



Me Noho Takatū



For links to all Me Noho Takatū Resources, please go to www.hbemergency.govt.nz and select the 'Education' tab

Kia Takatū / Be prepared

He roa taihoa he tata mate: Be prepared well in advance. Last minute preparations cause panic. Don't leave things to the last minute!

In the event of an emergency, Civil Defence Centres are not set up to cope with large groups of children. One idea is to form a relationship with another service - in the event that one service becomes unusable, there is somewhere appropriate to go. This could lead to an opportunity for a hosted visit by each service, with a whakataua, shared meal and play. Service and individual relationships could be continued as pen pals by letter, or via email or Skype.

Make

- Sew/paint/decorate calico or patchwork bags for sleep times – these are easy to carry in the event of an emergency, if evacuation needs to happen during sleep time.
- As a group or individual activity, map out evacuation routes and identify safe places inside and outside around your service.

Explore

- In an emergency, loss of services, including power could provide a starting point for discussion. How about darkening a corner of the teaching room and using torches, glowing stars or solar lights to practice for an emergency? Sing some songs or tell stories together. Read *Chickens can't see in the dark* by Kristina Litten in the torchlight.
- How do people eat and cook without power? Hold a canned food picnic, using a barbeque or hangi cooker or build a solar cooker?
- Practice your evacuation route

Visit

- Invite Civil Defence staff into the service for discussion.
- Visit a service not in the tsunami zone if you are, or host a centre from a tsunami zone.

He Rū / Earthquake

Aotearoa/New Zealand is located in one of the most seismically active regions of the world. Earthquakes (and other natural events) have shaped our undulating landscape. Generations of Māori experiences of earthquakes have been recorded, in pakiwaitara, waiata, mōteatea, pepeha and whakataukī. More recently the Hawke's Bay earthquake of 1931 and the Christchurch earthquakes of 2010 and 2011 again changed the landscape and had a major impact on many lives. Aotearoa/New Zealand experiences many smaller earthquakes each year, but another large earthquake can occur at any time.

Read

- *Children's Tale* (Appendix 1), by Hone Tūwhare
- *First-hand stories from Christchurch children* (Online resource, see Appendix 3)
- *Quaky Cat*, by Diana Noonan
- *Is that an earthquake?* by Alan Bagnall
- *Earthquack*, by Margie Palatini
- *Kia Kaha the Cathedral Mouse*, by Clare Erasmus
- *Earthquakes*, by Franklyn M. Branley

Investigate

- Earthquake Box. Use a large wooden box, and each child can take a turn standing on it while it is shaken carefully by two kaiako/teachers. First stand up and then practice a turtle drop – how safe do you feel each time? (Wycliffe Ngā Tamariki Kindergarten)

Explore

- Hawke's Bay art deco buildings and discuss the architecture post-1931 – organise an art deco tour or liaise with the Art Deco Trust for activities
- MTG Hawke's Bay museum earthquake exhibition
- Ōtātara Pā – discuss the car-park map which shows the land rising and rivers changing course (DOC)
- Whakamaharatanga Walkway (Bay View) – This walkway crosses farmland, most of which was under water before the 1931 earthquake. There are also two prominent old pā sites and middens (shell heaps).

Sing

- *Rūaumoko* waiata composed by Arohanui Beamsley (Appendix 2)
- *The Earthquake Song* by Jo Cox (Appendix 2)
- *Turtle Safe* by Auckland Council and the Ministry of Civil Defence and Emergency Management (Appendix 2)
- *Rūaumoko* sung by Maisey Rika and Anika Moa (Appendix 4)
- *Rūaumoko haka* by Mohi Turei (Appendix 4)

