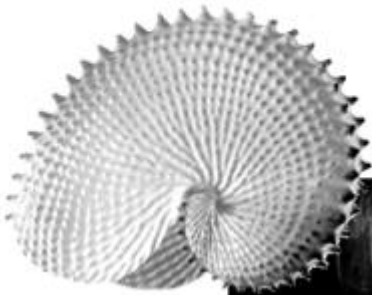


Weird & Wonderful

Early Childhood Education Kit



Auckland Museum





*Weird & Wonderful
Education Kit*

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Early Childhood Education Kit

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How Do You Make a Booking?

Booking before your visit is essential and ensures you have the centre to yourself (depending on the size of your group), or are sharing it with another group of similar age.

Book early. Phone: (09) 306 7040

Suggested time allowance: 1¼ hours

Maximum number in Weird & Wonderful: 60

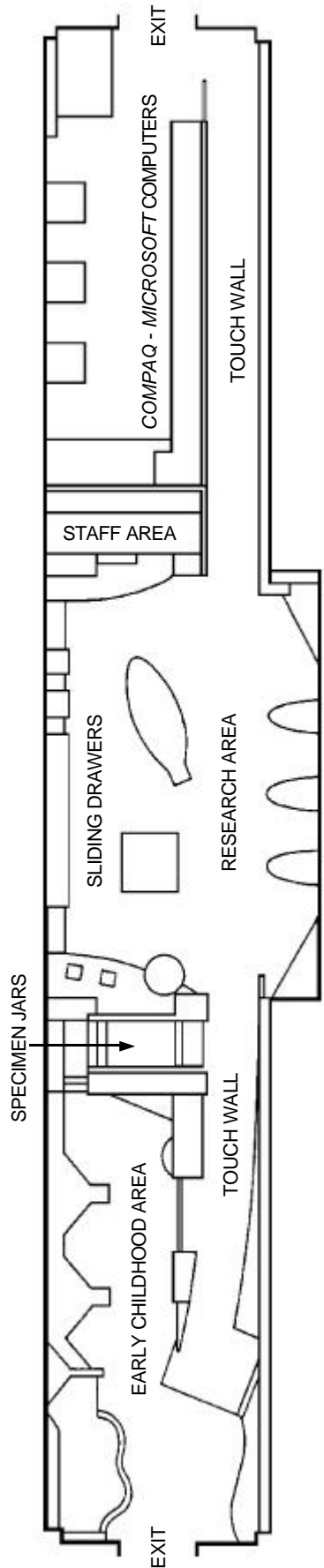
Recommended adult/child ratio: 1:3

We're online. Visit our site at <http://www.akmuseum.org.nz>



The Auckland Museum Education Department acknowledges the advice and support of early childhood educators Diane Sheridan and Hilary Alach in the production of this resource.

Plan Of Weird & Wonderful Discovery Centre



An Introduction to Weird & Wonderful Discovery Centre

The *Weird & Wonderful* Discovery Centre provides an opportunity to explore and investigate the world of science at close quarters. It has been designed especially for infants, toddlers and young children and provides a stimulating 'learning is fun' atmosphere. There is a diverse collection of objects that can be touched, examined or observed at the child's own pace. These self-directed activities incorporate a bi-cultural, bi-lingual approach. Maori names and protocol are used whenever appropriate.

Visiting Early Childhood Centres will have Opportunities to:

Touch

Sensory motor skills are a young child's first method of learning. A variety of specimens including feathers, shells, teeth and rocks are available for handling. Some items (e.g. the elephant tooth) are displayed in perspex boxes with hand-sized holes enabling people to pick the objects up and feel the weight of them without the danger of dropping them.

Look

Closely examine objects, some too small to see with the naked eye, with the video microscope and magnifying glasses.

Investigate

Sliding drawers full of insects, seeds, small animals, nests, shells, rocks, fossils and other items are at easily accessible heights. Children develop concepts by accommodation and assimilation, i.e. they compare something known with novel or new things. They may not be able yet to verbalise these similarities or differences.

Develop Further Understandings

Play the games which have self-correcting devices. A number of kete (kit bags) with 'talk and explore' activities encourage interaction between adults and infants/ young children. The hands-on approach is designed to appeal to very young children who cannot work in abstract terms.

