Learning Through Action Education for Sustainability LEOTC

Programmes for Schools 2017



Christchurch City Council Ccc.govt.nz/learningthroughaction

KO tO AO, ko tōku ao "Your world is my world"

Programme Location Map



Learning Through Action programmes are available at the following core sites (for alternative sites please contact us):

More Information

Check our website for updates and for more information regarding the content of our programmes: ccc.govt.nz/learningthroughaction

- Phone (03) 941 8999
- Email LTA@ccc.govt.nz

To book a programme, follow the link below. Please fill in a separate form for each class attending. ccc.govt.nz/learningthroughaction/booking

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Learning Through Action

EDUCATION FOR SUSTAINABILITY LEOTC PROGRAMMES FOR SCHOOLS

The Christchurch City Council offers a range of environmental and city infrastructure programmes that are **free to schools.** These programmes provide relevant and authentic learning experiences through hands on activities.

Learning areas covered in the programmes include: biodiversity, sustainability, geology, waste management, water conservation and local government.

This booklet briefly describes the programmes available to teachers and students.

For further details of programmes including programme outlines, **links to the NZ Curriculum and RAMS** please visit the Christchurch City Council's Learning Through Action website: ccc.govt.nz/learningthroughaction

Our programmes cater for students from new entrants to Year 13. Learning Through Action Programmes are supported by the Ministry of Education – The Christchurch City Council Education Team is a Learning Experiences Outside The Classroom (LEOTC) provider.

BOOKINGS

To book any of the programmes in this booklet please fill in a separate form for each class you are booking. Book online at: ccc.govt.nz/learningthroughaction/booking



Civil Defence

CIVIL DEFENCE EMERGENCY MANAGEMENT (CDEM) EDUCATION PROGRAMMES – *Stan's Got a Plan*

The Christchurch City Council also offers **free** Civil Defence Programmes to schools, concentrating on disaster awareness and preparedness; including reduction, readiness, response and recovery. Please note CDEM programmes are run at your school. See page 11 for further information.



Year level:	Year 0–13	
Curriculum level:	1-8	A PAR
Availability:	Available year round	L'
Times:	9–10.30am, 11am–12.30pm or 1.30–3pm	4
Site:	At your school	
Cost:	Free	
Number of students:	Maximum of 35 students per session.	



Beach and Shore Habitats

COASTAL MANAGEMENT – Taku tai, takutai

Students will have the opportunity to explore the coastal environment while examining the issues on the hot topic of coastal management. They will also explore the issue of coastal erosion – through natural processes and human interference. With the Coastal Park Rangers, students build their own beach profile discovering different coastal management techniques.



ON THE ROCKS

Explore the rocky seashore and intertidal zone for creatures at Taylors Mistake or Sumner Beach. Students discover the amazing adaptations these life forms have made to survive in the coastal environment, and put their creative thinking to work with a design-a-creature challenge.



Year level:	Year 3–6
Curriculum level:	1-3
Availability:	Available year round
Times:	2 ¼ hours between 10am and 2pm (tide dependent)
Site:	Taylors Mistake Beach or Sumner Beach
Cost:	Free
Number of students:	Maximum of 35 students

SAVING THE SAND DUNES – Kia ora ai a tāhuahua

In this programme students explore the erosion process, then build their own mini sand dunes to understand the secret behind them and how they work to protect the coastal environment.



Year level:	Year 3-8
Curriculum level:	1-4
Availability:	Available year round (tide dependent)
Times:	9.30-11.30am or 12.30-2.30pm
Site:	Spencer Park Beach, Waimairi Beach, North New Brighton Beach, New Brighton Beach, South Brighton Beach and Sumner Beach
Cost:	Free
Number of students:	Maximum of 35 students

Beach and Shore Habitats

SEARCHING THE SHORELINE – Te ara rau o Tangaroa

What's on the beach? What gets washed up and what shouldn't be there? This is a chance for students to investigate objects on the beach – natural and unnatural – and identify ways that they can contribute to sustainable coastal areas.



Biodiversity

CREATIVE AND NATIVE – He rerehua, he taketake

In the Botanic Gardens, students investigate how and why New Zealand biodiversity has changed over time. Students explore scientific terms around the origin status of our biodiversity, identify native trees and plants, and become a flock of migratory birds to consider the challenges facing the sustainability of natural habitats.



