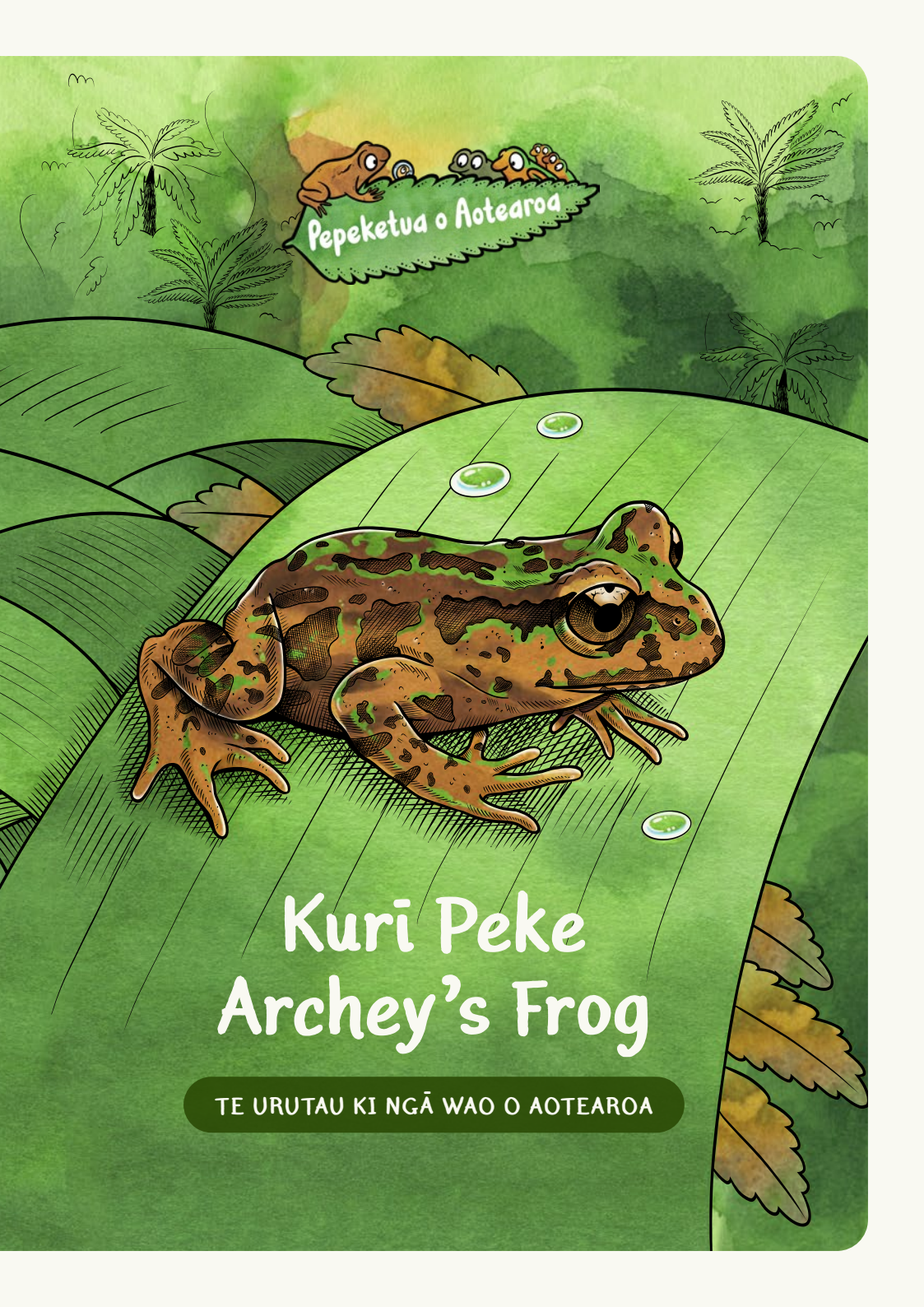




Pepeketua o Aotearoa

Kurī Peke Archey's Frog

TE URUTAU KI NGĀ WAO O AOTEAROA

E hiahia ana te rōpū ohaoha o NZFrogs ki te tautoko i te tangata ahakoa ko wai, nō hea hoki, kia whai wāhi mai ki ngā Pepeketa, me te whai wāhi mai anō hoki ki te manaaki i ngā Pepeketa o Aotearoa.

