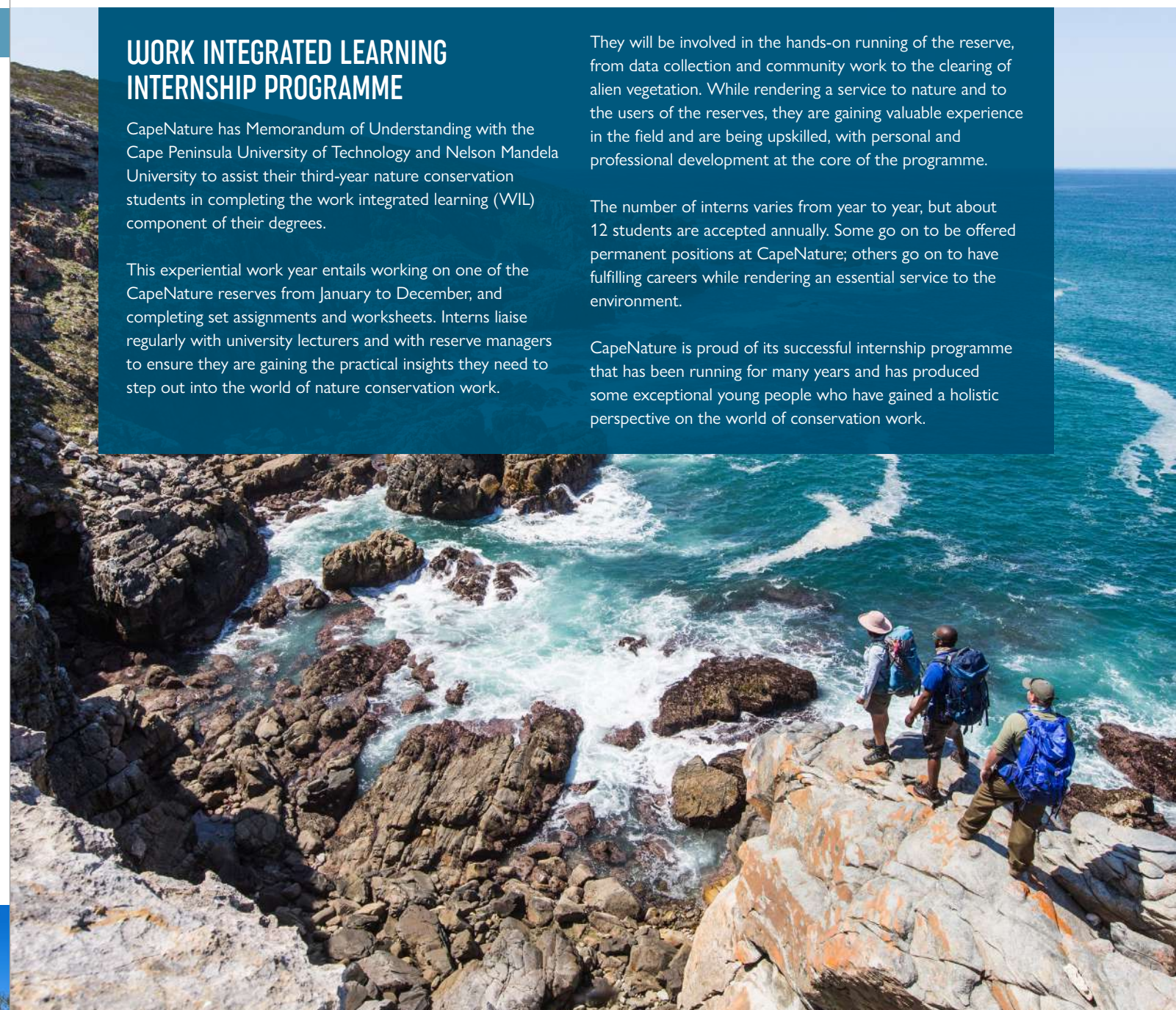
CapeNature has Memorandum of Understanding with the Cape Peninsula University of Technology and Nelson Mandela University to assist their third-year nature conservation students in completing the work integrated learning (WIL) component of their degrees.

This experiential work year entails working on one of the CapeNature reserves from January to December, and completing set assignments and worksheets. Interns liaise regularly with university lecturers and with reserve managers to ensure they are gaining the practical insights they need to step out into the world of nature conservation work.

They will be involved in the hands-on running of the reserve, from data collection and community work to the clearing of alien vegetation. While rendering a service to nature and to the users of the reserves, they are gaining valuable experience in the field and are being upskilled, with personal and professional development at the core of the programme.

The number of interns varies from year to year, but about 12 students are accepted annually. Some go on to be offered permanent positions at CapeNature; others go on to have fulfilling careers while rendering an essential service to the environment.

CapeNature is proud of its successful internship programme that has been running for many years and has produced some exceptional young people who have gained a holistic perspective on the world of conservation work.



GRADUATE INTERNSHIP PROGRAMME

It's not only nature conservation students who need an opportunity to gain work experience – there are also many unemployed graduates who are eager to get a foot in the door. Their Graduate Internship Programme helps graduates gain invaluable on-the-job experience in order to flesh out their CVs and ultimately find permanent employment.

CapeNature has chalked up a number of successes through this programme, with several enthusiastic graduate interns

going on to be permanently placed with CapeNature or taking up positions elsewhere.

They offer an opportunity for young graduates to grow and develop while working, and to hopefully find their professional niche.

For more information on these opportunities visit <https://www.capenature.co.za/internship-programmes>

LOCAL GOVERNMENT TIER





LOCAL GOVERNMENT TIER: CITY OF CAPE TOWN



CITY OF CAPE TOWN
ISIXEKO SASEKAPA
STAD KAAPSTAD

CITY OF CAPE TOWN

The City of Cape Town works across its departments and external partners to manage and protect the natural and built environment to ensure Cape Town's long-term environmental sustainability. A range of environmental and heritage education programmes are on offer that address environmental issues.

The City's programmes are varied and aimed at diverse audiences that include City staff, politicians, community members, general citizens, school learners, teachers and tertiary students.

ENVIRONMENTAL EDUCATION PROGRAMMES

These programmes primarily comprise of events during specific environmental weeks that focus on wetlands, harbour, water, biodiversity, the environment, heritage, marine areas and the coast. Participation in these programmes can take the form of visiting the Smart Living Education Centre (SLE Centre) in Green Point Park or in the form of outreach programmes.

The After Dark Programme comprises educational sleepovers in Green Point Park. The City also offers environmental education programmes for differently abled people.

SMART LIVING EDUCATION AND TRAINING

The City of Cape Town recognises the need to find smarter ways to do things in our lives, including working, eating, travelling, using energy, managing waste and water, and more. These smarter choices can have a meaningful and sustainable impact on our lives, our pocket, and the environment. By making smarter lifestyle choices, we save money and help produce a better future for all.

Every time one makes a decision to do certain things, such as switch on a light, drive a car, run a bath, buy a specific product, etc. they make a decision that has an impact on the environment. The Earth's natural resources, water, oil, fresh air, coal and seafood, will run out if humans use them faster than they can replenish themselves.

To make sure there are enough resources for all of us, including future generations, it is important to manage resources well, and use what is available efficiently, fairly and sustainably.

The City of Cape Town offers a series of Smart Living education and training programmes designed to teach the residents of Cape Town what they can do in their daily lives to use resources more effectively.

The education and training programmes include:

- Smart Driver aimed at City fleet drivers
- Smart Office that targets City staff and other organisations
- Smart Living awareness, education, outreach and audits for schools and the general public
- Smart City Kids for pre-primary school learners
- Climate Smart teacher workshops
- Smart Living audits, education and training
- Smart Cooking training and demonstrations
- Smart Living Home Audits
- Smart Living online training course (on how to audit your own home)

HERITAGE EDUCATION PROGRAMMES:

- Heritage Month education programme
- Nelson Mandela education programme
- Khoekhoen education programme
- Shell Middens education programme
- Prestwich Memorial and Slave Heritage education programme

Guided and self-guided tours that have been developed include:

- Company's Garden
- City Hall and Precinct
- Water Heritage walks
- Slave Heritage walks
- Green Point Park
- Old Granary

CONTACT US



Environmental Education Programmes
Environmental.Education@capetown.gov.za



Smart Living Education Programmes
SmartLiving@capetown.gov.za



Heritage Education Programmes
Heritage.Education@capetown.gov.za



<https://www.capetown.gov.za/>



<https://www.facebook.com/CityofCT/>



<https://twitter.com/CityofCT>



<https://www.youtube.com/user/cctecomm>



<https://www.capetown.gov.za/linkedin>



<https://www.capetown.gov.za/subscribe>



NOTE: A wide range of resources, educational material and information is available via the City's webpages.





LOCAL GOVERNMENT TIER: CITY OF CAPE TOWN

CONTACT THE CITY'S NATURE RESERVES

False Bay Nature Reserve (FBNR)

Rondevlei Section - FBNR

Tel: 021 400 3447/ 9593

Email: Bronwen.Foster@capetown.gov.za

Cnr Perth Road and Fisherman's Walk, Grassy Park/ Zeekoevlei

Zeekoevlei and Strandfontein Sections - FBNR

Tel: 021 400 34347

E-mail: Bronwen.Foster@capetown.gov.za

Shoreline Drive, Pelican Park

Zandvlei Nature Reserve

Tel: 021 444 1488

E-mail: Zandvlei.Lookout@capetown.gov.za

Coniston Avenue, Steenberg

Edith Stephens Nature Reserve

Tel: 021 444 6480 /83 /79

E-mail: Luzann.Isaacs@capetown.gov.za / stacy-anne.michaels@capetown.gov.za

Govan Mbeki Road, Philippi (off Jakes Gerwel Drive)

Helderberg Nature Reserve

Esmay Josephs: 021 4442572

Helderberg Nature reserve: 021 444 7265

E-mail: helderbergnature.reserve@capetown.gov.za

Verster Avenue, Somerset West

Steenbras Nature Reserve

Tel: 021 444 6930

E-mail: Steenbras.NatureReserve@capetown.gov.za

Faure Marine Drive (R44), about 9 km from Gordon's Bay

Harmony Flats Nature Reserve

Tel: 021 444 6930

E-mail: HarmonyFlats.NatureReserve@capetown.gov.za

11th Avenue, Strand

Wolfgat Nature Reserve

Tel: 021 400 3855 (Weltevreden Office)

E-mail: Wolfgat.NatureReserve@capetown.gov.za/ Jerome.September@capetown.gov.za

5 Pyrenees Road, Tafelsig, Mitchell's Plain (EE Centre)

Tygerberg Nature Reserve

Tel: 021 444 8971

E-mail: Sphiwemoses.maphosa@capetown.gov.za

Main entrance: Totius Way, Welgemoed

Bothasig Fynbos Nature Reserve

Tel: 021 444 8971

E-mail: Tygerberg.NatureReserve@capetown.gov.za
Border of Visserhof, Bosmansdam & Potsdam Roads, Bothasig

