Nau mai!

Please use this presentation (click link below) to introduce your students to Tarapuruhi prior to their trip:

Tarapuruhi Presentation for Teachers

The first half covers New Zealand natural history, while the second focuses on Tarapuruhi, Bushy Park.

Please have a look through and decide what is relevant for you and your students.

Use these notes as you go through your chosen slides:

Slide 1	Tarapuruhi title page with bird sounds
SECTION 1: History	
Slide 2	Title page with bird sounds
Slide 3	Ask the question and move to next slide for visual aid to discussion
Slide 4	Discussion prompts:
	-Scientists believe modern humans have been moving around our planet for at least 200,000 years.
	-Our ancient ancestors evolved in Africa, making Europe and Asia some of the next locations we expanded into.
	-Modern humans have been in Australia for approx. 40,000 years.
	-The country we are looking for was first settled in around 800 years ago.
	Once students have shared their thoughts, proceed to next slide for the answer
Slide 5	Answer: Aotearoa, New Zealand
	Discuss: Why do you think it took humans so long to find this place?
Slide 6	<u>Ask the question</u> and discuss before moving on. Short video on next slide with answers.
Slide 7	Watch Video.
	Have the students listen carefully and <u>ask the following questions</u> to hit key points before moving on.
	Q: How long ago did New Zealand break away from the other land masses on earth? A: Approx. 80 million years

	Q: How much of New Zealand was covered in forest and wetlands before human arrival
	A: Everything between the mountains and the sea
	Q: How long ago did humans first find New Zealand? A: Approx. 800 years
	Q: Were there any ground dwelling mammals here 800 years ago? A: No.
	Our only 'land' mammal is a small bat; the pekapeka.
	<u>Discuss</u> with the students what a mammal is. There will always be a few you'll need to convince that animals like sheep and a deer were <u>not</u> here before us!
Slide 8	Allow the bird sounds to play in background and encourage students to use their imagination.
	They are seated in what was probably a dense forest not long ago. A forest roaring with the thunderous sound of thousands of birdcalls, encircling a wetland teeming with life. A family of moa navigates the trees with caution. Only when the Pouākai's (Haast's Eagle) 3m wingspan blocks the sunshine as he hunts for food does the environment become silent and still.
Slide 9	Breakdown of our native species
	Inform students that we are STILL discovering new species. Example: <u>D.O.C: Two new species of lizards found</u> Even at Tarapuruhi there could be species we have yet to identify. Our native bugs and lizards are experts at hiding from birds. In the right habitats, we would never even know they were there.
Slide 10	Ask question and discuss before continuing
	Important note before beginning:
	Preface this section in a way that will allow students to learn without feeling guilt towards their ancestral origins. It is vital to focus this section on the power of humanity rather than individual groups; yes, we can cull a country of its natural resources in a short few hundred years, but that same power can be used to restore and protect (as they will see at Tarapuruhi). People made decisions in the past out of survival and a drive for a better life. Much like we are today. The difference now, is today we have the privilege of knowledge gained over generations, and the drive to do better.

Before European Settlement -Polynesian arrival: Approx. 1250. -Land by Moriori/Māori cleared for hunting, resources, building etc.
Over a timespan of approx. 600 years.
 <u>Modern Day</u> -Land clearing expanded rapidly with European settlement. -People were sold on the life of moving and starting life in farming, forestry, exports, building etc. -We began to fill wetlands (approx. 93% gone across New Zealand) -Many of our forests remaining are now non-native or battling invasive species, we only have about 15% left.
Discuss the question.
Note; It is easy to look back on those who came before us and feel negatively towards their actions. While what was done was not always positive, not everything was done with malice and it's important to consider what we need as a society of people. We may be sad the forests were cleared for farms, but the reality is we need farms in our society. How many is another matter. How can we consider setting up our communities in ways that impact the environment less? There are examples in every community of people implementing initiatives to address this very issue. See "Rewilding" for further learning.
Ask question -When we came to New Zealand, humans were not the only living things that came here. What creatures did we bring?
See how many the students can list before moving onto next slide
Introduced Animals: Around the outside are our introduced animals They were all brought here for a few specific reasons. Can the group work them out? Answers: Rabbit: Reminder of UK/Europe, For Food, For Fur/Fibre/Skin/Bones Ship & Norway Rats: Stowaway (Accident) Kiore Rat: Stowaway (Accident) or For Food Dog (other species): To Work, As Pets Mouse: Stowaway (Accident) Kuri: To Work, As Pets