I te tau 2024, ka riro atu ki a NZFrogs he pūtea tautoko mai i te Unlocking Curious Minds Contestable Fund kia hua mai ko tētahi rārangi pukapuka mātauranga me ētahi atu pānui whakaahua tautoko. Ko te whāinga, ko te whakarite rauemi reo-rua, e pupuri ana ki ngā mātauranga pūtaiao hei kai mā te katoa, ahakoa te pakeke.

E whā ngā pukapuka me ētahi pānui whakaahua tautoko taunaki. Otirā, e rua ngā pānui whakaahua motuhake kei roto i te rārangi pukapuka o Aotearoa: *He aha e hirahira nei ngā Pepeketa o Aotearoa?* Kātahi, ka rua, *Te tiaki Pepeketa*. Kei **nzfrogs.org** ētahi kōrero kē atu mō NZFrogs, mō te rārangi *Pepeketa o Aotearoa* hoki hei tiroiro māu.

Kaipikitia	Sarah Greig
Ngā kaitito	Hadley Muller rāua ko Tobia Dale
Kaiwhakamāori	Te Ngaru Wehi
Tohunga Mātai Ika oneone	Luke Easton
Kaiwhakaahua kararehe	Oscar Thomas
Kaihoahoa whakairoiro	Lucy Arnold

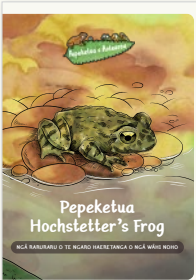
Ka nui hoki te mihi ki ngā iwi e whai ake nei i tā rātou tautoko mai i ēnei rauemi: Ko Pare Hauraki, Ngāti Kuia, Ngāti Koata.

He mea whakaputa e NZFrogs i raro i te mana o Creative Commons Attribution-ShareAlike 4.0 International license.

© NZFrogs 2024.

ISBN 978-1-0670522-4-9

Mōku anō tēnei pukapuka!



Kua tāngia tēnei pukapuka ki te pepa kāore e tāmi i te taiao. I tāngia kētia ki te pepa kua tukuruatia, ā he mea whakamana anō hoki e ngā matatiki whai mana tonu. I whāngatia ki raro i te mana o ngā Pūnaha whakahaerenga taiao ISO14001, otirā, e kawe ana i te tohu e whakamanatia ana puta noa i te ao, arā, ko te tohu tukurua BLUE Angel, Austrian Environmental Label & the NAPM Nordic Swan.



Ngā ihirangi

Ngā āhuatanga o te Pepeketua	2
Te Rangiwhāwhā, te wāhi noho hoki	3
Te oranga i te pō	4
Ngā Kaikonihi	5
Te whakatangatawhenua o te noho ki tuawhenua	6
Te kiri hanga tukunoa	7
Te hurihanga oranga me te tiaki kūao	8
Te whai, me te manaaki uri	9
Te nekeneke haere a te Pepeketua	10
Ngā whakaraeraetanga ki te Kurī Peke	11
Kuputaka	12



NGĀ ĀHUATANGA O TE PEPEKETUA

He Pepeketua **tuawhenua** te Kurī peke, he manaaki i ōna uri, otirā, kāore he wāhanga o tōna oranga e noho ai ia hei kūao i te wai. Tirohia hoki ērā atu kei roto hoki i te whakapaparanga *Ngā Pepeketua o Aotearoa*, ka haere rānei ki **nzfrogs.org** ki te kimi mātauranga anō mō ngā Pepeketua māori o Aotearoa.