Bracken Nature Reserve

Tel: 021 444 7546

E-mail: Bracken.NatureReserve@capetown.gov.za

2 Reservoir Road, Brackenfell

Durbanville Nature Reserve

Tel: 021 814 1890

E-mail: Durbanville.NatureReserve@capetown.gov.za

Racecourse Road, Durbanville

Uitkamp Wetland Nature Reserve

Tel: 021 814 1890

E-mail: Durbanville.NatureReserve@capetown.gov.za

Mosselbank Road, Durbanville

Botterblom Nature Reserve

Tel: 021 814 1890

E-mail: Durbanville.NatureReserve@capetown.gov.za

Botterblom Road, Vierlanden, Durbanville

Table Bay Nature Reserve

Tel: 021 444 0315

E-mail: TableBay.NatureReserve@capetown.gov.za

10 Sandpiper Crescent, Table View (Rietvlei Section)

Blaauwberg Nature Reserve

Tel: 021 444 0454

E-mail: Blaauwberg.NatureReserve@capetown.gov.za

Eerste Steen Resort, Otto du Plessis Drive (M14), Bloubergstrand

Witzands Aquifer Nature Reserve

Tel: 021 444 7687

E-mail: WitzandsNature.Reserve@capetown.gov.za

Cnr West Coast Rd (R27) & Dassenberg Dr (R307), near Atlantis

Kenilworth Racecourse Conservation Area

Tel: 021 700 1843

E-mail: kenilworthC1@caperacing.com

105 Rosmead Avenue, Kenilworth

Vesuvius Way Conservation Area & Zandwolf Nature Reserve

Tel: 021 400 3873

E-mail: Myrna.scholtz@capetown.gov.za

Vesuvius Avenue, San Remo, Strandfontein



DISCOVER THE CITY'S NATURE RESERVES

Cape Town is a remarkable city – an urban centre of international importance, right in the middle of one of the world's biodiversity hotspots. A visit to the City's nature reserves will take you through a diverse network of spectacular flora and fauna.

The Biodiversity Management Branch currently manages 21 nature reserves, which contribute towards conserving biodiversity heritage for our generation and those to come. The nature reserves offer various environmental education programmes for schools, adults and social groups.

By creating an outdoor classroom, participants are able to learn about nature while experiencing it at the same time.

All programmes are curriculum-aligned and incorporate literacy and numeracy aspects to ensure that educators are able to meet their daily targets. Qualified environmental education and conservation officers present programmes on various topics and may be contacted individually to discuss programmes prior to the visit. Bookings must be made directly with the individual reserves as detailed on the facing page.





LOCAL GOVERNMENT TIER: DRAKENSTEIN MUNICIPALITY



DRAKENSTEIN MUNICIPALITY

The Drakenstein Municipality's Environmental Management Section comprises of three branches that include: Natural Resource Management, Environmental Monitoring & Compliance, as well as Planning & Sustainability.

Environmental awareness and education that targets schools and the broader public is a function of the Natural Resource Management Branch.

Funding received from the German Government through a Climate Partnership with Neumarkt in Germany enabled the upgrade of the Paarl Arboretum. Improvements included, among others, the upgrade of a walkway along the Berg River and the construction of an eco-centre in the form of an indoor and outdoor classroom. The classroom serves to connect people and nature and it aims to provide a space to educate local school children on various topics related to the environment.

During school holidays children are hosted for a variety of activities such as yoga, arts and crafts using natural materials, book reading, spotter sheets, walks through the Arboretum, and lessons on an environmental topic.

On a monthly basis, outreach activities and environmental education activities at schools educate young people living within the municipal boundaries. The general public get involved in cleanup initiatives by members of local communities living in the area.

During the winter months, fire awareness sessions are arranged that take place in informal settlement areas. The aim is to teach members in the community that make use of open fires to prepare food, how to make a 'clean-fire' to minimise the risk of harmful emissions being released in their households and the atmosphere.

A partnership with Mbeko Eco Club forms part of Drakenstein Municipality's broader environmental awareness and education programme. The partnership allows for the preparation and facilitation of environmental lessons mainly centered around the Berg River and the importance thereof, a perspective on what variables have an impact on water quality, how they are measured and how human activities (like solid waste) can influence water quality. The target group for this programme is high school

CONTACT US



021 807 6418

www.drakenstein.gov.zaenvironment@drakenstein.gov.za

Berg River Boulevard Paarl



TERTIARY EDUCATION INSTITUTIONS





TERTIARY EDUCATION INSTITUTION: UNIVERSITY OF THE WESTERN CAPE

UNIVERSITY of the
WESTERN CAPE

UNIVERSITY OF THE WESTERN CAPE

The University of the Western Cape (UWC) was founded in 1960 and occupies a unique space in the South African higher education landscape. It is a dynamic institution committed to excellence in learning, teaching, research and innovation in a globally competitive environment whilst remaining true to the values and ethos that have shaped its identity as a university rooted in serving the public good.

Alert to its African and international context, it strives to be a place of quality, and a place to grow, from hope to action through knowledge. It is committed to excellence in teaching, learning and research, to nurturing the cultural diversity of South Africa, and to responding in critical and creative ways to the needs of a society in transition. UWC is attuned to South Africa's need to make the best use of its talent pool and to be globally competitive.

Various faculties offer environmental studies as part of their academic programmes.

UWC is the proud owner of the **Cape Flats Nature Reserve**. Though first created as a refuge for Strandveld and Coastal Fynbos, it now functions as a base for environmental education and research and serves as an excellent outdoor classroom for gaining an ecological understanding of the Cape's dwindling natural areas.

Cape Flats Nature Reserve is one of the most important floral conservation sites in the Cape Lowlands, since only small fragments are formally conserved. The reserve consists of three major floristic regions: Vlei, Flats and Dunes with close to 260 indigenous plants species recorded. Other than plants, species lists include, mammals, reptiles, amphibians, insects, mushrooms and an impressive bird list standing at over 120 species.

The **UWC Nature Reserve Unit** encompasses the 34-hectare private nature reserve, an indigenous nursery and an environmental education centre. The Unit provides an educational and recreational asset for staff and students as well as



surrounding communities by functioning as a base for ecological teaching, environmental education and research. Programmes are tailor-made with the focus on enjoying nature.

The role of this unit is:

- Promote an awareness of the environment as a whole
- Improve the understanding of the ecological processes and how they relate to the individual and community
- Support formal education through programmes offered
- Support and initiate research within biodiversity and conservation
- Impart skills on plant propagation and encourage the establishing of mini nature reserves
- Expose volunteers to the practical side of conservation, environmental education and indigenous plant propagation
- Promote and ultimately conserve the natural lowland systems in the Western Cape with special reference to the veld types present in the Cape Flats Nature Reserve

CONTACT US

FACULTY OF NATURAL SCIENCE –
DEPARTMENT OF BIODIVERSITY &
CONSERVATION BIOLOGY



<https://www.uwc.ac.za/study/all-areas-of-study/departments/department-of-biodiversity-and-conservation-biology/overview>



<https://www.facebook.com/uwcnaturereserveunit>



https://www.instagram.com/uwc_naturereserveunit/



<https://youtube.com/@uwcnaturereserveunit>



<https://uwcnaturereserveunit.blogspot.com/>



https://za.pinterest.com/UWC_NatureReserveUnit



FACULTY OF NATURAL SCIENCE –
DEPARTMENT OF BIODIVERSITY &
CONSERVATION BIOLOGY

<https://www.uwc.ac.za/study/all-areas-of-study/departments/department-of-biodiversity-and-conservation-biology/overview>

CAPE FLATS NATURE RESERVE

Private Nature Reserve proudly owned by UWC

Declaration: Nature Reserve 1977 / National Monument 1978

Current status: Private Nature Reserve and Provincial Heritage Site

Cape Flats Dune Strandveld
endangered
Cape Flats Sand Fynbos
critically endangered

DID YOU KNOW?

25% of UWC's main campus is a nature reserve





TERTIARY EDUCATION INSTITUTION: UNIVERSITY OF CAPE TOWN



UNIVERSITY OF CAPE TOWN

Established in 1829 as a South African College and subsequently granted full university status in 1918, the University of Cape Town (UCT) is the oldest university in the country, and also the oldest university in Sub-Saharan Africa.

UCT is a public research university and is organised in 57 departments across six faculties offering bachelor's to doctoral degrees. Home to 30 000 students, it encompasses six campuses in the Capetonian suburbs of Rondebosch, Hiddingh, Observatory, Mowbray, and the Waterfront.

A vibrant student community consisting of over 100 societies and clubs caters to diverse interests such as religion, politics, culture, community outreach and sport.

SCHOOLS DEVELOPMENT UNIT (SDU)

The SDU is a UCT-based unit and education stakeholder that has a significant role to play in supporting partners within the education sector, particularly within the under-resourced and under-served communities in which they work.

The unit has undertaken to focus plans and strategies on providing context-relevant psychosocial and educational support to assist principals and teachers in their efforts to deliver quality education.

Established in 2000, the SDU seeks to improve teaching and learning in the South African school system. As a unit in the University's School of Education it draws on academic teaching and research expertise to help tackle the systemic and structural challenges that blight the country's education landscape, and manifest in poor or inadequate teaching and learning.

Through teacher development, schools-based interventions, professional consulting services and dynamic materials, the SDU works to close the achievement gap between well-resourced and disadvantaged schools.

While based in the Cape Town Metropole, the SDU works across all eight education districts in the Western Cape as well as in the Northern Cape. Their reach extends to work across all grades and phases of formal schooling and a range of interventions which vary from working in individual schools to spanning the entire Western Cape.

By working at an individual, collective and province-wide level, the unit focuses on the promotion of quality teaching and learning across all grades and phases of formal schooling, from Grade R to Grade 12 – a critical area for South Africa's long-term wellbeing and economic development.

GUIDING PRINCIPLES

- What happens in schools can and does make a difference
- Teachers have the most significant positive impact on schooling outcomes, especially in poor communities
- Developing teacher expertise means sustainable learner development over generations
- School leadership and management is crucial to learner and school success

PROGRAMMES OFFERED

Transforming Education through Education for Sustainability

Over the past decade, the SDU has been involved in various Education for Sustainability (EfS) initiatives on a national, regional and international level. In line with the UNESCO Global Action Programme and in response to the Sustainable Development Goals, the main focus has been the integration of EfS into mainstream education.