	Goat: For Food, For Fur/Fibre/Skin/Bones, To Work
	Chamois: For Recreational Hunting
	Deer: For Recreational Hunting
	Hare: For Food, For Recreational Hunting
	Ferret: To Control Rabbits
	Stoat: To Control Babbits
	Wallaby: For Recreational Hunting
	Possum: For Fur/Fibre/Skin/Bones
	Weasel: To Control Babbits
	Hedgebog: Reminder of LK/Europe
	Cow: For Food To Work
	Pig: For Food
	Shaan: For Food
	Cat: As Pets
Slide 17	What's on my Plate?
	Discuss the impact of these introduced animals on our ecosystem.
	What damage do they cause?
Slide 18	Damage by roaming large mammals e.g. Pigs and Deer
	The damage done to the landscape by grazing mammals is not talked about
	as much as our smaller pests/predators, yet they can change the landscape
	drastically. To the point our native creatures cannot find their homes and
	continue to live.
	What damage can the students identify?
Slide 19	Short D.O.C Video on why it is important we act against our introduced
	animals.
	Important to note that we do not do this work because we want to 'kill the
	cute critters'. We understand it is not their fault they were brought here, and
	they are wonderful animals in their original eco systems where they belong.
	We have the unfortunate job of having to choose between our native eco-
	system, and our introduced creatures. And while it is not always nice, the
	choice is a simple one.
Slide 20	Consequences
	<u>Read the question;</u> we will be looking at some extinct bird species on the
	next slide
Slide 21	Why do we not see these birds anymore?
	Moa: Approx. 9 species of moa roamed New Zealand. Perfectly adapted to
	moving through the dense bush using their long legs for stepping over plant

	life, and their sharp beaks for snipping vines. A herbivore that became a main
	food source for numans. They were nunted to extinction within 200 years.
	Haast's Eagle (Pouākai): A fearsome giant eagle who was Aotearoa's most
	dangerous predator. With a 3m wingspan they would have been capable of
	picking up a numan. Their main food source was the moa, when the moa numbers were depleted by humans and the food chain was broken, the
	Pouākai ceased to exist.
	Huia: One of Aotearoa's most treasured Taonga for hundreds of years. Māori
	revered these birds and prized their tail feathers of black with a white tip;
	they were reserved for the highest and most respected people of a tribe, with rabui placed over their collection during breeding seasons
	One of the only species of bird to evolve with different shaped beaks for
	different genders. The female with a long-curved beak, and the male short
	and sharp.
	In 1901, The Duke of York, Heir to the British Infone, visited Actearoa and was gifted a Huja feather in his hat by a Māori wahine. When he returned to
	Britian, a trend began, and by 1906 no Huia was ever seen again.
Slide 22	We ARE learning
	As the impact of our actions became quickly apparent in the early 1900's, a
	shift in the perception of our natural world began to take place.
	A nationwide focus on protecting and looking out for our species began, and it hasn't stopped since. Through ups and downs, our community is filled with
	people who have the desire to help and use their human power for good.
	Takahe: Believed to have gone extinct by the early 1900's it was
	effort to protect and repopulate has been established. While it is a slow
	process, we are making progress with the population now over 500.
	South Island Kōkako: A possibly extinct bird that has a chance of being
	found.
	Still in 2025 we have the chance to rediscover one of our Native Birds.
	Sound from the North Island Kōkako on the next slide
Slide 23	The sound of the North Island Kōkako. The South Island Kōkako could have
	a similar sound. This noise is very unique and should be documented and reported if heard in the South Island.
Slide 24	The Tieke success story
	Inis is a slightly longer video but highlights Tarapuruhi's involvement in saving our endangered species
	In short if you do not have time;