Access Reference Material

Compaq computers with the latest Microsoft software are available for children to find out more and provide entertainment. The programmes include: Encarta (a multimedia encyclopaedia), Dangerous Creatures, Ancient Worlds, Explorapaedia, Dinosaurs, Magic School Bus, Fine Artist and Creative Writer. Micro Easy Ball Mice accompany the computers, enabling small hands easy use. Well-placed pictures and charts encourage discovery and learning.



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Enjoy the Living World

Be amazed at the activity which goes on inside a beehive. The hive is close to a window through which bees come and go. Other insect colonies such as ants, crickets and locusts also provide an interesting focus, illustrating life-cycles and social behaviour. There are two aquariums, one featuring rock pool life and the other fresh water fish. These live collections change and it is wise to check the availability of specific animals prior to coming.

Explore a New Focus

The displays are changed according to school terms, special exhibitions or major news happenings. New ideas and activities are constantly being developed, ensuring interest for repeat visitors. Visit frequently, as you would your local library.

Weird & Wonderful provides a growing, evolving, dynamic environment.



Possible Pre-Visit Activities:

Capitalise on any of the children's nature finds, e.g. cicada skins, spiders, caterpillars etc.

Go on a nature walk. Collect leaves, use them for crayon rubbings and collage.

Rearrange and renew your nature table with objects from the realms of Tangaroa and Tane Mahuta.

Read books about what is interesting to the children in your centre.

Look for appropriate rhymes, e.g. *Little Miss Muffet*, *Incy Wincy Spider*, "One two three, four, five, once I caught a fish alive", *Pungawerewere*, *Purerehua*.

There is a strong correlation between children's early knowledge of nursery rhymes and waiata with fluent/ early reading.

Perform finger plays, e.g. "Here is the beehive.. where are the bees?" "anei te kohanga pi... kei hea nga pi"

Familiarise your children with Nga Atua, particularly Tane Mahuta and Tangaroa.

Before visiting the centre, please read to your children the enclosed book entitled: *Wetasaurus visits Weird & Wonderful.*

Possible Post-Visit Activities:

Recall insect sounds:

- construct a sound session
- make insect sounds with musical instruments or 'found objects'.
- listen to the 'Nature Tape' for summer cicadas.
- listen to Rimsky-Korsakov's 'Flight of the Bumblebee'
- listen to Hirini Melbourne's 'Purerehua'.

OR

Focus on a particular insect, e. g. bees

- smell beeswax
- roll a beeswax candle
- have a honey tasting session
- cook with honey.

OR

Classify insects from other creepy crawlies

- are they large/small?
- do they live in colonies/alone?
- do they live near water?
- do they fly, jump or crawl?
- look at the benefits of insects to humans (how they help in the garden etc.)
- keep and observe a minibeast or ngaarara for a short time
- discuss its needs e.g. food, water and environment.

OR

Collect objects from nature

- sort them into the realms of each atua (god): Tane (forests); Tangaroa (sea); Ruamoko (volcanoes); Haumia (cultivated plants)

- children can make their own classifications.

OR

Grow plants

- cut up a kumara, place it in water, watch for sprouting
- plant seeds and seedlings.

Encourage each child to fill in their own Wetasaurus booklet entitled:

What I did at Weird & Wonderful

A copy is enclosed for duplication.





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Early Childhood Resources Available for Use During Your Visit to Weird & Wonderful

Puzzles

There is an extensive range of animal and plant puzzles (of all sizes) on display. These allow development of sequencing, counting, seriating and matching skills.

Blocks

Large blocks are available for construction and imaginative play.

Sorting Activities

A selection of natural objects are on display for children to sort, seriate and match.

Magnetic and Velcro Activities

Children can sequence life cycles, match heads and tails, and animals with names etc. These resources are many and varied, and concentrate on problem solving skills.

Puppet Theatre

Animal hand puppets allow for creative play and communication of ideas.

Sandpit

The indoor 'archaeological dig site' complete with buckets, spades and other surprises provides endless exploration.

Smelling and Feeling Matching

Activities

These challenge children's senses in unconventional ways! Some activities have instructions provided in Te Reo Maori.

Games

Large board games and self-correcting matching games encourage social interaction and logical thinking.