The SDU has achieved this through the development of exciting new digital resources for schools and the concomitant teacher professional development programmes. Current interventions include Moodle-based blended learning resources for Intermediate Phase (IP) in-service and pre-service Natural Sciences teachers. These resources provide educators with the EfS tools and e-learning strategies to enhance their teaching and learning. Each interactive module has a strong focus on the development of transversal skills and transformative environmental learning. SDU is also part of a collaborative multi-disciplinary EfS teacher education programme in South Africa called the 'Fundisa for Change' programme. Fundisa for Change is a partnership-based programme founded on principles of collaboration, transformative learning and evaluative review of practice in order to build a national system of engagement to broaden and deepen capacity for environment and sustainability education in South African schools. It is viewed by the Department of Basic Education as an exemplary national professional learning community with capacity to support and influence teacher professional development that

is aligned with and supportive of the Subject Contents in the Curriculum and Assessment Policy for South Africa. Collaborating with Fundisa, the SDU offers SACE-endorsed Fundisa for Change short courses in diverse learning areas including the Social Sciences, Geography, Life Sciences and Natural Sciences.

At a regional level SDU has ties with the UNESCO Regional Office for Southern Africa (ROSA) on Sustainability starts with teachers project which has been instrumental in supporting EfS change projects in Higher Education Institutes in South Africa.

SDU actively engages with educational researchers and has presented research at EEASA (Environmental Education Association of Southern Africa). SDU also partners with ESDInnovate, an international collaboration which fosters collaboration between and among teacher educators from different countries and their students/teachers. This programme's goal is to establish an intellectual dialogue on the response of teacher education to the Sustainable Development Goals and, at the same time, sharing local and global experiences.

Natural Science, Physical Science and Life Science

Science subjects are exciting fields of enquiry especially to children and young adults. Science in the school curriculum allows learners to explore varied phenomena about our world and beyond. SDU offers workshops, university-approved short courses, school-based support and formal quality professional learning qualifications such as the Advanced Certificate in Senior Phase Teaching (ACT SP) - specialising in Natural Sciences and produces quality teaching and learning materials, including online resources for Grade 4 to Grade 12.

Early Childhood Development

The SDU works with early school years teachers and NGO partners who offer programmes in the Foundation Phase: Grade R – 3 (5 - 9 years). The SDU approach to teaching and learning in these grades is fun, engaged and creative, with a strong focus on concept and skills development across all domains of early childhood.

Mathematics

SDU work in mathematics spans Grade 4 to 12. The SDU works collaboratively with colleagues in the ECD Stream (School of Education), teachers, schools, education department officials, mathematics education academics and mathematicians, as well as education publishers and the private sector.

School Organisation & Development

The SDU works to engage, facilitate and equip school teachers, leaders, heads of departments, principals and school managers to organise, manage and lead their places of learning to deliver the highest quality education possible to the learner.

Teacher Professional Development

As part of the university's School of Education, over the years the

SDU has been responsible for convening a number of Continuing Professional Teacher Development (CPTD) qualifications. The university has a number of two-year part-time Advanced Certificate in Teaching (ACT) courses registered, in line with the new national policy on teacher education qualifications.

Short Courses

The SDU's short courses programme continues to provide teachers with an opportunity to improve their content and pedagogical knowledge via certified non-credit-bearing short courses.

Consulting Services

SDU offers expert educational services that come with significant and varied expertise across teaching, learning and school management disciplines. As part of their broader efforts to tackle school development for improving teaching and learning quality in the South African classroom, they offer a variety of services to aid the teacher, HOD, school managers, parent and governing bodies and similar stakeholders in the school community ecosystem.

CONTACT US



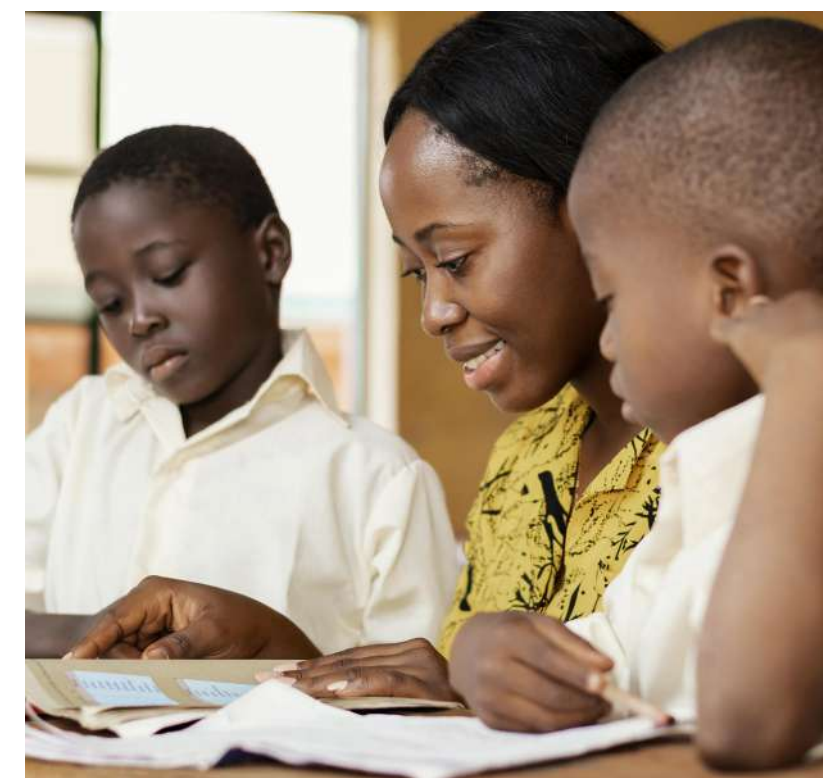
021 650 3368

<http://www.sdu.uct.ac.za/>

janine.devilliers@uct.ac.za



Schools Development Unit
4th Floor, Neville Alexander Building
University Avenue
South Entrance - Upper Campus
Rondebosch





TERTIARY EDUCATION INSTITUTION: STELLENBOSCH UNIVERSITY



STELLENBOSCH UNIVERSITY

Stellenbosch University (SU) is home to an academic community of 29 000 students and 3 000 permanent staff members on five campuses. The historical oak-lined university town situated amongst the Boland Mountains in the winelands of the Western Cape creates a unique campus atmosphere, that attracts local and foreign students alike.

On the main campus, paved walkways wind between campus buildings – some dating from previous centuries; others just a few years old. This, together with the scenic beauty of the area; state-of-the-art, environmentally friendly facilities and technology, as well as visionary thinking about the creation of a sustainable 21st-century institution, makes for the unique character of Stellenbosch University.

Stellenbosch University is a research-intensive university, that attracts outstanding students, employs talented staff, and provides a world-class environment. It is a place that is connected to the world, while enriching and transforming local, continental, and global communities.

The university's Faculty of Science and Faculty of AgriSciences offers a wide range of under- and postgraduate courses in biological sciences.

Environmental education modules form part of under- and postgraduate degrees in education, and doctoral studies, with a focus on environmental education, is offered at the Faculty of Education.

Several other academic departments and units also run environmental education initiatives at schools, with youth groups and in local communities. These include the:

- **Department of Botany and Zoology** (<https://www.sun.ac.za/english/faculty/science/botany-zoology/Pages/default.aspx>)
- **Centre of Excellence for Invasion Biology** (through the limbovane Project) www.sun.ac.za/iimbovane

- **School for Climate Studies** (<https://climate.sun.ac.za/>)
- **Department of Curriculum Studies** ([https://www.sun.ac.za/english/faculty/education/curriculum-studies/centres-institutes-units/environmental-education-programme-\(eepus\)](https://www.sun.ac.za/english/faculty/education/curriculum-studies/centres-institutes-units/environmental-education-programme-(eepus)))
- **Department of Conservation Ecology and Entomology** (<https://www.sun.ac.za/english/faculty/agri/conservation-ecology>)

ENVIRONMENTAL EDUCATION OUTREACH ACTIVITIES

Stellenbosch University also has several outreach and community interaction projects that focus on environmental education. These projects stretch across various faculties with both academics and students involved.

The information on the table on the next page outlines environmental education activities and teacher support activities within the Department of Botany and Zoology, Department of Conservation Ecology, School for Climate Studies and Faculty of Education.

For example, the Department of Botany and Zoology's 'limbovane Project' hosts holiday workshops for learners, trains educators through workshops, gives classroom lessons and field studies partner schools across the Western Cape and receives learners on campus for workshops and other activities.

The Earth Sciences Introduction-Inspiration (ESII) also visits schools and brings learners to campus to explore geology.

Visit the Stellenbosch University website for more information on these projects as well as the two listed below:

- **Ingungcu Sunbird Project**
- **Kayamandi River Restoration Project**

Summary of Environmental Education Topics and Target Age Groups

	Theme	Teacher's Workshops	Grades 4 – 7	Grades 8 – 12	Adults
	Marine	✓	✓	✓	✓
	Biodiversity	✓	✓	✓	✓
	Water	✓	✓	✓	✓
	Climate Change	✓	✓	✓	✓
	Invasive Alien Species	✓	✓	✓	✓

CONTACT US

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- info@sun.ac.za
- <http://www.sun.ac.za/english>
- [@stellenboschuniversity](https://www.facebook.com/stellenboschuniversity)
- [@stellenboschuni](https://www.instagram.com/stellenboschuni)
- [@StellenboschUni](https://twitter.com/StellenboschUni)
- Stellenbosch University
- Stellenbosch University

NON-PROFIT ORGANISATIONS AND GREEN BUSINESS





NON-PROFIT ORGANISATION: TWO OCEANS AQUARIUM & FOUNDATION



TWO OCEANS AQUARIUM & TWO OCEANS AQUARIUM FOUNDATION

The southern tip of the African continent is the meeting place of two mighty and bountiful oceans, the Indian and the Atlantic. The Two Oceans Aquarium, situated in Cape Town's V&A Waterfront, is ideally positioned to showcase the incredible diversity of marine life found in these two oceans.

The awe-inspiring exhibits aim to encourage love, respect and understanding of oceans so that people are motivated to take action for their future wellbeing and to use marine and other natural resources sustainably.

The Two Oceans Aquarium Foundation offers a wide range of sustainability and ocean-oriented programmes. Through a variety of marine science, ocean literacy, and sustainability programmes suitable for all ages, they work to nurture an ocean-loving and ocean-literate community for the future wellbeing of all.