	North Island Tieke numbers reduced to below 500 in the 1970's.
	In 2025 we now have over 7000 across the country, with a population of over
	700 at Tarapuruhi, Bushy Park.
	We CAN save our birds.
Slide 25	Discuss question
	Let students know that Tarapuruhi is a remnant forest. Meaning it was
	NEVER cut or burned down.
	What exists today is the ancient forest, that has been growing for hundreds
	of thousands of years.
	Image of Tarapuruhi on next slide
Slide 26	Image of Tarapuruhi in 2024 to aid discussion
	We see here Tarapuruhi surrounded by the land changed into farms.
	Why did Tarapuruh not become a farm as well?
Sude 27	Extra visual and audio to go in background of discussion
Slide 28	Tarapuruhi Key Players
	The Moore family arrived from Scotland and bought the land at Bushy Park
	in 1865, establishing a horse and cattle farm. Their original intention was to
	clear the forest and expand the farm.
	G. F. Moore (has a street named after him in Springvale Park and attended
	Whanganui Collegiate) was the last remaining member of the Moore Family.
	Ngaa Rauru Kiitahi (One of our local iwi who had lived on this land for
	hundreds of years) came and met with Mr. Moore as they witnessed the
	growing devastation to the landscape. They arrived not with the intention to
	fight, but to communicate, teach, and connect.
	Together they sat underneath Rātānui (The largest and oldest tree in the
	forest, growing since before human arrival).
	Ngaa Rauru sought to introduce Mr. Moore to the taonga surrounding him;
	to show him where they had provided for generations before them, and how
	it had provided for countless creatures for much longer.
	Mr. Moore listened
	From that day on he dedicated himself to protecting what remained of the
	forest until his death in 1962.
	George Francis "Frank" Moore left his homestead and the remaining
	property to Forest & Bird in his will, ensuring it would be protected by future
	generations.

Today, in partnership with Forest and Bird, the Whanganui community
contributes over 500 hours of volunteering every month, continuing the
legacy of protecting our taonga, and restoring what once was.
SECTION 2: Tarapuruhi
Transition Page
Title Page
Tarapuruhi Introduction Video
Image of Tarapuruhi from the air
Discuss the landscape differences seen
Image of Tarapuruni from the air
-This fence is 5km long and surrounds all Tarapuruhi. It is specially designed
to keep out pests and predators.
Images from above and within the forest
Image of the Wotlands
inage of the wettands
Image of paddocks cleared by the Moore family for cows and horses.
The restoration process has begun. In 2024 over 4,500 native plants were
planted, and this is set to continue in 2025.
Tarapuruhi Gates.
<u>Ask the question</u> shown and <u>discuss</u> .
Birds Title Page
J J J J J J J J J J J J J J J J J J J
A selection of native birds found at Tarapuruhi
See how many the students can name in English and Te Beo Māori
Tauhou/Wax eye
Hihi/Stitchbird
Kārearea/NZ Falcon
Korimako/Bellbird
Kōtare/Kingfisher
Pōpokotea/Whitehead
Ruru/Owl
Pipiwnarauroa/Snining-Cuckoo Miromiro/Tomtit
Titinounamu/Bifleman
Riroriro/Grev Warbler