Year level:	Year 5–8
Curriculum level:	2-4
Availability:	Available year round
Times:	9.30am–12n0on or 12.15–2.30pm
Site:	Christchurch Botanic Gardens
Cost:	Free
Number of students:	Maximum of 35 students

FOREST SURVIVOR – He uri a Tāne

Become a Forest Survivor! Students learn about safety in the outdoors, including how to build a bivouac shelter out of fallen materials. They will identify organisms making their home in the exotic forest environment, and adventurous students will have the opportunity to try a squirmy huhu grub – learning the importance of using wild food for survival.



Year level:	Year 3–8
Curriculum level:	1-4
Availability:	Available year round
Times:	9.30-11.45am or 12.30-2.30pm
Site:	Bottle Lake Forest Park or Spencer Park
Cost:	Free
Number of students:	Maximum of 35 students

FRESHWATER FROLICKING – Te whawhewahwhe ki rō waimāori

Ever wondered what lives in our freshwater Reserves? Students go pond-dipping to identify a range of stream invertebrates and explore the wider food chains and life cycles. They consider the importance of our biodiversity eating nutritionally and appropriately, as well as investigating the impact of human choices on the sustainability of our ecosystems.

Year level: Curriculum level: Availability: Times: Site: Cost:	Year 3–8 1–4 Available year round 9.30–11.45am or 12.30–2.30pm (The Groynes) 9.30am–12n0on or 12.15–2.30pm (Styx Mill) The Groynes or Styx Mill Conservation Reserve Free
Number of students:	Maximum of 35 students

JUNIOR PARK EXPLORERS – Ngā Kairangahau Paaka

The regional parks come alive as students awaken their senses to explore the awe and wonder of the natural world. They learn to listen to different bird calls, feel the different parts of a tree and see bugs in their natural habitat. Through these activities, students understand how birds, bugs and trees are all connected.



Year level:	Year 0–2
Curriculum level:	1-2
Availability:	Available year round
Times:	9.30-11.45am or 12.15-2.30pm
Site:	The Groynes, the Botanic Gardens, Halswell Quarry, Victoria Park , Spencer Park, Travis Wetland or local parks by negotiation.
Cost:	Free
Number of students:	Maximum of 30 students

PARK DETECTIVES – Titeketiwhi Paaka

Students develop their detective skills in learning why our local parks are so important. Hands on activities enable them to describe the key roles of birds, insects and trees in balanced ecosystems. Students then engage in a problem-solving process to propose action for a sustainable future!



Year level:	Year 3–5
Curriculum level:	1-4
Availability:	Available year round
Times:	9.30am-12noon or 12.15-2.30pm
Site:	Christchurch Botanic Gardens
Cost:	Free
Number of students:	Maximum of 35 students

NATIVE NURTURING – Manaaki Whenua

Explore the contrasting landscapes of the Port Hills at Victoria Park! Discover how the unique Port Hills environment has changed over time and take a multi-sensory walk through majestic Podocarp forest. Students get up close and personal with pests to consider their impact on our native and endemic species, and have the opportunity to learn about tracking and trapping methods used by Park Rangers.



WETLANDS, WADERS AND WATER BOATMEN – Ngā kaitia, ngā kaikauhoe me ngā kūkūtai

Take a trip to Travis Wetland - Christchurch's largest freshwater wetland and a precious habitat for native wetland plants and creatures. Students learn about the importance of wetlands, and explore the local biodiversity. Go pond-dipping to discover underwater species, get behind a pair of binoculars to observe the bird life, and consider the potential human impact on food chains.



Year level:	Year 3-8
Curriculum level:	1-4
Availability:	Available year round
Times:	9.30am–12noon or 12.15–2.30pm
Site:	Travis Wetland
Cost:	Free
Number of students:	Maximum of 35 students
Requirements:	In wet conditions, gumboots are recommended

City Water and Waste

ALL FLUSHED OUT – Heketua, heke ki whea

What are the three main waterway systems in Christchurch? How do we contribute to them? Students explore the fascinating wastewater journey at the Christchurch Treatment Plant, including finding out what happens to everything that goes down the drain. Be prepared for a revival of the senses - this can be a smelly one!