The Two Oceans Aquarium Foundation offers the following activities:

- Lessons at the Two Oceans Aquarium
- Virtual lessons
- Guest speakers
- Marine Sciences FET Curriculum – Online 3-year course from Grade 10 to 12
- Outreach programmes
- Enrichment courses from Grade 6 to 11

For more detailed information on the Two Oceans Aquarium Foundation environmental education visit <https://aquariumfoundation.org.za/education/>

Theme		Teacher's Workshops	Grades R - 3	Grades 4 – 7	Grades 8 – 12	Adults
	Marine	✓	✓	✓	✓	✓
	Biodiversity	✓		✓	✓	✓
	Water			✓		
	Waste	✓	✓	✓	✓	
	Sustainable Living		✓	✓	✓	

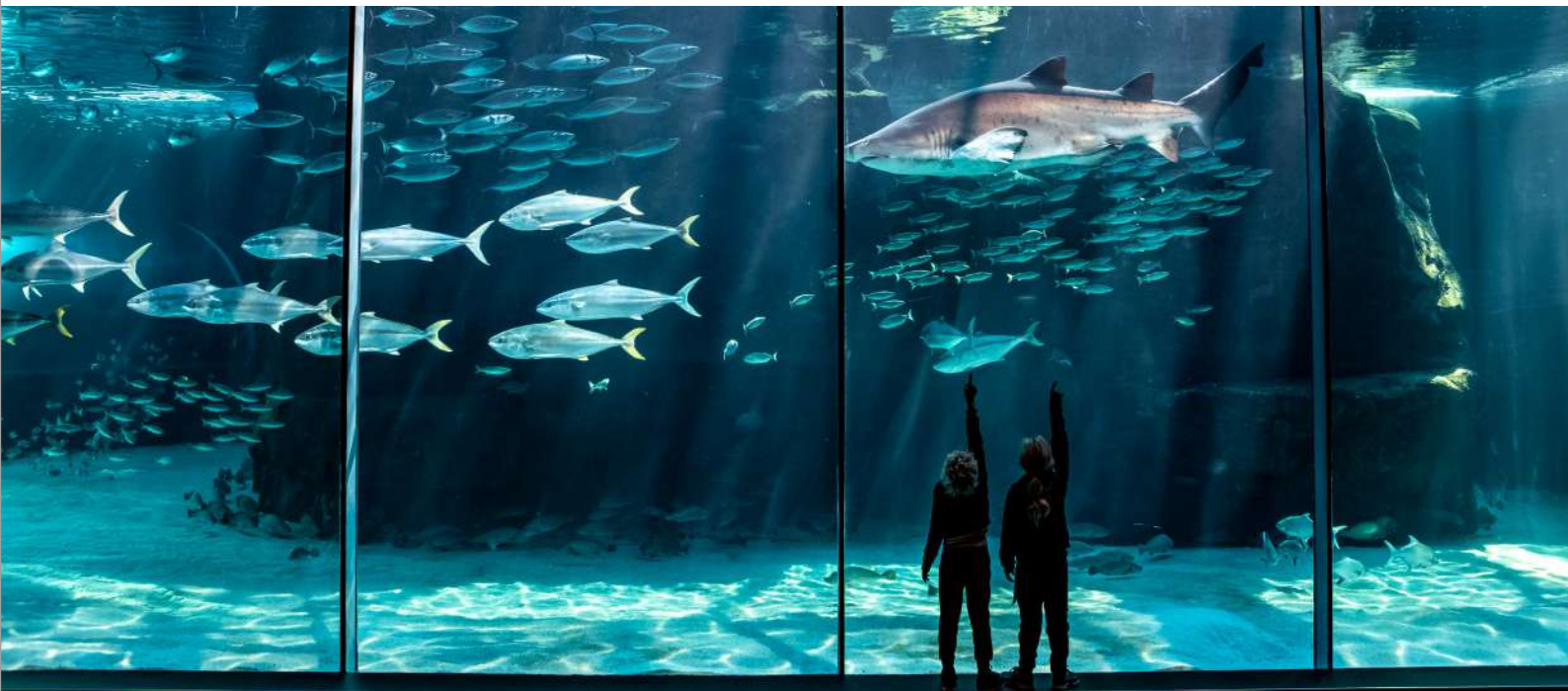


ACTIVE CALENDAR DAYS

International Coastal Cleanup Day	16 September
National Marine week / month	October
World Oceans Day	8 June
National Marine Protected Areas Day	1 August
Plastic Free July	July

CONTACT US

- +27 (0)21 418 3823/3952 (2 Oceans Aquarium)
021 814 4545 (Foundation)
- schools@aquariumfoundation.org.za
- <https://www.aquarium.co.za/>
<https://aquariumfoundation.org.za/education/>
- Dock Road, V&A Waterfront Cape Town, South Africa
- @TwoOceansAquarium and @TwoOceansAquariumEducationFoundation
- @2oceanasaquarium and @aquariumfoundation
- @2OceansAquarium
- Two Oceans Aquarium
- @2OceansAquarium





NON-PROFIT ORGANISATION: BEEP



BEYOND EXPECTATION ENVIRONMENTAL PROJECT (BEEP)

Founded in 2006, Beyond Expectation Environmental Project (BEEP) empowers young people through environmental education advocacy with a spear focus on maths, science and technology. By utilising the power of nature, BEEP embraces all forms of learning to create ambitious entrepreneurs and exceptional leaders.

Their vision is an Africa with youth who are ambitious, environmentally conscious, and willing to change the globe through ethical business practice. Youth who don't just add value but create value.

OBJECTIVES

- Increase environmental awareness and consciousness amongst black South African communities by 2% annually
- Increase South African youth participation in agri-business by 20% every five years
- Practically emancipate previously disadvantaged youth economically and empower their communities.

BEEP believes that life is a collective inter-dependency of humans, plants, animals, the landscape, and human creations. They introduce youth to nature, as in nurturing nature, youth can be developed into visionary leaders and environmental entrepreneurs.

ACTIVITIES

Table Mountain Programmes: Trips to the Table Mountain natural reserve provide youth with a natural mental reset and give them first-hand experience of the role of nature in human life and the importance of preserving it.

BEEP Environmental Workshops: These are run daily in schools to improve and increase environmental awareness, as well as to develop a love for natural science, biodiversity, and nature conservation.

Other activities include:

- Agri-business empowerment
- Leadership Coaching and mentorship
- BEEP graduate programmes

Who Can Participate?

- Youth from previously disadvantaged neighbourhoods
- Innovative youth with life changing ideas
- Environmentally conscious youth

Three Guiding Pillars

1. **The Power of Togetherness** – nature conservation is the collective responsibility of a given community
2. **The Healing Power of Nature** – the purity of nature is a remedy to the psychological toxicity of today's urban life
3. **Fighting Climate Change** – through appreciation of indigenous and exotic plants to cultivate green habits and environmental awareness

Focus Themes

- Importance of saving water
- Understanding the effect of environmental pollution, including air pollution
- Effects of climate change on food security
- Importance of preserving wetlands and their role in human lives
- Role of biodiversity and why it is important to conserve indigenous plants
- The threat of alien invasive plant species on the Cape floral kingdom

CONTACT US



060 680 2235



lindelamj@beep.org.za



www.beep.org.za



NON-PROFIT ORGANISATION: JUNGLE THEATRE COMPANY



JUNGLE THEATRE COMPANY

Jungle Theatre Company (JTC) was established as an NPO in 2004 to inspire and empower disadvantaged children and youth to make positive changes in their lives and build a peaceful and vibrant South Africa.

JTC's professional artistic team from diverse communities draws on South Africa's cultural heritage and indigenous languages to find connections to the environment and human nature, creating and performing original accessible African children's theatre shows that bring together music, dance, masks, puppets, clowning and storytelling.

These performances raise awareness, inspire learning and motivate children and youth to participate in workshops and performing arts training resulting in; developing life skills; building self-confidence and creating opportunities.

They partner with educational, social, environmental, health and arts organisations and get financial support from government, private trusts, foundations and individuals.

JTC offers the following products:

- Original African theatre productions for children and young people on social, cultural and environmental themes
- Theatre workshops for children, young people and adults
- Theatre skills training for adults working with children and young people
- Creative arts clubs with children for children

CONTACT US



072 908 5160



info@jungletheatre.co.za



www.jungletheatre.co.za





NON-PROFIT ORGANISATION: CAPE LEOPARD TRUST



CAPE LEOPARD TRUST

The Cape Leopard Trust (CLT) is an environmental NGO and non-profit organisation based in the Western Cape, South Africa. Since their establishment in 2004, they have facilitated and promoted the conservation of biological diversity, with a focus on the leopard as a flagship species.

The leopard is the last large predator and last member of the Big 5 to still roam free in the Western Cape. The species faces multiple threats, including limited and fragmented habitat, reduction in prey numbers and high levels of conflict with people.

The CLT's purpose and vision is to ensure the continued survival of leopards for the benefit of nature and society. They work to support the protection of leopard habitat and prey species, promote peaceful coexistence between leopards and people, and foster community custodianship of the Cape's unique biodiversity. To achieve this, CLT employs a three-pillar approach of research, conservation, and education. These three pillars operate in synergy within the Cape Leopard Trust and in collaboration with communities, private landowners and partner organisations.

The unique CLT environmental education and outreach programme focuses on encouraging young people to develop a stronger connection to the natural world. Their learning material is developed to align with the curriculum and to bring the complex concept of sustainable development to life through a variety of quality outdoor experiences.

They aim to inspire a next generation of biodiversity custodians and encourage children to consider careers in the green economy, as well as to educate and empower young people through connecting them with nature and instilling an attitude of reverence and respect for the natural environment.

This is achieved through:

- Environmental education
- Wilderness camps
- Presentations
- Eco-clubs
- Day trips
- Holiday programmes
- Inclusive literature programmes
- Gender specific projects
- Teacher development workshops (Accredited)
- Anti-snare projects and training
- Online learning

“We use nature as a classroom and curiosity as a tool”

Summary of Environmental Education Topics and Target Age Groups

Theme		Teacher's Workshops	Grades R - 3	Grades 4 – 7	Grades 8 – 12	Adults
	Fire	✓		✓		
	Biodiversity	✓	✓	✓	✓	✓
	Heritage	✓		✓	✓	✓
	Water	✓		✓		
	Waste		✓	✓	✓	
	Climate Change	✓		✓	✓	✓
	Sustainable Living	✓	✓	✓	✓	✓

ACTIVE CALENDAR DAYS

World Environmental Education Day	26 January
International Day of Women & Girls in Science	11 February
World Wildlife Day	3 March
International Leopard Day	3 May
Deaf Awareness Month	September
International Literacy Day	8 September
Blind Awareness Month	October
Wildlife Conservation Day	4 December
World Mountain Day	11 December