	Pūkeko/Swamp Hen
	Tīeke/Saddleback
	Kererū/Wood Pidgeon
	Pīwakawaka/Fantail
	Toutouwai/Robin
	The next slides will cover 3 endangered birds only found in sanctuaries
	(Tīeke, Hihi, Toutouwai)
	And 3 birds we still see in our backyards (Kererū, Tūī, Pīwakawaka)
Slide 40	<u>Tieke image and sound</u>
	-currently over 700 at Bushy Park
Slide 41	<u>Tieke video from Tarapuruhi</u>
Sude 42	Hini image and sound
	-currently 58 at Bushy Park
Slide 13	Hibi Video from Tarapurubi
01100 40	
Slide 44	Toutouwai image and sound
	-currently over 600 at Bushy Park
Slide 45	Toutouwai videos from Tarapuruhi
Slide 46	<u>Kererū videos from Tarapuruhi</u>
Slide 47	Try count the Kereru!
	Before humans started hunting kereru for food they would hang out in groups
	of up 300. At Tarapuruhi we are starting to see larger groups like the one
	shown, 55 at once is my highest count. This shows our efforts of maintaining
	a pest/predator free environment is working.
Slide 48	The Tui; Image from Tarapuruhi and video from bird rehab centre in
	Northland
	With 2 voice beyon the Tūi is one of the most remarkable mimics in the world
	Refere European arrival. Māari Bangatira would apmatimaa hava a pat Tūj
	before European arrival, Maon Rangatha would sometimes have a pet rul,
	trained to speak in their voice, reciting speeches at pownin and nullof them.
Slide 49	<u>Pīwakawaka Video</u>
Slide 50	Question to discuss before revealing answer on next slide

Slide 51	Importance of Mātauranga Māori
	Before human arrival the animals and plants of Aotearoa had their own balanced relationships with the world around them.
	When we arrived, this world changed; new relationships and understandings were developed.
	Mātauranga Māori (Māori Knowledge) holds many of the secrets of our native world, formed within a culture that spent 800 years observing, utilising, and cultivating what the land had to offer. These unique plants and creatures, never before seen by humans, are what Te Reo Māori was created around.
	Many different names for birds, plants etc. hold knowledge that tell us more about location, gender, size, time of year, weather, behaviour, and still holds many secrets for us to uncover.
Slide 52	Forest Title page
Slide 53	The Cloak of Tane Mahuta
	The Native NZ Forest creates a thick canopy, often blocking direct sunlight. There are rumours that before the removal of the forest, there were parts so dark, nocturnal creatures operated at different hours.
Slide 54	Parts of the Forest
	Everything in New Zealand evolved to find it's perfect place within the
	From the Kārearea holding its place up high, to the Toutouwai foraging only on the ground, everything has its role and place.
Slide 55	Answer: Kawakawa
	More than 200 plants were used by Tohunga as rongoā to heal people from
	When Europeans came, they brought diseases. Tohunga could not cure these new illnesses, so some people lost faith in them.
	In 1907 a law was passed to ban the use of traditional Māori medicine.
	Today there is new interest in many parts of Māori culture – including rongoā. People have turned to these traditional techniques to get help with difficult illnesses.

Slide 56	Answer: All
	Images of Nīkau Palm on next slide if students do not know what tree this is
	Leaves; thatch houses, wrapping food for cooking, clothing, mats Ends of fronds; water container, bowls, sled Food; berries, bulbs behind fronds Medicine; Sap to aid with childbirth (loose ligaments) Hardened berries could be made in jewellery
Slide 57	Nīkau palm image
Slide 58	Horoeka/Lancewood
	An interesting tree that changes its leaf shape as it grows. From long and spikey, to softer and bushy as it gets taller. Scientists think this may have been a protection against the grazing moa. As when the plant is shorter, the leaves are too spikey to eat. Māori would twist and tie a knot in a growing Horoeka, later cutting it to create a tokotoko (staff)
Slide 59	Kareao/Supplejack
	Another plant that may have evolved to protect itself from the moa. While it twists and turns, growing up to 5cm a day, the leaves and berries only grow well above our heads, out of reach for the grazing moa. Māori would make traps and baskets from the vines. The new vine shoots can be eaten, and it holds a lot of moisture in times of dehydration. A medicine can be made from the plant to treat bowel problems, fever, and skin diseases.
Slide 60	Rangiora
	Can be used as a bandage but is toxic if eaten (Time to stress knowledge of plants, and never to consume without a knowledgeable adult identifying) Can be written on like paper Can be used as trail marker as the underside is bright white (much like a silver fern can be used in the same way)
Slide 61	Northen Rātā
	A massive tree that starts from a seed the size of an eyelash. The seed needs to blow in the wind, landing on top of an older, sturdy tree, poking out of the forest canopy.