He Ngaru Taitoko / Tsunami

Tsunami over a metre high reach Aotearoa/New Zealand about 12 times every century (Te Ara), most often triggered by earthquakes and underwater volcanic eruptions. In 1931, after the Hawkes Bay earthquake, there was a moderate tsunami generated, most noticeable at Mahia and Wairoa. Aotearoa/New Zealand's largest documented "tsunami earthquake" was in 1947, in the Gisborne area, where a tsunami 10m higher than sea-level was recorded. (HB CDEM Group)

Read

- *Te Hīkoi a Rūaumoko* by Rawiri Andrews and James Graham
- *Owen and Mzee Best Friends*, by Craig Hatkoff and Dr Paula Kahumbu. Based on a true story about a hippopotamus stranded after the 2004 South-East Asia Tsunami, this board book is suitable for reading to children under 2 years.
- *Tsunami!* by Kimiko Kajikawa and Ed Young
- *The Tsunami Quilt: Grandfather's Story*, by Anthony Fredericks
- *MAMA*, by Jeanette Winter. A true story about a baby hippo who loses his mama during a Tsunami. Suitable for children under 2 years.

Investigate

- Sandpit Tsunami. Experiment with waves in the sandpit or water play by dropping progressively large rocks, shaking a water tray, or moving plates of wood to create a mini tsunami. The evacuation of small people or animals could be introduced to this play.

Explore

- Walk along the coast
- Practice an evacuation inland or to higher ground



Appendix 1

Rotarota/Poem

Children's Tale

Hone Tūwhare

From MIHI: Collected Poems

The taniwha breathes fire and hot stones.

The taniwha snorts hot dust and steam.

Golden snot trickles from its nostrils.

Deep inside the Earth

the taniwha takes deep-breathing

exercises to keep in good shape

for when it has to remind us all

that we are not as powerful as he.

Its name: RU-AU-MOKO.

It is the boss of all the taniwha.

It doesn't give a fart for anyone

or anything. But when it does –

WATCH OUT!

The Earth won't be able to contain itself.

Earth Mother will split her sides with laughing.

Appendix 2

Ngā waiata / Songs

Rūaumoko

I titohia ēnei waiata rotarota e Arohanui Beamsley

Kei te kōpū ō Papatūānuku
e taka hurihuri
e taka porepore
a Rūaumoko e
ka toro ringa
ka whana waewae aaa
Haruru ana te whenua e

Turtle Safe

Auckland Council and the Ministry of Civil Defence and Emergency Management

If the earth begins to shake
What do we do for safety's sake
Get under a table and hold on tight
And everything will be alright

If there aren't any tables or you're outside
We have a different way to hide
Crouch on the ground and cover your head
Just like a turtle tucked up in bed

There'll be no need to cry or yelp
'Cause there's lots of people around to help
But you must practice what to do
Drop, cover and hold and you'll get through

The Earthquake Song

Composed by Jo Cox. To the tune of 'What do you do Tom Farmer'

What do we do when the ground shakes?
What do we do when the ground shakes?
What do we do when the ground shakes?
Stop, Drop and Cover!

Stop, drop, cover your head
Stop, drop, cover your head
Stop, drop, cover your head
That's what we do when the ground shakes.

What do we do when the shaking stops?
What do we do when the shaking stops?
What do we do when the shaking stops?
We all meet at our safe place!

Stop, drop, cover your head
Stop, drop, cover your head
Stop, drop, cover your head
That's what we do when the ground shakes

Mum and Dad, what's our plan?
Mum and Dad what's our plan?
Mum and Dad what's our plan?
When the ground stops shaking?

Stop, drop, cover your head
Stop, drop, cover your head
Stop, drop, cover your head
That's what we do when the ground shakes

What do we do if a big wave comes?
What do we do if a big wave comes?
What do we do if a big wave comes?
We all get up to high ground!