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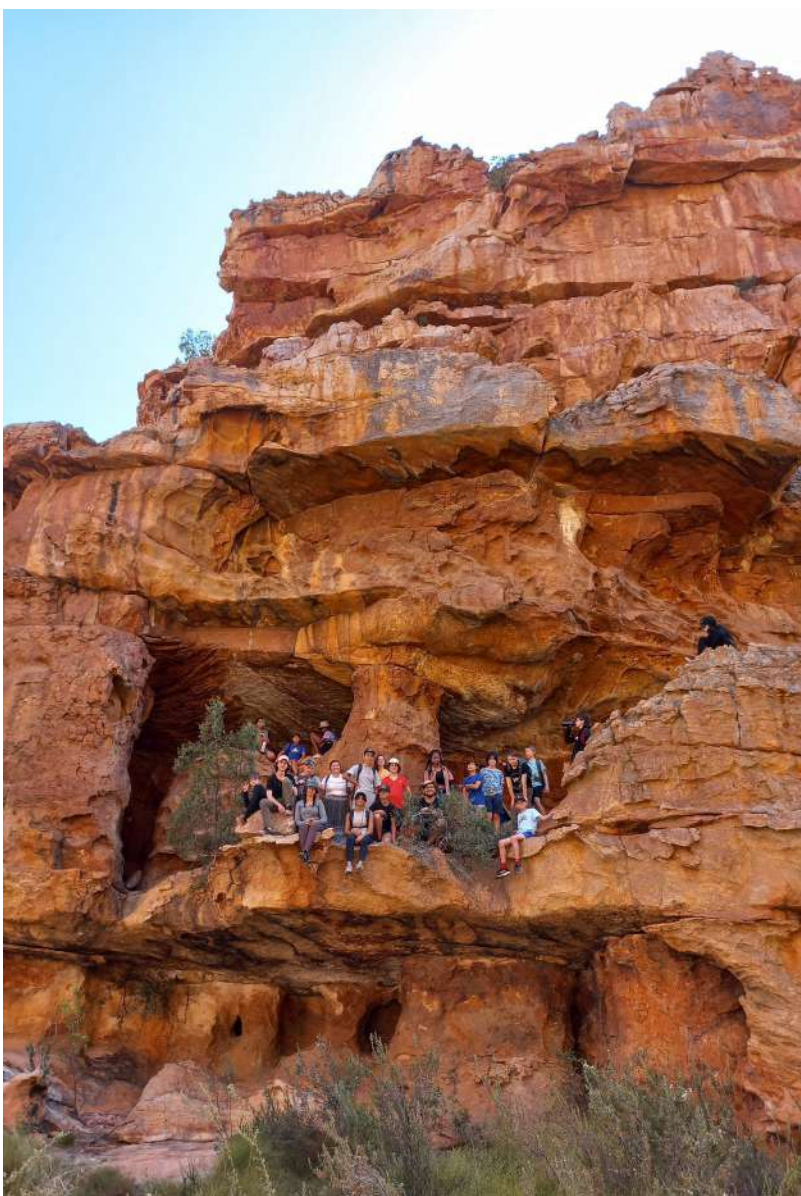
**@capeleopardtrust**

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**@CLTEE**

**@Cape Leopard Trust**





NON-PROFIT ORGANISATION: CENTRE FOR CONSERVATION EDUCATION



CENTRE FOR CONSERVATION EDUCATION

A healthy environment for all is one of the principles of the constitution of South Africa. Environment, managing resources, sustainability, respecting our natural and cultural heritage, and issues such as biodiversity and climate change are part of the many subjects covered at the Centre for Conservation Education.

The Centre has been operating as a unique school since 1989 and is in the service of the Western Cape Education Department (WCED), providing a variety of environmental education lessons and programmes and provides enrichment experiences that are

curriculum-based, relevant, learner-centred and fun. It seeks to empower young individuals to be proactive in saving the natural and social environment.

The Centre for Conservation Education houses the Education Museum situated in Wynberg, Cape Town which was declared a National Monument in 1994 (now Provincial Heritage Site) and is the only Education Museum in Africa. Schools, organisations and members of the community are encouraged to visit the rich cultural heritage depicted in the Education Museum.

Summary of Environmental Education Topics and Target Age Groups

Theme	Teacher's Workshops	Grades 4 – 7	Grades 8 – 12
 Marine	✓	✓	✓
 Biodiversity		✓	✓
 Heritage	✓	✓	✓
 Water		✓	✓
 Climate Change		✓	✓
 History		✓	✓

LESSONS OFFERED TO SCHOOL GROUPS

- Environmental Issues
- The Weather Station
- Water Awareness
- Climate Change
- Field Studies
- Biodiversity in The Table Mountain Biosphere
- Cellar Tour and Viticulture
- Rocky Seashore Study
- The Liesbeek River Study
- The Trees of the Arderne Gardens
- History/ Museum
- Archaeology
- Children's Games
- Groot Constantia as a Heritage Site
- Slavery at Groot Constantia
- Make a Museum Display
- When Great-Granny/ Grandpa was at School

ACTIVE CALENDAR DAYS

World Wetlands Day	2 February
National Water Week	March
International Museum Week	May
National Arbour Week	September
International Coastal Cleanup	3 rd Saturday in September
Heritage Week	September
National Marine Week	2 nd Week October

PROJECTS

LIMPET (Long-term Intertidal Monitoring through Participation, Evaluation & Training) Project

The LIMPET Project gives high school learners an opportunity to participate in active Marine Citizen Science, that contributes towards research and conservation. The project is proudly funded by The Table Mountain Fund.

Blue Plaque Schools Project

The Blue Plaque Schools Project was initiated in collaboration with the Simon van der Stel Foundation (currently known as The Cape Town Heritage Foundation) in 2015. Through being awarded a blue plaque, a school receives international recognition for the contribution it has made to the education of its community and education in general. This project is open to all schools in the Western Cape.

Arbour Month Tree Distribution Project

This project is in partnership with the Department of Forestry, Fisteries and the Environment (DFFE). Tree Distribution takes place annually during Arbour Month in September. The project compliments our Arbour Month lesson programme.

Venues Where Teaching Takes Place

- Centre for Conservation Education, Wynberg
- Groot Constantia, Constantia
- Dalebrook Rocky Shores, Kalk Bay
- Liesbeek River, Bishopscourt
- Table Mountain Silvermine Nature Reserve, Silvermine
- Arderne Gardens, Claremont

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NON-PROFIT ORGANISATION: MBEKO ECO CLUB



MBEKO ECO CLUB

Meko Eco Club seeks to improve and protect the water quality of the Berg River waterways and watersheds within the Berg River catchment in Mbekweni township and Drakenstein Municipality.

The organisation facilitates environmental education and awareness with youth and women through eco-tours, outdoor education and workshops to learn about water quality, climate change, biodiversity conservation and conservation agriculture.

AIMS

- Be a community voice in nature conservation in the sustainable use and benefits sharing in biodiversity restoration.
- Facilitate eco-tourism for the community and create awareness and understanding on how nature contributes to our health and wellbeing
- Support local communities' inclusive participation in ecosystem services to benefit food security, human health, clean air, and water for sustainable development
- Bring into line their activities with the local government integrated development plans (Drakenstein Municipality) in accordance with national priorities

Environmental Education Programmes

- Berg River Water Stewards: water quality improvement and river health monitoring, water efficiency and water value chains
- Climate change adaptation: positive youth development, leadership, responsibility and building connections and opportunities in entrepreneurship to transition to a green economy
- Biodiversity conservation: Paarl Birds Sanctuary on the Berg River and a Speekboom nursery for carbon sequestration
- Soil Care and food security: Carbon sequestration and planting of Speekboom trees
- Innovation Hub: localisation of sustainable development with ESG, reading room, digital literacy, green economy Career Pathways and STEM careers
- Sports & Nature: health and wellbeing through hiking, tennis, cycling and swimming

COMMUNITY BASED ENVIRONMENTAL INITIATIVES

The Adopt-A-River initiative seeks to mobilise and empower youth and communities to monitor the restoration of rivers, streams and watercourses around them and to keep them healthy and free-flowing at all times.

They champion the facilitation of environmental education and awareness by aligning activities and actions with selected United Nations Sustainable Development Goals that include Goal 4 - inclusive and equitable quality education; Goal 6 - clean water and sanitation, Goal 13 - Climate Action and Goal 17 - partnerships for goals.

Through public-private partnerships, Mbeko Eco Club encourages an environmental leadership and governance approach to achieve scalable localised impact in communities. They work to protect and conserve water in the Berg River catchment area and promote a net zero transition to mitigate climate change and adaptation through restoration of biodiversity loss and nature-based solutions.



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NON-PROFIT ORGANISATION: THE NATURE SERIES



THE NATURE SERIES

Creatively educating children about nature!

The Nature Series creates educational products that support children in grades 4 – 7 to gain an awareness of the natural kingdom so that they may choose to conserve, respect, and be mindful of it with every decision they make.

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"Nature is a tool to get children to experience not just the wider world, but themselves"



NON-PROFIT ORGANISATION: NATURE CONNECT



NATURE CONNECT

Nature Connect's mission is to support South Africa in achieving its sustainability goals by building an environmentally-empowered citizenry. Through Nature Connect's Crèche-to-Career Model, a variety of programmes have been initiated to serve this mission and to build resilience within our communities and natural areas. The Crèche-to-Career Model addresses both the social and environmental challenges and is built across three phases: Education, Training and Employment.

AREAS OF FOCUS

Nature Connect's "Sustainable Schools Programme", the first phase of the Crèche-to-Career Model, endeavours to empower individuals and communities to become active, responsible citizens for a transformed and sustained society. To achieve this, multi-faceted and sustained interactions are employed, making use of key strategies in Nature Connect's approach, such as experiential learning, leadership and values-based education, adaptive management and community problem-solving.

Nature Connect's "Green Skills Development Programme", is the second phase of the model that aims to provide career pathways for youth to gain access into the Green Economy through various opportunities to gain a qualification, workplace experience, skills development or a combination of the three. Through their funding efforts, Nature Connect has issued bursaries to tertiary students, Work Integrated Learning (WIL) placements and internship to tertiary education graduates. For youth unable to pursue tertiary education, Nature Connect offers various accredited skills development programmes and learnership programmes. Nature Connect is an accredited training provider with various SETA's.

The third and final phase in Nature Connect's Crèche-to-Career Model is the Nature Care Fund that facilitates the management of conservation projects and the protection of endangered species in Cape Town. Currently, the Nature Care Fund supports and facilitates conservation efforts for 10 conservation areas and projects, amounting to over 420ha of wetlands, endangered Cape Flats Sand Fynbos and Cape Dune Strandveld vegetation with over 70 endangered flora and fauna species in urban conservation areas. These conservation projects and sites are places of

opportunity and training for many individuals in the Greens Skills Development Programme and a wonderful outdoor classroom for their Sustainable Schools Programme.

VISION

Nature Connect's vision is to be an organisation with diverse financing mechanisms that enable national roll-out of curriculum-aligned education for sustainable development programmes, and targeted training interventions to support the skills underpinning a sustainable future for all life. Thereby growing a citizenry connected to nature and empowered to steward nature well.