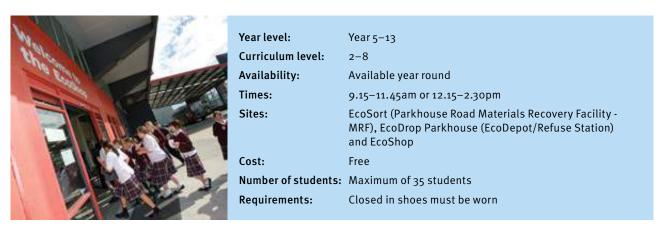


Year level:	Year 5–13
Curriculum level:	2-8
Availability: 	Available year round
Times:	9.30am–12n0on or 12.15–2.30pm
Site:	Christchurch Wastewater Treatment Plant
Cost:	Free
Number of students:	Maximum of 35 students
Requirements:	Closed in shoes must be worn
Please note special adult:student ratios on our website	

City Water and Waste

A WASTE OF TIME – Hangaruatia

Ever wondered what happens to your recycling after it is collected from the kerbside? Where does it go, and what is it recycled into? On this programme students learn about the reduce, reuse and recycle aspects of the waste management hierarchy at three key sites: EcoSort, EcoDrop, and EcoShop.



CASTING MAGIC WITH WORMS – Noke, noke, neke, neke, nuku, nuku, nā!

Even worms are doing their thing for the environment! A programme aimed at junior students to discover the important role worms can play in our waste management system. Students search for worms, create their own mini worm farm to take back to school, and learn how to care for these amazing creatures.



Year level:	Year o-4
Curriculum level:	1-2
Availability:	Available year round
Times:	9.30–11.30am or 12.30–2.30pm
Sites:	EcoDepot/EcoDrop (Metro Place) or Curators House
	(Botanic Gardens)
Cost:	Free
Number of students:	Maximum of 30 students
Requirements:	Each student needs to bring a 1.5 or 2 litre plastic bottle ready for reusing. Closed in shoes must be worn.

FERTILISING FOR THE FUTURE – Ka whakatō te wairākau mō āpōpō

Learn the science behind using organic waste as a resource by turning it into natural fertiliser! For year levels 4-8 students investigate the methods of hot heap composting and vermicomposting. Students will layer ingredients to make hot compost and harvest liquid fertiliser from a worm farm. For year levels 9-13 students learn the method of hot heap composting and discover the anaerobic fermentation of food scraps using EM Bokashi. Students will follow a recipe to create Bokashi fertiliser to take back to school or home.



Year level:	Year 4–13
Curriculum level:	2-8
Availability:	Available year round
Times:	9.15–11.45am or 12.15–2.30pm
Site:	Ecodepot/EcoDrop (Metro Place)
Cost:	Free
Number of students:	Maximum of 35 students

City Water and Waste

WATER FOR LIFE – Te wai ora o Tāne

Students learn how to be waterwise at one of Christchurch's water pumping stations. They will investigate the importance of valuing water as a precious resource, compare water use around the world, and take a tour of the pumping station. Students can continue their learning at school with a Christchurch City Council water diary and mathematical challenge.



Year level:	Year 5–8
Curriculum level:	2-5
Availability:	Available year round
Times:	9.30–12noon or 12.15–2.30pm
Site:	Main Water Pumping Station, Colombo Street
Cost:	Free
Number of students:	Maximum of 35 students

WATCH YOUR WASTE – Taihoa koe i o para

Investigate effective waste minimisation and management processes through a visit to two key sites in Christchurch. At the Organics Processing Plant students will see where the green bin contents are processed, resulting in organic composting on a massive scale. Then, an opportunity to witness the drop zone in action at EcoDrop to see unnecessary waste being take to landfill. Students will put their understanding to the test in a final challenge to reduce, reuse and recycle.



Year level:	Year 3–13
Curriculum level:	2-5
Availability:	Available year round
Times:	9.30 – 11.45am or 12.15–2.30pm
Sites:	Organic Processing Plant (OPP), EcoDrop (Metro Place)
Cost:	Free
Number of students:	Maximum of 35 students
Requirements:	Closed in shoes must be worn.

Local Government - Participatory Democracy

ŌTAUTAHI, OUR CITY

Part 1: Te Hononga, Our Whare

Learn how Christchurch City Council works to make Christchurch a sustainable, fun and liveable city through a visit to Te Hononga, the central headquarters in town. Students will gain an understanding of what Council does, meet experts who work here, and take on a decision-making role as they plan how to spend ratepayer's money. We conclude with a visit to Council Chambers to see where key local government decisions are made. *Part 2 will focus on participatory democracy and having your say in local government (in planning - due July 2017)*.