Threading and Manipulative Activities

Children can create a string of natural objects, use the 'sewing' boards, or tukutuku weaving panel or *Weird and Wonderful* poi to enhance fine motor skills.

Charts and Posters

Large and colourful, these are appropriately placed near actual objects to assist children with the identifying and naming of plants and animals.

Books

A broad selection of animal and plant books in both English and Maori are on display.



Recommended Resources

Outlined is a list of natural science resources, some of which you may wish to purchase for your centre. These will also assist you with your pre- and post-visit preparations. Most of the books listed can be read aloud to children.

We have included publisher's details and places of purchase where known.



Weird & Wonderful RECOMMENDED CASSETTES

NON-VOCAL - RESTFUL

CALL OF THE DOLPHIN

Jeff Clarkson

BUTTERFLY

Jeff Clarkson

INFINITE GRACE

Jeff Clarkson

SEASCAPES

Dan Gibson

FOREST FLOWERS

Kowhai Music Publishing

AVIAN CHOIR

Kowhai Music Publishing

THE NATURE TAPE

Universal Children's Audio

REST TIME/WHAKATA

Universal Children's Audio

MEMORY OF TREES

Enya (Warner Music Ltd)

DEEP FOREST - WORLD MIX

Deep Forest (Sony Music Ltd)

VOCAL

TE TOI API API

Shearwater Associates Ltd

PO Box 54 224 Wellington

TE KU TE WHE

Shearwater Associates Ltd

PO Box 54 224 Wellington

TE AITANGA

Ministry of Education

NGA TAMARIKI ITI

Ministry of Education



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Weird & Wonderful POSTER LIST

MINISTRY OF FORESTRY SERIES

Forestry Insights
PO Box 3400
Auckland

- Peep in the Pine Forest
- Plants & Animals in Plantation Forests
- Forestry Footprints
- Te Wao A Tane
- Te Wairua A Nga Rakau

BIRDS

*Royal Forest & Bird Protection
Society of NZ Inc*
PO Box 631
Wellington

- New Zealand Forest Birds
- The Endangered Kokako
- Black-browed Mollyhawk
- Moa

NEW ZEALAND GEOGRAPHIC

- Story of New Zealand
Dinosaurs & Giant Eagles
- Weta: Giant of the Insect
World
- Common Spiders of House and
Garden
- New Zealand's Forest World
- Penguins
- Tuatara

AUCKLAND REGIONAL COUNCIL

- A Grate Ending
- Naturally Compost – The
Worm Farm

CARTER HOLT HARVEY FORESTS LTD

Phone: (09) 579 2849

- Plants & Animals in Plantation
Forests

WORLD WILDLIFE FEDERATION

PO Box 6237
Wellington

- Panda
- Tiger

DEPARTMENT OF CONSERVATION

- Beaked Whales in New Zealand
Waters
- Common Whales and Dolphins
in New Zealand

YELLOW EYED PENGUIN TRUST

PO Box 5409
Dunedin

- Hoiho – the Yellow-eyed
Penguin

FRANK SCHAFFER PUBLICATIONS (USA)

Available at
MAINLY TOYS
Mt Eden

- How a Chick Hatches



Weird and Wonderful EARLY CHILDHOOD BOOKS: ENGLISH

MARINE

UNDERWATER JOURNEY

Brian & Jillian Cutting

Sunshine Books

THE SEALS

Joy Cowley

Apple

HERMIT CRABS

B Randell

Nelson, Price & Milburn

ANIMALS OF THE ROCKY
SHORE

Peter Garland

Heinemann Education

FISH

Colin Walker

Lands End Publishing

SHARKS

Kevin Boon

Lands End Publishing

WATCHING THE WHALES

Graham Meadows

Lands End Publishing

WHALES

Helen Depree

Lands End Publishing

SHARKS

Jillian Cutting

Apple

AT THE BEACH

Gwenda Turner

Puffin Books

INSECTS & MINI BEASTS

THE VERY HUNGRY

CATERPILLAR

Eric Carle

Hamish Hamilton Ltd

SLUGS & SNAILS

T Jennings

OUP

A WETA HAS SIX LEGS

Andrew Crowe

Longman Paul

HOW LONG IS THE HUUHU?