OBJECTIVES

- Advancement and delivery of Environmental Education
- Training and development of youth to enter the Green Economy
- Participation in activities that support environmental stewardship and the development of the Green Economy
- Receiving, managing and disbursement of funds for conservation projects

PROGRAMMES AND ACTIVITIES

Sustainable Schools Programme

- In-School programmes
- Excursions and Action Days
- Overnight Camps
- Conservation Leadership Project
- Whole-School development
- Teacher Professional Development and support
- Sustainable School Hub

Green Skills Development Programme

- Accredited Training Provider with various SETA's
- Learnership Project
- Work Integrated Learning Project

- Internship Project
- Skills Development Project

Nature Care Fund

The Nature Care Fund portfolio has three main focus areas:

- Site Management projects
- Species Conservation projects
- Biodiversity Offsetting projects



"The future will belong to the nature smart, those individuals, families, businesses and political leaders who develop a deeper understanding of the transformative power of the natural world and who balance the virtual with the real. The more high-tech we become, the more nature we need."

Richard Louv



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GREEN SKILLS PROGRAMME



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NON-PROFIT ORGANISATION: SAVE OUR SEAS SHARK EDUCATION CENTRE



SAVE OUR SEAS FOUNDATION: SHARK EDUCATION CENTRE

Situated at the edge of False Bay in Cape Town, South Africa, the Save Our Seas Foundation (SOSF) Shark Education Centre overlooks the ocean and is right on the doorstep of the incredible Dalebrook Marine Protected Area. This unique location enables them to immerse children in experientially focused educational activities.

The small team of environmental educators are passionate about sharing their love for sharks and the ocean in general with learners and the public. The Shark Education Centre is funded by the Save our Seas Foundation.

The SOSF Shark Education Centre shines a spotlight on sharks from their diversity and anatomy to their habitats and the special role they play in the ocean. There is also a strong emphasis on marine conservation and the unique rocky shore and kelp ecosystems found in False Bay.

ENVIRONMENTAL EDUCATION ACTIVITIES

- School group visits to the SOSF Shark Education Centre for Grades R to 12
- Outreach visits to schools if transport or scheduling is a challenge
- After-school programmes
- High school job shadow programmes
- Holiday clubs

Visiting school groups receive a structured programme of educational activities, including one or two lessons in the classroom and a chance to investigate the SOSF Shark Education Centre's facilities and interact with the exhibits. Programmes might include a visit to the Dalebrook rocky shore if the weather and tides allow.

They also have several educational games, activities and apps that help reinforce the lessons learnt. Individual lessons can include, but are not limited to:

- Shark biology, diversity and conservation

- Life on the rocky shores
- Ocean pollution
- Marine ecosystems
- Marine conservation
- Marine careers

The SOSF Shark Education Centre offers two longer-term programmes as extra-curricular activities for under-resourced schools. The Sea School is for Primary School learners and is a craft-based programme. Marine Explorers is offered to High School learners and introduces participants to the wonders of the sea through snorkelling in the sheltered waters around the Cape Peninsula. Both programmes aim to foster a deep love and respect for the marine environment and to inspire future ocean guardians. These ten-week programmes are available to schools by application only.

The SOSF Shark Education Centre is home to a collection of state-of-the-art exhibits that aim to provide an engaging, multi-sensory experience for visitors. Guided tours last approximately one hour.

The SOSF Shark Education Centre organises regular community-led events as part of their Ocean Ambassador programme. The programme is limited to under-resourced communities and includes events such as beach cleanups.

WHERE THE LEARNING TAKES PLACE

The **Ship Classroom** is a wonderful space for kids to begin their adventure and get into the ocean spirit. The classroom has a large smart screen and its own entrance and is the base for school classes during their visit.

The **Shore Classroom** is designed to inspire. It can be used as a classroom to teach using the big screen and projector or for group brainstorming sessions. Audiovisual domes are suspended from the ceiling for a private film screening of various shark- and marine-related clips. A large perspex wall panel facilitates the

discussion of ocean conservation solutions – with future change-makers leading the way. This classroom is also home to a marine and shark reference library, with books and magazines for all ages.

Shark Central offers everything to do with sharks. The shark-focused room features custom-designed exhibits, as well as real shark jaws. Visitors can find out about different shark species while playing the role of a shark researcher at the touch-screen table or by feeling miniature shark models.

The **aquarium tank** provides a glimpse of the underwater life found in the Dalebrook Marine Sanctuary in False Bay.

If visitors are unable to get down to the rock pools when it is raining or high tide, then the **touch pool** allows visitors to observe, touch and learn about the ocean.

The beautiful and fascinating tiny details of marine life are made possible with the **microscope bench**. One can zoom in and discover details too small for the naked eye and to let the creatures share their secrets with one.

In the **sustainable choices zone**, the centre shares its 'eco-code', which is their commitment to daily actions that limit our impact on the marine environment. This is a great place to chat about some of the choices or actions that one can take in their lives to live more sustainably.

The **outdoor courtyard** has been transformed into a magical underwater realm. Take a seat in front of the colourful beach huts on the shore of False Bay or explore the rocky shores before braving the crashing waves to enter the towering kelp forests that lead into the deep pelagic ocean. Come and marvel at the sharks and other animals that live in these habitats. This area is home to their recycled shark sculptures that showcase the most common shark species found in False Bay.



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GUIDED TOUR BOOKINGS:

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<http://saveourseas.com/sosf-shark-education-centre/>



28 Main Rd, Kalk Bay, Cape Town, South Africa.
Visiting schools should use the Dalebrook Road ('Pup') entrance.



Save Our Seas Foundation Shark Education Centre



@sharkcentre



@sharkcentre





NON-PROFIT ORGANISATION: WESSA



THE WILDLIFE AND ENVIRONMENT SOCIETY OF SOUTH AFRICA

The Wildlife and Environment Society of South Africa (WESSA) is a South African environmental organisation that aims to initiate and support high impact environmental and conservation projects to promote participation in caring for the Earth. WESSA educates, advocates and acts for environmental and social justice through sustainability education, strategic partnerships, and conservation programmes to drive climate action, protect and restore biodiversity, and reduce pollution.

MISSION:

Their mission is to educate, advocate and act for environmental justice through policy, legislation and media engagement, sustainability education, strategic partnerships, compliance monitoring and conservation programmes to drive climate action, protect and restore biodiversity and reduce pollution.

VISION:

To be a trusted and highly effective organisation confronting the challenges of environmental degradation with scientifically backed knowledge, professional experience, and volunteer.

VALUE PROPOSITION:

WESSA's programmes and partnerships enable climate action, protect, and enhance habitat and biodiversity integrity, and reduce terrestrial and aquatic pollution.

THEMATIC FOCUS AREAS

- ### Climate Action

Combatting climate change is in South Africa's best interest. National circumstances and developmental needs require that the country prioritises this. It affects not only environmental realities but the economy and society too. South Africa needs to join other countries that have shifted toward low-emissions policies that affect how global trade and demand for goods and resources are shaped by such policy change. It is also needs to be a major contributor to combatting poverty and the eradication of inequality.
- ### Biodiversity and Habitat Integrity

When a country protects biodiversity and habitats, they also support Africa's development needs and protect these needs for future generations. For this to be truly successful it does require a new way of thinking about biodiversity and habitats to make it a part of the development agenda. It is important to work outside the boundaries of the traditional protected spaces and work with people on how this can be done in their everyday lives so that we can positively impact formal and informal protected areas.
- ### Pollution Reduction

To win the battle against pollution, it begins with understanding the true impact pollution has on the environment and people's livelihoods. Pollution requires a lot of attention from a human health as well as biodiversity perspective. WESSA aims to foster synergy with the government, private sector, and civil society organisations in developing a structured approach to address and reduce pollution particularly in the country's aquatic ecosystems.
- The organisation aims to contribute to conserving the Earth's vitality and diversity by:

 - Promoting sound environmental values and sustainable lifestyles
 - Integrating conservation and development

- Encouraging and generating individual and community action
- Enabling and growing a vibrant and active broad-based membership
- Securing the protection and wise use of natural resources
- Acting as an environmental watchdog
- Influencing policy and decision-making
- Responding to changing needs
- Fostering collaborative partnerships

As a national leader in environmental education, that invests in youth and facilitates transformation in schools through innovative programmes that offer project-based learning, WESSA works with schools and teachers throughout South Africa to support and improve school curricula with regard to environmental learning, equipping children to live sustainably in the future.

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- ### Programmes Offered

 - Eco-schools South Africa Programme
 - WESSA schools entrepreneurship programme
 - WESSA ECD programme
 - Young Reporters for the environment
 - WESSA energy and water programme
 - Learning about forests (LEAF)
 - Ecocampus
- For more information on school programmes offered go to <https://wessa.org.za/our-work/schools-programme/>

WESSA commemorates and celebrates many of the environmental calendar days through its programmes such as the WESSA Schools Programmes, the Green Coast and Blue Flag Programmes.

The WESSA Environmental Calendar on pages 66 and 67 are celebrated by WESSA.



Summary of Environmental Education Topics and Target Age Groups

Theme		Teacher's Workshops	Grades R - 3	Grades 4 – 7	Grades 8 – 12
	Marine	✓	✓	✓	✓
	Biodiversity	✓	✓	✓	✓
	Heritage	✓	✓	✓	✓
	Water	✓	✓	✓	✓
	Waste	✓	✓	✓	✓
	Climate Change	✓	✓	✓	✓
	Sustainable Living	✓	✓	✓	✓



GREEN BUSINESS: WORKING ON FIRE



WORKING ON FIRE

Working on Fire strives to create communities adaptive to wildfires, through cohesive partnerships with communities, Fire Protective Associations (FPA's), public and private sectors, promoting shared resources.

Their school awareness programmes and lesson plans are aligned to the Schools curriculum, that enables them to present valuable and applicable educational topics.

Working on Fire's vision is to be the leading global Integrated Fire Management (IFM) agency, making a sustainable difference in the environment and people's lives. Its core business is IFM and implementing the Working on Fire (WOF) Expanded Public

Works Programme. The WOF Programme is a government-funded, job-creation programme, that recruits youth from marginalised communities, trains them in fire awareness and education, prevention and fire suppression skills and employs them as WOF Participants.

The organisation employs nearly 5000 young men and women, stationed at 200 bases across the country.

Throughout the company, from the MD to staff and participants, Working on Fire aspires to be a company that really cares and is committed to protecting and saving lives, properties and the environment.

Summary of Environmental Education Topics and Target Age Groups

Theme		Teacher's Workshops	Grades R - 3	Grades 4 – 7	Grades 8 – 12	Adults
	Fire	✓	✓	✓	✓	✓
	Biodiversity	✓	✓	✓	✓	✓
	Heritage	✓	✓	✓	✓	✓
	Water	✓	✓	✓	✓	✓
	Waste	✓	✓	✓	✓	✓
	Climate Change	✓	✓	✓	✓	✓



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NON-PROFIT ORGANISATION: SAEP



SOUTH AFRICAN EDUCATION PROJECT

The South African Education Project (SAEP) is registered as a non-profit organisation whose mission is to prepare and motivate children and youth from under-resourced communities to thrive through education, life skills, and psycho-social support. Their vision is a generation of motivated South African youth, equipped with education and life skills to maximise their potential and contribute to society.