	Year level:	Year 7–13
	Curriculum level:	3-8
	Availability:	Mondays mornings only (all year round).
		Minimum 4 weeks notice required when booking.
	Times:	9.30am – 12.30pm
	Site:	Christchurch City Council Civic Building (Te Hononga)
	Cost:	Free
	Number of students:	Maximum of 30 students
	Additional	Environment Canterbury (ECAN) offers an optional
Te Pou	Information:	afternoon programme to follow. Please enquire for more
Herenga Waka		information: education@ecan.govt.nz

ROCKY ROAD OF DISCOVERY – Te ara werowero ki Ō māramatanga

Take a journey back through time to see how the quarry was formed over millions of years. Discover how basalt rock has been a key component in Christchurch's early infrastructure and heritage sites. Students then role play as property developers, mountain bikers and local iwi to experience how the quarry was transformed into a Regional Park.



Year level:	Year 7–10 (an adapted programme for Year 5 and 6 is available on request)
Curriculum level:	1-4
Availability:	Available year round
Times:	9.30am–12noon or 12.15–2.30pm
Site:	Halswell Quarry Park
Cost:	Free
Number of students:	Maximum of 35 students
Site: Cost:	Halswell Quarry Park Free

Waterways and Wetlands

FRESHWATER FROLICKING – Te whawhewahwhe ki rō waimāori

Ever wondered what lives in our freshwater Reserves? Students go pond-dipping to identify a range of stream invertebrates and explore the wider food chains and life cycles. They consider the importance of our biodiversity eating nutritionally and appropriately, as well as investigating the impact of human choices on the sustainability of our ecosystems.



Year level:	Year 3-8
Curriculum level:	1-4
Availability:	Available year round
Times:	9.30–11.45am or 12.30–2.30pm (The Groynes) 9.30am–12noon or 12.15–2.30pm (Styx Mill)
Site:	The Groynes or Styx Mill Conservation Reserve
Cost:	Free
Number of students:	Maximum of 35 students

WETLANDS, WADERS AND WATER BOATMEN – Ngā kaitia, ngā kaikauhoe me ngā kūkūtai

Take a trip to Travis Wetland - Christchurch's largest freshwater wetland and a precious habitat for native wetland plants and creatures. Students learn about the importance of wetlands, and explore the local biodiversity. Go pond-dipping to discover underwater species, get behind a pair of binoculars to observe the bird life, and consider the potential human impact on food chains.



Year 3–8
1-4
Available year round
9.30am-12noon or 12.15-2.30pm
Travis Wetland
Free
Maximum of 35 students
In wet conditions, gumboots are recommended

Environmental Calendar of Events

FEBRUARY	MARCH	APRIL
- World Wetland Day	 Seaweek International Day of Forests World Water Day Farewell to the Godwits 	 World Health Day International Mother Earth Day Global Soil Week
MAY	JUNE	JULY
 World Migratory Bird Day International Day for Biological Diversity 	 World Environment Day Arbor Day World Oceans Day Matariki – Māori New Year 	World Population DayKidsFest
AUGUST	SEPTEMBER	OCTOBER
- World Water Week	 Keep NZ Beautiful Week World Rivers Day International Day of Peace New Zealand Conservation Week 	 NZ ShakeOut International Day for Disaster Reduction Heritage Week World Food Day
NOVEMBER	DECEMBER	
 World Tsunami Awareness Day International Buy Nothing Day World Toilet Day World Fisheries Day 	 Human Rights Day International Mountain Day 	

Adult: Student Ratios by Programme and Year Level Grouping

Learning Through Action Programme	Year Levels Attending				
	Years 1–3	Years 4–6	Years 7–8	Years 9–10	Year 11+
All Flushed Out	N/A	1:5 (Year 5–6 only)	1:6	1:8	1:10
A Waste of Time	N/A	1:6 (Year 5–6 only)	1:8	1:10	1:15
Casting Magic with Worms	1:5	1:6 (Year 4 only)	N/A	N/A	N/A