Ka mau tonu ki ōna maihara whiu i tōna whiore nō muri atu i te kāhuarautanga

Kāore ōna taringa waenga, ōna tōrino o waho rānei

He nui ngā kau o ōna karu kia pai ai tana kite i te pō



He motuhake ngā tohu me ngā āhuatanga o tōna kiri

E hanga tukunoa ana te kiri kia haumākū tonu, kia whai hā ai te Pepeketua

Kāore ōna huirapa ki waenga i ōna matihoa roroa e māmā ai te pupuri atu ki ngā momo tupu

Kāore ōna pūkoro reo, kāore e taea e te Pepeketua te tangi pērā i ērā atu momo poraka



mm 10 20 30 40 50 60 70 80 90

Inenga kātua RIT (te roa mai i te ihu ki te tou): 25–40mm

Te Rangiwhāwhātanga, te wāhi noho hoki

E noho ana ngā Kurī peke i ngā ngahere hātai i te tahatika o Te Tara-o-te-Ika-a-Māui, otirā, ki roto o Te Rohe Pōtae o Te Ika-a-Māui. Ko ēnei momo poraka, he Pepeketua noho ki **tuawhenua**, arā, he noho ki te whenua mō tana oranga katoa, e huna ana ki roto i ngā **āhurutanga māku**. E kaha ana te tipu o te ururua, o ngā rākau raurapa i ngā ngahere hātai, ka mutu he kaha te heke o te ua hei whakamātao, hei whakahaumākū hoki i te taiao. He raruraru nui te hiainu, nō reira me **urutau** anō te Kurī peke. Ko tētahi tauira o te **urutau**, ko te āhua tonu o te momo, ōna whanonga, me tana whai pānga ki tōna anō taiao kia ora tonu ai ia.

E kaha whaiwhāia ana te Kurī peke e te mate-ā-moatanga, nā te mea e kaha ana te pāitiiti haere o ōna wāhi noho, te mahana haeretanga o te ao, me te haringa mai hoki o ngā momo karaehe ngote ū ki Aotearoa. Mā tō tātou mātau ki tā rātou **urutau**, ka pai ake tā tātou tiaki, manaaki hoki i a rātou, kia ora tonu, haere ake nei.

Te rangiwhāwhā o te
Kurī peke ināiane

Te Tara-o-te-
ika-a-Māui
Whareorino
Pureora

He kiritata tonu te Kurī peke me
te Pepeketua, ā kua kitea ngā
mea e rua e noho ana ki ngā
āhurutanga kotahi!

Te oranga i te pō

E **āhua pōrehu** ana te Pepeketaua. He uaua rawa atu te kimi atu i a ia nā te mea he moeao, he tohunga kirituna, he iti hoki. Otirā, he wahangū; kāore te Pepeketaua mō te tangi, nā te mea kāore ōna pūkoro reo, ōna tōrino rānei.

Ko te moeaotanga i hua mai i te **urutau** o ngā whanonga, nā te mea, e kore e pērā rawa te nui o te hiainu i te pō, nā te mātao. Kua mātua **urutau** o rātou karu nui, te porowhita hoki o ngā kau hei āwhina i ēnei Pepeketaua ki te kimi **tuaiwi-kore** iti hei kai māna.

Ko te āhuetanga o tā te Kurī peke kimi kai, he ‘noho, he tatari noa iho’, otirā, he 99% te nui o te wā ka pau nei i a ia ki te noho tekoteko noa iho! Tērā ētahi wā ruarua nei, ka paku whakarerekē nei ia i te āhua o tana noho, puta noa i te pō katoa.

E taea ana e te Kurī peke te noho tonu i te ao, engari me paku tonu, otirā kua kitea hoki a ia e noho ana i te ao

Ngā Kaikonihi

Nā te **āhua pōrehu** o ngā whanonga o te Kurī peke, e uaua ana ki ngā kaikonihi māori te kimi atu i a rātou, nā te mea hoki e kaha ana tā ngā kaikonihi whakawhirinaki ki ōna karu me ngā taringa. Ko te kiwi, te weka, te tuatara, te rūrū, te whēkau rānei ētahi kaikonihi māori.

Ka eke tonu ngā momo e noho tahi ana i te hauropi kotahi ki tētahi taumata e pai ai te noho a te katoa. Nā te āhua o te noho ki tētahi ngahere kāore nei ōna karaehe ngote ū o tāwahi, i toitū ai ngā taupori Pepeketaua. Engari, ehara i te mea ko te noho **pōrehu** tonu te rautaki pai katoa e huna atu ai ia i ngā kaikonihi ngote ū rāwaho!