Strategic objectives include education systems that strengthen and improve service delivery, contribute to social and economic development support, advance the holistic approach to education, all while advancing environmental awareness and sustainability. This results in:

- Upskilled and confident teachers, knowledgeable on different methodologies to apply in class
- Improved literacy, learning habits and child retention at schools
- Improved access to psychosocial support and referral pathways
- Improved teacher-child and caregiver interaction
- Early identification of barriers to learning and reduction of factors hindering natural progression of learners

Their programmes intervene at critical phases in the educational journey:

- Foundation phase - Early Childhood Development (ECD) and Primary School - to prepare children for education
- High school phase to broaden learners' life experiences through exposure to stimulating educational and environmental excursions, and life skills workshops, to prepare them for high school.

A series of common themes cut across their numerous programmes, of which one is environmental awareness as the SAEP places a great deal of focus on the environment in a variety of different ways.

ECD centres are encouraged to start vegetable gardens if they have the space to do. Primary school children have environmental themes incorporated into their reading programme and go on outings to introduce them to animals and nature.

High school learners go on hikes, camps and beach clean ups to raise awareness of environmental issues and to introduce them to careers in this field. In addition to teaching learners about the environment, SAEP also uses these activities to develop critical thinking skills, resilience, healthier lifestyles, self-awareness and a broadened view of the world

Other cross cutting themes include:

- Psycho-Social Support
- Empowerment of Women & Girls
- Community Service
- Mentoring
- Arts

SAEP PROGRAMMES

- **ECD Programme** interventions focus on early learning programmes and enterprise development in under-resourced township educare centres
- **Primary School Programme** interventions focus on strengthening literacy and reading
- **High School Programme** interventions focus on digital literacy, life skills and stimulating environmental extra-mural activities among others

(More information on the programmes: <https://www.saep.org/programmes>)

ACTIVE CALENDAR DAYS

World Wetlands Day	2 February
World Water Day	22 March
World Environmental Day	5 June
Africa Day	25 May
Nelson Mandela International Day	18 July
Arbour Week	September
International Coastal Cleanup Day	16 September
National Marine Week	2 nd Week in October
World Oceans Day	8 June
Youth Day	16 June

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South African Education Project : SAEP



GREEN BUSINESS: PLANT THE SEED



PLANT THE SEED

Plant the Seed is on a mission to build the circular economy through education and infrastructure.

Their flagship offering is 'The Zero Waste' project that is a replicable, scalable waste-reduction programme that provides schools and organisations with the infrastructure, training, and classroom education to recycle more effectively, compost food waste and reduce waste sent to landfills.

Plant the Seed's sustainability experiences offering includes a Sustainability Institute Tour that aims to showcase the multi-faceted approach to sustainable living and education, as well as a regenerative farming experience that showcases the regenerative farming practices at Spier wine farm.

MORE ON THE ZERO WASTE TOOLKIT

The Zero Waste Toolkit sets out to understand a school's waste system as a whole and identify opportunities for recycling and managing food waste. The toolkit includes an educational workshop that investigates the amount and breakdown of waste types generated on a school's campus.

The 3-hour waste audit educational workshop conducted with up to 30 learners at a time is an investigation into how much waste is generated at the school, including: traditional waste, recyclables and compost, and e-waste. It is the first step to becoming a zero-waste school.

This workshop and audit facilitates an understanding of the percentage breakdown and weight of various waste materials in

the schools' bins on an average week and to distinguish recyclable vs non-recyclable waste and what food waste can be composted. It also enables learners to gain insight into the patterns of waste disposed of at the school and also helps to identify and observe weak points in the waste system and develop specific solutions to the identified issues.

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NON-PROFIT ORGANISATION: SUSTAINABILITY MATTERS



SUSTAINABILITY MATTERS

Sustainability Matters is a non-profit sustainability education and youth development organisation that explores the idea of sustainability as a global, local and personal challenge that interweaves issues of environmental and social justice. Their purpose is to validate youth and respect their voice, whilst engaging with the issues that will define their future. This is achieved in partnership with organisations that share the same aspirations as they do.

They use a combination of presentation, investigation, experiential encounters and reflecting, expanding knowledge of self and sustainability to provide scholars, unemployed youth and young employees with the knowledge and confidence to determine individual and collective action and work paths that lead to sustainable lifestyles and lives..

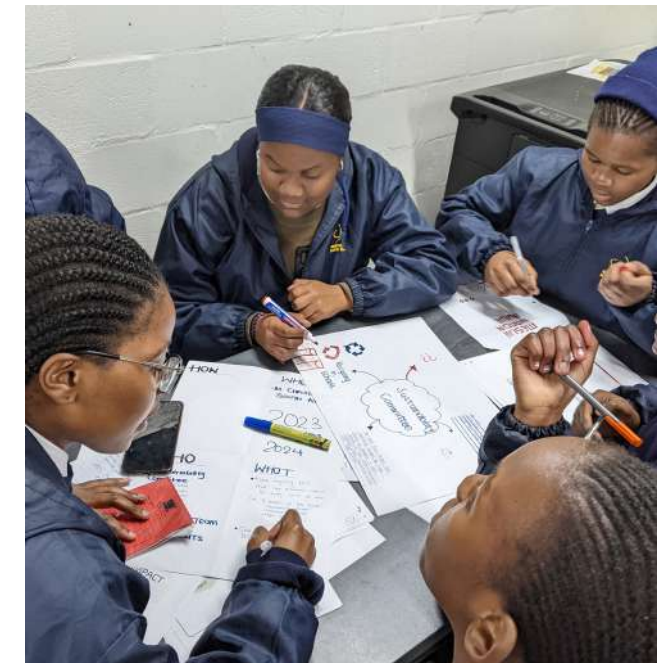
Sustainability Matters recognises that the life experiences that their participants carry inside them often hinder the development of confidence and self-regard. Their approach to education for sustainability thus integrates processes that allow for creative expression and that free up emotional logjams through body-heart-mind work.

THEIR WORK

The principles underlying education for sustainability they find have most resonance with their work are:

- Sense of self and hope
- Systems thinking
- Collaboration -working with not working for
- Embracing multiple perspectives and differences
- Understanding change as a non-linear process
- Resilience as an emergent property of communities that are interconnected

Sustainability Matters offers a well-developed curriculum that is researched and rooted in social and natural sciences and a clear understanding of sustainability concepts, pedagogy and social processes required to transfer these understandings in a way that best accesses the thinking, behaviour and motivation of students. Their work benefits from the intellectual contribution of professional teachers who have a research and practice focus, experienced community and youth workers, as well as collaboration with sustainability leadership development experts.



VALUE PROPOSITION:

They share with many youth-development programmes the desire to create opportunities for emotional intelligence, self-management, understand motive, and the confidence to act with clarity and integrity in the world – to advance insight, empathy, and agency.

They work through a 'sustainability lens' which means developing in students a deep understanding of the interconnectedness between people and planet, expanding their view of the world to understand it in terms of systemic relationships and complexity rather than isolated events.

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NON-PROFIT ORGANISATION: ENVIRONMENTAL MONITORING GROUP



ENVIRONMENTAL MONITORING GROUP

'No Environmental Justice Without Social Justice – Solidarity Between People and the Planet' is the slogan for the Environmental Monitoring Group, or EMG as the organisation is known.

EMG's vision is working for a world where there is unity between people and nature, for environmental justice and social equity for all life. They believe that fairness and justice must be at the heart of any effort to conserve and protect the natural environment, which sustains life on Earth.

Their aim is to facilitate processes that lead to healthier, more respectful relationships with each other and the environment, restoring ecosystems and building a sustainable future.

EMG works to demonstrate the skills, ideas, strategies, and relationships necessary to nurture vibrant, self-governed, ecological communities that are free from hierarchy, social inequity, and ecological degradation.

They work at a local level where the impact of climate change is most directly experienced and the potential for innovative and sustainable solutions is the greatest. The starting point is at a community level where people's lives intersect directly with the natural environment around them. Focus is placed on water, agroecology and climate change and EMG facilitates community-controlled change, ecological alternatives, and adaptability.

EMG also works with food growers and farmers mainly along the Kuils River Catchment Area, advocating for agroecology – a local solution to the global climate crisis. Through Eco-Design, Asset Based Community Development and Indigenous Knowledge Systems farmers are learning, organising and building networks to strengthen knowledge and skills to secure healthy food and sustainable livelihoods while adapting to environmental changes – drought and dwindling water sources – to produce working with healthy ecosystems, restoring soil and protecting water sources and living harmoniously with the environment.

ENVIRONMENTAL CLUB SCHOOLS PROGRAMME

EMG works with five high schools in the Kuils River Catchment Area, mainly Mfuleni, Khayelitsha and Makhaza, towards environmental health through campaigning for protection of rivers and wetlands, cleaner communities and schools.

The environmental clubs programme aims to promote an environmental community, working collectively towards the reclaiming and cleaning of the Kuils River with projects that support the community and address poverty, unemployment and inequality. This is done to incorporate environmental education in the daily lives of pupils and to encourage youth to put environmental education at the centre of their learning.

The environmental clubs programme consists of 30 learners each from five high schools in Mfuleni and two representative Geography and Science teachers. The learners are 14 to 18 years of age and in grades 8 to 12.

The environmental clubs programme participates in numerous activities including, but not limited to, celebration of environmental calendar days with thematic activities, annual Action for Climate Change movements, Youth Leadership Camps, Nature Reserve excursions, participatory research along the Kuils River, waste management awareness and cleanups, creative arts for social change, and information-sharing workshops.

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Environmental Monitoring Group



envmongroup2023



@EnvMonGroup





NON-PROFIT ORGANISATION: SHARK SPOTTERS



SHARK SPOTTERS

The Shark Spotters Education Programme offers a variety of educational courses with a specific focus on sharks and the ocean environment. Their core mandate is to foster a greater understanding of sharks and their important role in the ecosystem, which will ultimately change people's perspective on sharks, from fear to acceptance. They introduce the marine and coastal environment by engaging with participants through, interaction, discussion, and practical experiential learning opportunities in a conducive outdoor environment context, as well as explore and use the beaches along the False Bay coastline as an outdoor classroom for teaching and assimilation of content relevant to coastal and marine ecosystems.

Shark Spotters is at the forefront of creating a meaningful platform to transform the way children learn by enhancing knowledge and understanding through inquiry-based learning science activities at the beach. They are an implementing agent promoting quality-based education and interdisciplinary programme activities that are designed for all levels of education, allowing opportunities to expand on education and awareness initiatives in the blue and green economy.