Learning Through Action Programme	Year Levels Attending				
	Years 1–3	Years 4–6	Years 7–8	Years 9–10	Year 11+
Coastal Management	N/A	N/A	N/A	1:10	1:15
Creative and Native	N/A	1:7 (Years 5–6 only)	1:9	N/A	N/A
Fertilising for the Future	N/A	1:6	1:8	1:10	1:15
Forest Survivor	1:5 (Year 3 only)	1:6	1:8	N/A	N/A
Freshwater Frolicking	1:5 (Year 3 only)	1:5	1:7	N/A	N/A
Junior Park Explorers	1:5 (Years o–2 only)	N/A	N/A	N/A	N/A
Native Nurturing	1:6 (Year 3 only)	1:7	1:8	N/A	N/A
On the Rocks	1:5 (Year 3 only)	1:5	N/A	N/A	N/A
Ōtautahi, Our City	N/A	N/A	1:8	1:10	1:15
Park Detectives	1:5 (Year 3 only)	1:6 (Year 4–5 only)	N/A	N/A	N/A
Rocky Road of Discovery	N/A	1:6 (Year 5–6 only)	1:8	1:10	N/A
Saving the Sand Dunes	1:6 (Year 3 only)	1:6	1:8	N/A	N/A
Searching the Shoreline	1:5	1:6 (Year 4 only)	N/A	N/A	N/A
Water for Life	N/A	1:8	1:9	1:10	1:15
Watch Your Waste	1:5 (Year 3 only)	1:6	1:8	1:10	1:15
Wetlands, Waders and Water Boatmen	1:5 (Year 3 only)	1:5	1:7	N/A	N/A

Civil Defence Emergency Management (CDEM)

CIVIL DEFENCE EMERGENCY MANAGEMENT EDUCATION PROGRAMMES – Stan's Got a Plan

Here in Christchurch we are all too aware of natural disasters. The Christchurch City Council provides an education programme called 'Stan's Got a Plan' to supplement the delivery of Civil Defence Emergency Management education in the classroom.

The programmes focus on one of the following events selected from:

- Earthquake Flooding
- Pandemic Tsunami
- Storm

Programmes are tailored specifically to the age of the students and are delivered in a sensitive and caring manner. The purpose of the programmes is to educate children so that they feel empowered, and prepared.

Programmes are FREE of charge and are offered at junior (Years 0-3), middle (Years 4-6) and senior levels (Years 7-13). Please note CDEM programmes are run at your school.



Year level:	Year o-13
Curriculum level:	1-8
Availability:	Available year round
Times:	9–10.30am, 11am–12.30pm or 1.30–3pm
Site:	At your school
Cost:	Free
Number of students:	Maximum of 35 students

For more information regarding Civil Defence Emergency Management programmes:

- Phone: (03) 941 8999
- Email: LTA@ccc.govt.nz

ccc.govt.nz/stansgotaplan

Bookings:

To make a booking, please fill in a separate online booking form for each class attending. Book online at ccc.govt.nz/learningthroughaction/booking



To check out our Civil Defence Facebook page, please visit: www.facebook.com/ChristchurchCDEM



Other CCC Programmes Available to Schools















DogSmart is a free 45 minute interactive presentation available to schools.

For more information and to book: Phone: **(03) 941-7046**

ccc.govt.nz/services/dogs-and-animals/dogsmart-education-programme/dogsmart-school-programme/

Learn about what the Graffiti Programme does and why we do it through our free interactive presentation tailored to meet the needs of your class.

For more information and to book: Phone: (03) 941 8999 Email: GraffitiProgramme@ccc.govt.nz

Developing confident, creative and collaborative learners through our dynamic technology based programmes.

For more information and to book: Phone: (03) 941 5140 Email: learningcentre@ccc.govt.nz my.christchurchcitylibraries.com/schools

Our art education programmes offer students first-hand experiences with real works of art. We offer guided tours, hands-on practical activities and workshops for all school levels.

For more information and to book: Phone: (03) 941 7373 Email: schools@christchurchartgallery.org.nz christchurchartgallery.org.nz/education

Cycle Safe is a programme for schools targeting Year 6 students. Children learn to ride with confidence and be road-wise. Cycle Safe is aligned with the NZ Transport Agency's national cyclist skills training guidelines.

For more information and to book: Phone: (03) 941 8999 Email: cyclesafe@ccc.govt.nz

ccc.govt.nz/cyclesafe

Travel Choice works with schools developing practical approaches that promote safer and more sustainable travel options for school journeys.

For more information regarding Travel Choice: Phone: (03) 941 8999 Email: TransportEducation@ccc.govt.nz ccc.govt.nz/schooltravelplanning

Crash Bash is an educational road safety programme for secondary school students organised in collaboration with the Police and funded in part by the New Zealand Transport Agency.

For more information and to book: Phone: (03) 941 8999 Email: crashbash@ccc.govt.nz crashbash.co.nz

ccc.govt.nz/learningthroughaction

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