Ashton Scholastic

THE BAD-TEMPERED LADYBIRD

Eric Carle

Hamish Hamilton Ltd

ANTS

B & J Cutting

Apple

HOW ANTS LIVE

John Sheridan

Sunshine Books

EARTHWORMS ARE ANIMALS

(Concept Science)

Judith Holloway & Clive Harper

Nelson Price Milburn Ltd

INSIDE AN ANTS NEST

C Butterworth

INSECTS AND SPIDERS

RD Press

THE BUG BUS

Judy Gilbert & Adele Graham

Sunshine Books

BUTTERFLIES & MOTHS

Donna Bailey Macmillan

George Ficher Auckland

CICADAS - THE TABLETOP ZOO

D Drew & M Robinson

Ashton Scholastic



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MONARCH BUTTERFLY

Peter Garland
Nelson Price & Milburn

SLUGS & SNAILS

Colin Walker
Lands End Publishing

ANTS

Christine Young
Lands End Publishing

THE EARTHWORM

Helen Depree
End Publishing

THE DAMSEL FLY

Peter Garland
The Highgate Collection

ARE YOU A LADYBIRD?

Brian & Jillian Cutting
Wendy Pye

HAVE YOU EVER FOUND A
BEETLE?

K Murdoch & S Ray
Thomas Nelson Australia

THE INSECT IDEAS BOOK

Margaret Woodhouse
Magari Publishing

ANTS & THEIR NESTS

Christine Butterworth
MacMillan Education

THE LADYBIRD

Peter Garland
Heinemann Education

INSECTS ARE ANIMALS

(Concept Science)
Judith Holloway & Clive Harper
Nelson Price Milburn Ltd

EARTHWORMS AND THEIR
FOOD

Ange Plater
Applecross Ltd

GRASSHOPPER AND THE ANTS

Rita Parkinson
Applecross Ltd

CABBAGE CATERPILLAR

Gavin Bishop
Wendy Pye Ltd

BUZZING FLIES

Joy Cowley
Applecross Ltd

REPTILES & AMPHIBIANS

FROGS

Kevin Boon
Lands End Publishing

SNAKES

Kevin Boon
Lands End Publishing

WHEN THE TUATARA CAME

Andrew Crowe
Longman Paul Ltd

THE FROG

Peter Garland
Heinemann Education

TADPOLES

D Drew & M Robinson
Ashton Scholastic

SPIDERS

SPI DERS ARE SPECI AL

ANIM ALS
F & J Biddulph
Apple

SPI DERS AND THEIR WEBS

F & J Biddulph
Apple

A SPI DER'S WEB

Julie Connal
Lands End Publishing

SPI DERS

Colin Walker
Lands End Publishing



BIRDS

WHOSE EGGS ARE THESE?

Brian & Jillian Cutting

Sunshine Books

I CAN FLY

Joy Cowley

Applecross

ONE LONELY KAKAPO?

S Morris

Hodder & Stoughton

WHERE DOES THE TUI GO?

Andrew Crowe

Longman Paul

A KIWI HAS NO WINGS

Andrew Crowe

Longman Paul

SEAGULL IS CLEVER

B Randall

Nelson, Price Milburn

BIRDS' BEAKS

Diana Noonan

Lands End Publishing

BIRD'S NEST

Diana Noonan

Lands end Publishing

WHAT'S IN THIS EGG?

Jillian Cutting

Applecross Ltd

ANIMALS

ANIMALS TALK TOO

G Meadows

Shortland Publications

ANIMALS & THEIR TEETH

Brian & Jillain Cutting

Apple

HOW DO ANIMALS TALK?