	This plant then sends down vines from the top, reaching the ground to turn
	into roots. Over hundreds of years the Northern Rātā with twist and turn,
	sending down enough vines to create it's own tree trunk. Eventually taking
	over the host tree.
	You will see many of these in all stages of growth at Tarapuruhi.
Slide 62	Fundi
Silue 02	
	We have almost 6000 types of fungi only found in Aotearoa!
	Keep your eyes peeled, take photos but don't touch!
	What we see above the ground is just small part of the mycelium network
	connected everywhere underground.
	Fungi came before plants, and the more we learn about their "roots" or the
	mycelium network, the more we understand the vital role they play in what
	grows around them.
	Fungi are closer to being an animal than a plant.
Slide 63	Invertebrates and Reptiles!
	We're FULL of them!
	But you won't see them without a keen eye. All the bugs, lizards, frogs etc.
	that live in our forest had to learn how to hide from their biggest predator;
	They have an ent millions of years becoming even with iders, and it is a neivilage
	when you get to witness them
	when you get to withess them.
Slide 64	Spider Webs
	You'll see them EVERYWHERE. But once again, if you're not a fan of spiders,
	don't worry, they're experts at keeping away from your two eyes that remind
	them of the birds.
	Every type of spider creates a unique web fit for their purpose.
	sticky web for establing provide an orb weaver, and a flat non sticky sheet
	made by a sheet-web spider (who is waiting patiently for something to walk
	on the dinner plate she laid outside her front door)
Slide 65	The Wetlands!
	Une of the most misunderstood landscapes on planet earth.
	around planet earth
	In N7 we are pushing over 90%
	In Manawatu, we are at almost 97% gone
	Wetlands are not just a home for countless creatures and a food basket that
	keeps a living food cycle in place;

	They are a Carbon Sink, A Water Filter, A Flood Preventor, and a Drought
	Reprieve
	As we as humans are only beginning to grasp the importance of these
	landscapes, we work to correct some of the damage done.
	The wetlands at Tarapuruhi are a restored landscape.
	Currently it is being monitored for the invertebrate population which is
	naturally occurring. There are currently no fish, but there are frogs.
	To make sure this restored environment can be successful the lower food
	chain must be well established and sustainable.
Slide 66	Example of life found in the water at Tarapuruhi.
	Native water snails, native leeches, native bloodworms (midges), native
	damselfly and dragonfly larvae and more.
	Casuidas en novitalida
Slide 67	Victional life video
Silue 67	
Slide 68	Question: What is our role as people here today?
Slide 69	The Fence
	We maintain the fence. It is our primary form of protection. Without it, pests
	and predators will invade the space and remove progress made.
Slide 70	The Fence
	The full 5km is checked every week by volunteers for holes, damage, animal
	activity etc.
<u></u>	
Slide 71	Iracking and Irapping
	We treak and tran pasts (productors on surrounding properties, synanding the
	safe zone for our pative creatures to explore
Slide 72	Planting
	We have a nursery on site where we look after plants from seed until they are
	ready to go into the ground and become a part of the forest.
	We hope to plant almost 5000 trees this year.
Slide 73	Our community.
	When we come together to protect something we love we inspire others to
	do the same.

	What the Whanganui community has done for Tarapuruhi is a golden
	example to anyone hoping to do similar
Slide 74	Education!
	And that's YOU! Without introducing people to this place, the love for it cannot continue to the next generation. This project is not something one person can achieve in their lifetime. This is a communal effort that education is the backbone of. We cannot love what we don't understand, and we cannot protect that which we don't love.
	Thank you for introducing your students to the wonder of our native world, and thank you for bringing them to visit Tarapuruhi.
	Ngā mihi nui ki a koe
Slide 75	End Title Page