He rerekē anō ngā kararehe ngote ū rāwaho (pēnei i te kiore me ngā toriura) i ngā kaikonihi māori nā te mea e kaha hoki ana tā rātou puta i te pō, he kaha hoki tā rātou whakamahi kē i te ihu hei kimi kai. Nō reira, ahakoa pēhea te **pōrehu** o te Kurī peke, e taea tonutia ana e te kaikonihi ngote ū rāwaho! He tino taniwha ngā kainonihi ngote ū ki te oranga tonutanga o ngā Pepeketaua. Otirā, he nui kē atu ngā Pepeketaua e taea ana e ngā puku o ngā kaikonihi ngote ū i te pō kotahi, tēnā i ō te kaikonihi māori.

E taea ana e te Pepeketaua te whakawhiti whakaaro mā ngā tohu matū, engari kāore tonu ngā kaipūtaiao e mōhio ana ki ngā momo tohu.



Te whakatangatawhenua te noho ki tuawhenua



Ka huna atu ngā Kurī peke ki raro rākau kua hinga, ngā toka, ki roto rānei i ngā ururua o te whenua e kohikohi hoki haere nei i te wai i te wā ka heke te ua. E noho ana te Pepeketua ki ngā āhurutanga, nā te mea me māku tonu hoki o rātou kiri e whai hā ai ia. Ka puta mai te Kurī peke i te ahiahipō i tōna āhurutanga. Kei te āhua tonu o te huarere, arā, te kaha rānei o te heke o te ua, te tokomaha, te tokoiti rānei o te Pepeketua ka puta mai i te pō.

He kaha kē tā te Kurī peke hīkoi hei takatakahi haere i te ngahere. Ko ētahi Pepeketua, kua piki rākau, ā kua kitea anō hoki i te kāuru o te ngahere. Ka peke ana te Kurī peke, kāore e taea e ia ōna waewae, ringaringa hoki te tohutohu. Nō reira, ka taka, ka hinga ki raro.

E toru ngā momo poraka kua haria mai i tāwahi ki Aotearoa, ko te katoa nō Aihitereiria, ā he rerekē rawa i te Pepeketua. Ko ēnei momo poraka, he porotītiti ngā tōrino ki muri o ngā taringa. Ko ēnei momo e toru, ka whakaputa hua ki roto tonu i te wai, otirā, ka noho hoki ngā hua hei kūao.

Mehemea kua rongo rānei koe i te poraka e tangi ana i te pō, kua mōhio, he momo i haria mai i Aihitereiria!

PORAKA PARĀONE, NOHO RĀKAU HOKI

RIT o te Kātua: 25–45mm

Cwreereep-reeep-reeep-
eeep-eeep-eeep

Waaaa-waa-wa-wa

Crawcrocro-
crocrok

PORAKA BELL NO TE TAI WHAKA TE-TONGA
RIT o te Kātua: 55–100mm

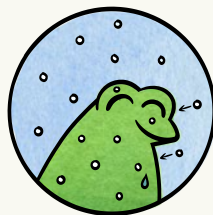
PORAKA BELL KŌURA, KĀKĀRIKI HOKI
RIT o te Kātua: 50–85mm

Te kiri hanga tukunoa

E **hanga tukunoa** ana te kiri o te ika oneone. Ka pai tēnei hei tautoko i te **horapatanga o te hāora** hei tautoko i tana whai hā, me te **rere hoki o te wai** hei whakangata i tana hiawai.

Ko te **horapatanga o te hāora** te tukanga e rere ai ngā rāpoi ngota iti pēnei i te hāora, me te wai i tētahi wāhi e kaha nei te kukūtanga ki tētahi wāhi kāore e kaha ana te kukūtanga, kia taurite rā anō ngā wāhi e rua. He momo motuhake te **rerewai** nō te **horapatanga o te hāora** e whanake ai te wai i te **kiriuhi hanga tukunoa**.