S Mays

Usbourne

FURRY FACT ZEBRA

S Hewetson

Koala Book Co

KANGAROO

J Giggleton

Apple

THINK OF A BEAVER

Karen Wallace

Walker Books Ltd

HELLO CREATURES

P Garland

Shortland Publications

HOW ANIMALS HIDE

Brian Birchall

Lands End Publishing

ALL KINDS OF ANIMALS

Andrew Crowe

Longman Paul Ltd

ANIMAL INVENTIONS

Diana Noonan

Wendy Pye Ltd

ANIMALS AND AIR

Colin Walker

Applecross Ltd

CAMOUFLAGE

Ruth Luhrs

Wendy Pye Ltd

TAILS

Jane Buxton

Wendy Pye Ltd

HUMAN BODY

OUR SKELETON

Martina Cobb

Cobb/Howard Publishing

BROKEN BONES

Brian & Jillian Cutting

Apple



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TOES
W Butland
Apple

OUR EYES
V Robinson
Apple

WONDERFUL EYES
Brian & Jillian Cutting
Apple

WHAT IS THE SKELETON
Brian & Jillian Cutting
Apple

I CAN JUMP
Joy Cowley
Applecross Ltd

THE EARTH

VOLCANOES
Colin Walker
Apple

HOW A VOLCANO IS FORMED
Sandra Iverson
Lands End Publishing

SUMMER
Jillian Cutting
Applecross Ltd

DINOSAURS

DINOSAURS
Brian & Jillian Cutting
Apple

GENERAL

WHO MADE THE TRAIL?
J Parker & C Gasken
Ashton Scholastic

THE MUSEUM
Brian & Jillian Cutting
Apple

DID YOU KNOW?

Brian & Jillian Cutting
Sunshine

WHO LOOKS AFTER ME?
Graham Meadows
Shortland Publications Ltd

NATURE SPEAKS
P Garland
Shortland Publications

WHAT'S THIS?
Judith McKinnon
Shortland Publications

TRACKS IN THE SAND
Anne Goodale
Apple

CRAFTY IDEAS FROM NATURE
Myrna Daitz & Shirley Williams
Exley Publications Ltd

THE SKY & THE EARTH 1
Amanda Jackson
David Bateman

THE SKY & THE EARTH 2
Amanda Jackson
David Bateman

WHICH ONE IS WHICH?
Jan McPherson
Wendy Pye Ltd.

SPIKES
Steve Patrick
Applecross Ltd.

