Tēnā koutou katoa

This edition of SITE focuses on an educational activity called a BioBlitz. The main aim of a BioBlitz is to identify as many species as possible in a defined location over a set period of time. You can think of it as a scientific race against time and it is heaps of fun! A number of Taranaki schools ran BioBlitzes (tinyurl.com/PFBioblitz) last year in areas of local bush, parks and school grounds linking with Towards Predator-Free Taranaki. Over time, BioBlitzes provide an effective way to measure changes in biodiversity and species composition resulting from predator control.

BioBlitzes don't have to be restricted to dry land either. For example, this term Sacred Heart Girls College will be running an intertidal CoastBlitz on rocky reefs off New Plymouth and last year the Kaitiaki Group at Puketapu School ran a BioBlitz throughout the year investigating wetlands, streams and rocky reefs around Bell Block.

If you have time, there are many positive actions that can be taken following on from a BioBlitz, including removing pest species and creating improved habitat for valued native wildlife. I've included a few suggestions here but feel free to get in touch to discuss ideas further (education@trc.govt.nz). Either I can provide advice to help you run your own BioBlitz or I can organise and run a BioBlitz for your class with your support. Have fun!

Nāku noa nā,

Dr Emily Roberts



Over the last two terms, schools in Taranaki have been BioBlitzing up a storm! A BioBlitz is a concentrated effort to discover and record as many living things as possible within a set location over a limited time period. It provides a fun way for students to learn about biodiversity, including how to identify native species that need protecting and pest species that need removing.

Before launching into a BioBlitz it's a good idea to:

- plan your objectives
- define the target area
- decide on how you will record information e.g. set up a project in iNaturalist
- organise equipment and field sheets
- start thinking about follow up activities and actions

This edition of SITE will help you plan a BioBlitz. If you need help and support don't hesitate to get in touch (education@trc.govt.nz).



to do something quickly and intensively





Bio making a difference

After conducting a BioBlitz and analysing the results, it's well worth identifying activities and actions that your class can follow up on. Here are a few examples:

hird food

In your BioBlitz area, is there a good supply of food for native birds all year round? What do different species of native birds identified in your BioBlitz feed on? Check out this calendar (pdf) of plants for native birds:

https://tinyurl.com/birdcalendar

For the plant species identified in your BioBlitz draw up a calendar of when these species produce nectar, fruit and seeds. Are there any times of the year when tūī, korimako (bellbird) and kereru will be short of food? What species can you plant in the BioBlitz area to plug these gaps, providing food for birds all year around?

Is there a good supply of bugs for insect feeding birds like pīwakawaka (New Zealand fantail)? Could you improve the diversity and abundance of bugs present by building a bug hotel and/or weta motel? https://predatorfreenz.org/toolsresources/school-resources/things-to-do/

Have you seen the brilliant bug hotel at Hollard Gardens and wonderful weta motel at Pukeiti Rainforest?









Ship Rat



Song Thrush













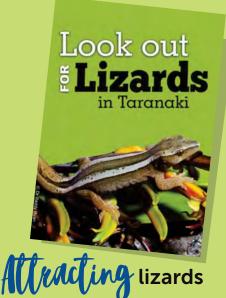


Overview **OBSERVATIONS**

IDENTIFIERS

OBSERVERS

5 Stats



Taranaki, with both the goldstripe gecko and copper skink occurring in urban Taranaki environments. What lizard-friendly plants did you identify in your BioBlitz? Were there any divaricating (many branched) native plants providing safe cover and fruit for lizards e.g. shrubby tororaro (Muehlenbeckia astonii)? Were there any harakeke (common flax) providing shelter and nectar? Could you improve lizard habitat by planting more of these lizard-friendly plants? Could you provide more safe shelter for lizards by building a lizard lounge? Are you trapping to remove invasive lizard predators including rats, weasels and stoats?

There are lots of top tips about how to provide lovely lizard habitat here: https://www.doc.govt.nz/getinvolved/conservation-activities/attractlizards-to-your-garden/

The 'Look out for lizards in Taranaki' leaflet is also a great resource. Get in touch if you'd like a copy (education@trc.govt.nz).



Plants: the good, the bad and the ugly







In the BioBlitz area, which are the goody native plants providing food for native wildlife and which are the baddy pest plants threatening native species? Hatch a plan to remove the baddies (https://www.weedbusters.org.nz/) and plant more goodies.

Towards Predator-Free Taranaki

If you and your school are involved with Towards Predator-Free Taranaki, a BioBlitz can be incorporated into your project as a powerful monitoring tool. Set up predator monitoring as part of your BioBlitz using tracking tunnels, chew cards and wax tags. Which predators are present within the BioBlitz area? What traps can be used to safely remove these pest species?

We can provide monitoring equipment and help you and your students to set up traps.



With all of these examples it's worthwhile running a BioBlitz once or twice a year to monitor progress resulting from the student's actions. It is extremely rewarding to see an increase in native species and decrease in pest plants and animals over time.

For further guidance on how to run a BioBlitz see:

tinyurl.com/trybioblitz



For assistance or information on environmental education contact:

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