Stop, drop, cover your head
Stop, drop, cover your head
Stop, drop, cover your head
That's what we do when the ground shakes

Appendix 3

Online resources for tamariki

- Te Hīkoi a Rūaumoko online moving video story <http://youtu.be/4SsOOT-kG3A>
- Rūaumoko's Walk online moving video story http://youtu.be/wgYTh_NP8QE
- First-hand stories from Christchurch children <http://whenmyhomeshook.co.nz/2011>
- Turtle safe song <http://www.youtube.com/watch?v=1s6hfbxb0EA>
- Earthquake safety song by Julie Wylie <http://www.youtube.com/watch?v=ak8DWpBatEw>
- Shake Shake Shake by Tom Knight <http://www.youtube.com/watch?v=3NexnQhNAoM>
- Tsunamis: Know What to Do! (animated clip) <http://www.youtube.com/watch?v=UzR0Rt3i4kc>

Appendix 4

Mātauranga Māori resources

Ngā Atua

- Ranginui and Papatūānuku retold in two sections:
http://www.youtube.com/watch?v=XsEAab_Tni4
<http://www.youtube.com/watch?v=yHhMgrAMula>
- Maori creation story told in sand pictures by Marcus Winter:
http://www.youtube.com/watch?v=TDzz_eDq3LE

Rūaumoko

- Waiata sung by Anika Mōa and Maisey Rika:
<http://www.youtube.com/watch?v=yvFD3aLLwZU>
- Rūaumoko haka by Mohi Turei:
<http://www.hakashows.com/free-stuff/haka-words-and-lyrics/ruaumoko-meaning-and-words/>

Moremore

Te Hīkoi a Rūaumoko/Rūaumoko's Walk has a picture of a shark at the start of the story, to depict Moremore, who is Pania's son and a kaitiaki of local people. Pania is a Kahungunu ancestress.

- *Pania of the Reef*, retold by Peter Gossage
- *Pania, the woman from the sea*, retold by Ron Bacon

Ngā Pukapuka

- *Illustrated Māori Myths and Legends*, retold by Queenie Rikihana Hyland
- *Traditional Māori Legends/Ngā Tai Korero*, retold by Warren Pohatu
- *Battle of the Mountains*, retold by Peter Gossage
- *How Maui Slowed the Sun*, retold by Peter Gossage
- *In the Beginning*, retold by Peter Gossage

Appendix 5

Extra resources for kaiako / teachers

- **In Early Education, Volume 49**

Standing together on shaky ground, Sue Stover & Clare McLachlan

Talking about Earthquakes (And Tsunamis): 'Morning circles at Arrowtown Community Preschool'

Annie Cafe & Sara Boles

- **In Australian Journal of Communication, Vol 40, No 1, 2013**

Everyday preschool talk about Christchurch earthquakes, Amanda Bateman, Susan Danby & Justine Howard

<http://eceonline.core-ed.org/resources/view/102672/looking-forward-looking-back-teachers-stories>

- **CORE EDTalks**

<http://edtalks.org/video/looking-forward-looking-back-earthquake-talk-please>

- **Children of the Tsunami BBC**

<http://www.youtube.com/watch?v=7jHuMZ9xyj0>

- **Civil defence Tsunami information for Hawke's Bay**

http://www.cdemhawkesbay.govt.nz/hawkes-bay-civil-defence-emergency-management-group/tsunami_idl=2_idt=496_id=1838_.html

- **Measuring earthquakes**

<http://www.scholastic.com/browse/article.jsp?id=4892>

Post Emergency

After the Canterbury earthquakes there were aftershocks for months – many families were living in tents or garages and there were areas without power. These websites offer a starting point to finding resources for supporting children after an emergency:

<http://skylight.org.nz/Floods+and+Storms+Support>

<http://www.naeyc.org/tyc/article/helping-children-cope-with-disasters>

This learning story is how a centre approached a community disaster with children:

- **Fire at the Marae learning story – Kei tua o te pae**

<http://www.educate.ece.govt.nz/~media/Educate/Files/Reference%20Downloads/ex/ECEBk13/ECEBk13P29to31FireAtTheMarae.pdf>