Their team of dedicated, qualified, and trained facilitators possess a vast amount of knowledge of pedagogic skills and subject-based curricula. They conduct programmes at a high academic level to ensure the correct and relevant information is being transferred.

All their courses are grade specific and aligned to the National Curriculum Statement (RNCS) and IEB curriculum. This gives the opportunity for classroom integration. They are able to accommodate groups with a minimum of 20 people and up to 80 people.

The following Ecosystem Courses are offered:

1. Shark Ecology/Conservation/Shark Safety
2. Rocky Shores Study
3. Waste Management
4. Urban Management Study
5. Climate Change and Sustainable Development
6. Coastal Geomorphology / Sandy Shores (High-level only)
7. Dune Succession (High-level only)

8. One Research Task (IRP)
9. Beach Cleanups
10. Other (They can tailor-make a desired programme that meets specific educational expectations)

Adventurous and Leadership Courses:

1. Group Dynamics (Capacity and Teambuilding)
2. The Presidents Awards programme
3. FGASA Junior Field Guides
4. Teacher Workshops and Training
5. Ecological Club programmes
6. Amazing Race
7. Kids Shark Club – Holiday Programme

Duration of Programmes:

- Half Day – (1-4 hours max)
- Full day – (5 hours and more)

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Location: Surfers Corner, Muizenberg Beach, Cape Town 7945



@sharkspotters



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KIDS SHARK CLUB – HOLIDAY PROGRAMME:

This is 3–5-day holiday programme for children between the ages of 6-12 years where children are invited to participate and engage in various educational and fun activities, whilst learning about the wonders of the oceans. The pioneering concept behind the Kids Shark Club holiday programme is to reconnect the youth with the outdoor environment with a specific focus on learning more about sharks and marine life. The programme is structured according to a variety of environmental themes, and the activities associated with these themes are adapted to encourage the children not only to learn about the ocean but for them to understand the importance of preserving our marine and coastal ecosystems.

During the programme, children are encouraged to interact with their associated outdoor environment on the beach while learning about the marine organisms found along the rocky shore intertidal zones, engaging in science experiments, showcasing their creativity through art and craft activities, and learning more about shark conservation and how to be shark safe.

When	School Holidays
Where	Surfers Corner, Muizenberg Beach, and Fish Hoek Beach.

INTERNATIONAL COASTAL CLEANUP

Public Event: September

International Coastal Cleanup began in 1986, when communities rallied together, working towards one common goal which involved collecting as well as documenting all the trash polluting their beaches and coastal waterways.

Shark Spotters supports this global movement as they advocate for our oceans and inspire environmental action within our communities. The public are invited to join them in this worldwide movement for environmental change and action by helping us clean our coastal areas.

WORLD OCEANS DAY

Public Event: 8 June

Marine wildlife faces multiple threats, and it is our responsibility to TAKE ACTION. Shark Spotters takes part in this worldwide movement to create awareness about the crucial role our oceans play and inform the public about the impacts of human actions on our oceans.

BEACH EDUCATION ACTIVATION POP-UP

During the December/January school holidays Shark Spotters actively engages the public in this initiative to educate and bring awareness to beach visitors about shark safety and responsible ocean safety use during the peak season.

Shark Awareness Day: 14 July





NON-PROFIT ORGANISATION: I AM WATER

I AM WATER
OCEAN CONSERVATION

I AM WATER OCEAN CONSERVATION

Ocean Conservation through transformative experiences for youth in under-resourced communities.

In addition to fostering a community of conservationists in low-income communities, I AM WATER believes that youth who spend time in nature experience healthy emotional development. They work with schools located within the Western Cape in under-resourced communities and target Grade 7 learners.

THEIR PROGRAMMES

Ocean Guardians Workshops

The Ocean Guardians Workshops are their flagship programme consisting of two full school days of ocean exploration spent at the beach practicing yoga-inspired stretching, breath work, mindfulness and learning about marine ecosystems and ocean challenges, the human body's unique adaptation to being underwater and exploring the intertidal zones and rock pools with marine experts.

A key focus of the workshops is the snorkel station where participants are given the opportunity to see the life that is found below the surface of the ocean. This is an important aspect of the Ocean Guardians Workshops because it connects participants to the ecosystem by allowing them to be a part of it.

Learning how to be confident in deeper water, understanding the ocean better and of course seeing the incredible life the ocean holds. From majestic kelp forests, to octopuses, small cat sharks, brightly coloured urchins and anemones to an array of fish species. These workshops take place at various Marine Protected Area beaches in Cape Town to draw attention to the impact and importance of creating protected spaces where marine life can thrive.

River Guardians Workshops

The River Guardians Workshops are a one-day experience intended to highlight the connection between river health and ocean health. The workshops use environmental education as a tool to discuss topics like the water cycle, river health, conservation challenges and empowering solutions to the challenges presented.

River ecosystem exploration and river bank cleanup activities are used to further deepen the understanding of this message. These workshops take place along two different sections of the Liesbeeck river in Cape Town and focus on allowing participants to see the connection between rivers and the ocean and how their actions can positively impact the natural ecosystem as a whole.

I AM WATER SCHOOLS SPEAKING SERIES

Education, exploration and understanding are the first steps to healthy rivers and oceans and this is exactly what the Schools Speaking Series aims to do. This programme involves representatives visiting schools and delivering informative, fun and engaging presentations. The presentations focus on how humans are connected to the ocean, the gifts the ocean gives us, the challenges the ocean faces, and ways for everyone to be a part of the solutions to these challenges.

The presentation is aligned to the South African Curriculum Assessment Policy Statements (CAPS) curriculum to reinforce ideas and concepts already encountered and at the same time to engage learners with new concepts and ideas, but also to send home ideas and concepts that they have already encountered. The partnership with the Western Cape Education Department (WCED) means that the Speaking Series not only allows I AM WATER to have impact in schools, but also provides meaningful employment to their team of coaches.

COACHING COMMUNITY

I AM WATER's team of coaches is at the heart of the work they do. The coaching community comprises marine scientists, NSRI crew members, lifeguards and incredible ocean conservation advocates who are from the communities that they work with. The coaches are strong and empowering role models to the participants of their various programmes.

The coaching community is provided training in first aid, free diving, public speaking, photography and career development skills in order to equip coaches with the skills to develop on not only a personal level, but a professional level too.

PUBLIC POP-UPS

The Public Pop-Ups are a free offering to beachgoers during the summer months. The I AM WATER team sets up at various beaches around Cape Town and runs a condensed version of the 2-day Ocean Guardians Workshops, to beachgoers aged 8-15yrs old.

Pop-Ups are an opportunity to introduce participants to the wonders of the ocean while imparting the importance of our actions on the health of the ecosystem.

As part of their fundraising, they also offer paid Holiday Snorkel Camps during the Summer holidays. Over the two days, children will learn how to snorkel confidently and safely, interact with amazing ocean animals and learn all about ocean conservation. Participants will leave having learnt new skills while feeling empowered to protect the ocean!

CONTACT US



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2023 Environmental Days



WESSA

PEOPLE CARING FOR THE EARTH



www.wessa.org.za

January

- 19 International Flower Day
- 20 Penguin Awareness Day
- 26 World Environmental Education Day
- 31 International Zebra Day

February

- 2 World Wetlands Day
- 15 World Hippopotamus Day
- 18 World Pangolin Day
- 19 World Whale Day

March

- 3 World Wildlife Day
- 4 Community Cleanup Day
- 10 Solar Appreciation Day
- 12 Plant a Flower Day
- 14 International day of Action for Rivers
- 18 Global Recycling Day
- 20 World Frog Day
- 21 International Day of Forests
- 21 Human Rights Day
- 22 World Water Day
- 23 World Meteorological Day
- 25 Earth Hour

** South Africa also celebrates Water Week during March*

April

- 3 World Aquatic Animal Day
- 7 World Health Day
- 13 International Plant Appreciation Day
- 22 Earth Day
- 25 World Penguin Day
- 27 World Hyena Day

May

- 2 World Tuna Day
- 3 International Leopard Day
- 3 World Sun Day
- 7 – 13 International Compost Week
- 13 World Migratory Bird Day
- 20 World Bee Day
- 20 Endangered Species Day
- 22 International Day for Biodiversity
- 23 World Turtle Day
- 25 Africa Day

June

- 1 World Reef Day
- 5 World Environment Day
- 8 World Oceans Day
- 16 Youth Day
- 17 World Day to Combat Desertification and Drought
- 17 World Crocodile Day
- 21 World Giraffe Day
- 22 World Rainforest Day

July

- 14 Shark Awareness Day
- 14 World Chimpanzee Day
- 15 World Youth Skills Day
- 16 World Snake Day
- 18 Nelson Mandela Day
- 26 World Mangrove Day
- 28 World Nature Conservation Day
- 29 National Science Week Starts
- 31 World Ranger Day

August

- 3 National Science Week Ends
- 4 International Clouded Leopard Day
- 9 Women's Day
- 10 World Lion Day
- 12 World Elephant Day
- 23 World Water Week Starts
- 26 World Mosquito Day
- 26 World African Wild Dog Day
- 30 International Whale Shark Day
- 30 Arbour Week Starts
- 31 African Traditional Medicine Day

September

- 5 Arbour Week ends
- 16 International Day for the Preservation of the Ozone Layer
- 16 International Coastal Clean Up Day
- 18 World Water Monitoring Day
- 21 Zero Emissions Day
- 22 World Rhino Day
- 24 World Rivers Day
- 26 World Environmental Health Day
- 27 World Tourism Day

October

- 2 World Habitat Day
- 4 World Animal Day
- 5 World Teacher's Day
- 5 Energy Efficiency Day
- 14 E-waste Day
- 14 African Penguin Day
- 16 Sustainability Day
- 17 International Day for Eradication of Poverty
- 21 Earth Worm Day
- 21 World Food Day
- 21 National Reptile Day
- 24 International Day of Climate Action

November

- 5 World Tsunami Day
- 4 National Children's Day
- 6 International Day for Preventing the Exploitation of the Environment in War and Armed Conflict
- 19 World Toilet Day
- 20 World Children's Day
- 21 World Fisheries Day

December

- 1 World AIDS day
- 4 International Cheetah Day
- 4 Wildlife Conservation Day
- 5 World Volunteer Day
- 5 World Soil Day
- 11 International Mountain Day
- 14 International Monkey Day

Remember to align any planned activities on special days to the SDG goals!



SUSTAINABLE DEVELOPMENT GOALS



NATURE CONNECT
Changing lives through nature



SUSTAINABILITY
MATTERS



plant the seed

“The environment is where we all
meet, where we all have a mutual
interest, it is the one thing that all
of us share”

Lady Bird Johnson



save our seas
shark education centre



WORKING
ON FIRE



**environment, forestry
& fisheries**
Department:
Environment, Forestry and Fisheries
REPUBLIC OF SOUTH AFRICA