UNDER A MICROSCOPE
Jan McPherson
Wendy Pye Ltd

TRACKS
Karen Anderson
Wendy Pye Ltd

ON THE GROUND
Brian & Jillian Cutting
Applecross Ltd



PLANTS & TREES

SEEDS SEEDS SEEDS

Brian & Jillian Cutting

Apple

INTO SCIENCE - SEEDS

Terry Jennings

Oxford University Press

SEEDS GROW

Colin Walker

Apple

SEEDS

Colin Walker

Apple

TREES ARE SPECIAL

Steve Patrick

Wendy Pye Ltd

THE DANDELION

Brian & Jillian Cutting

Applecross Ltd

THE TREE

Brian & Jillian Cutting

Applecross Ltd

A GARDEN IN YOUR BEDROOM

Henry Anderson & Bill Reinholdt

Pye Anderson Ltd

FICTION

HAI RY MCLARY'S BONE

L Dodd

Mollinson Rendel

HAI RY MCLARY'S SHOW

BUSINESS

L Dodd

Mollinson Rendel

HAI RY MCLARY'S RUMPUS AT
THE VET

L Dodd

Mollinson Rendel

ON THE PROWL WITH

LAWRENCE

Margaret Woodhouse

Magari Publishing

REHUTAI & TANGITANGI

Miriam Smith

Ministry of Education

MONTY GROWS NEW CLOTHES

Margaret Woodhouse

Magari Publishing

THE KUIA AND THE SPIDER

Patricia Grace

Penguin

SID'S DAY OUT

Margaret Woodhouse

Magari Publishing

THE LIGHTHOUSE KEEPER'S
PICNIC

Ronda & David Armitage

Scholastic

THE LIGHTHOUSE KEEPER'S
LUNCH

Ronda & David Armitage

Scholastic

A HOME TO SHARE

Maxine Stephenson

Auckland Institute & Museum





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MAORI

TANE MAHUTA: GOD OF THE FORESTS

NGA NGAHERE: FORESTS

TE NGAHERE

Nga Kupu Whakaahua
Te Reo Publications

HE RITE ETAHI RAU KI OU RINGARI NGA

Andrew Crowe
LongmanPaul Ltd

HE RAKAU RANGATI RA

Dick Grace
Titi Tuhiwai

TE TAHEI A MERERANGI

Mairangi Riddell
Learning Media

KO TIMOTI ME TE POAKA PUI HI

Naha Hopa
Learning Media

NGA MANU: BIRDS

NGA MANU I RUNGA I TE RAKAU

Bill Gillies
Department of Education

PUKEKO I TE ATA

Joy Cowley
Learning Media

PIPI WHARAURO

Henare Everitt
Learning Media

PARERA PARERA

Peti Nohotima
NZ Natural Heritage Foundation

HE MANU RANGATI RA

Dick Grace
Titi Tuhiwai

TE TAKENGA MAI O TE KUMARA KI AOTEAROA

Ethel McPherson
Learning Media

HE UENUKU KEI ROTO I TE NGAHERE

Andrew Crowe
Longman Paul Ltd

NGA NGARARA: INSECTS

E HI A TE ROA O TE TATAKA

Andrew Crowe
Longman Paul Ltd

KI A MAU, KI A U, E PEKE!

Nic Bishop
Learning Media

KAHUKU

Lorraine Tarrant
Learning Media

E ONO NGA WAEWAE O TE WETA

Andrew Crowe
Longman Paul Ltd

AHAKOA HE I TI

P Grace & R Kahukiwa
Longman Paul Ltd

NGA TU AHUA KAREREHE

KATOA
Andrew Crowe
Longman Paul Ltd



TANGAROA: GOD OF THE SEA
HE IKA: FISH

HE KAI MA TE IKA
Henare Everitt
Learning Media

TE HI IKA
Nga Kupu Whakaahua
Te Reo Publications

TE IKA A MAUI
Rewa McConnell
Department of Education

HE PATIKI
Te Whare Whakahirahira

HE KAI MOANA: SHELLFISH

RUKU
Henare Everitt
Learning Media

RAPU KAI MOANA
Nga Kupu Whakaahua
Te Reo Publications

KUA HI KI NA TE RAHUI
Oho Kaa
Learning Media

NGA MANU O TE MOANA:
SEA BIRDS

HAERE AI TE KAWAU KI TE
HOPU IKA
Joy Cowley
Learning Media

TIMO PARATI
Jane Buxton
Learning Media

NGA PIPI A HOIHO
Joy Cowley
Learning Media

TE TAHA MOANA: THE SEA-
SIDE

I TE TAHA MOANA
Henare Everitt
Learning Media

NGA KARAREHE: THE
ANIMALS (domestic, zoo)

E HAERE ANA NGA KARAREHE
KI HEA?
Lili Pakinga
Learning Media

NGA MAKI MAKI
Malika Krishnamurthy
Learning Media

HE KURI
Dick Frizzel
Learning Media

HE HU MO TE HOIHO
Martha Hoani
Learning Media

A MARU RAUA KO PORO
Tom Higgins
Learning Media

HE APORO MA HOIHO
Henare Everitt
Learning Media

WHANAUNGATANGA: FAMILY
RELATIONSHIPS

E HAERE ANA KI WAHO
Caroline Campbell
Learning Media

I AHA KOE
Keri Elvin
Learning Media

E PIRANGI ANA KOE
Jeanette King
Learning Media



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TE WHAKAWHITI I TE RORI

Makere Rogers
Learning Media

TE I KA A MAUI

Rewa McConnell
Learning Media

TANGIHANGA: MAORI FUNERAL AND CUSTOMS

KO MANAWA ME TANA TUPUNA

Phillip Paea
Learning Media

E HAERE MAI ANA NGA MANUHIRI

Jeanette King
Learning Media

HE KAI: FOOD

MA WAI

P Grace & R Kahukiwa
Longman Paul Ltd

TE PARAOA REKA A MERERANGI

Jamie Lean
Learning Media

TE TAKENGA MAI O TE KUMARA KI AOTEAROA

Ethel McPherson
Learning Media

PAKIWAITARA: MYTHS AND LEGENDS

KO MAUI ME TE RA

June Mesler
Department of Education

TE I KA A MAUI

Rewa McConnell
Learning Media

TE TAKENGA MAI O TE KUMARA KI AOTEAROA

Ethel McPherson
Learning Media

TANIWHA: MYTHICAL MONSTERS

TE TAMAITI KOIOIO

Tamikoha Ponika
Learning Media

TE TUNA WATAKIRIHI ME NGA TAMARIKI O TE TIRITI O TOA

Patricia Grace
Penguin Books