TE RERE O
TE NGOTA
Hāora



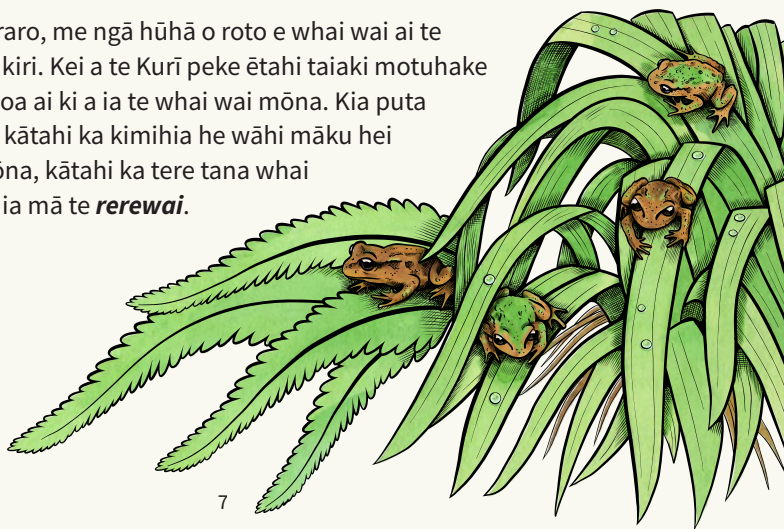
TE RERE O
TE WAI
Wai



Maroke

Mākū

Ko te puku o raro, me ngā hūhā o roto e whai wai ai te poraka mā te kiri. Kei a te Kurī peke ētahi taiaki motuhake nei e māmā noa ai ki a ia te whai wai mōna. Kia puta mai ia i te pō, kātahi ka kimihia he wāhi mākū hei nohoanga mōna, kātahi ka tere tana whai wai ki roto i a ia mā te **rerewai**.



Te hurihanga oranga me te tiaki kūao

He tukanga motuhake te **kāhuarautanga** e kitea ana ki roto i ngā ika oneone i a ia ka puāwai i tōna torongū, i tōna kūaotanga hoki ki te wā e kātua ai ia. Heoi anō, me manaaki te Kuri peke i ōna uri, ka mutu, ka tipu hoki te kikiri ki roto anō i te hua. Kua wāia tā rātou noho ki **tuawhenua**!

Kia roa hoki te oranga o te Kuri peke. Ka 4 tau, kātahi ka eke te kūao ki tōna kātuaatanga, kātahi ia ka tahuri ki te whai uri mōna

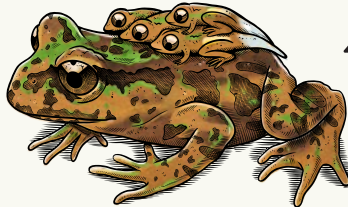


E whakaputa ana te uwaha i ōna hua i ngā āhurutanga māku. Ka haere atu te tourawhi ki te whakahaumako i ngā hua, ka tiakina hoki mō te 2–3 marama kia pao rā anō mai.



Nō muri i te **kāhuarautanga**, he rite rawa atu te kūao ki te kātua. Ko te rerekē, he moroiti noa iho nei te kūao; 1cm noa iho te roa!

Ka noho te Kuri peke ki roto i te hua mō te katoa o te wāhanga torongū, ko tāna kai ko te pūkoro tonu o te hākari!



Nō muri mai i te paotanga mai, ka pikihia e te kūao te tuarā o tōna matua, ka wahangia mō te 1–2 marama kia eke ki tōna **kāhuarautanga**.

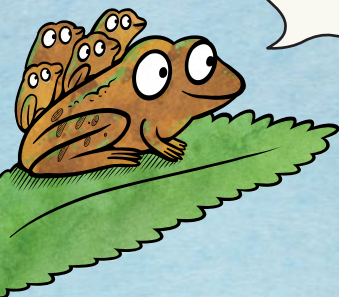
Te whai, me te manaaki uri

Inā whakaritea ki momo kē atu, e roa ana te puāwaitanga mai o ngā taupori Pepeketaua, nā te mea he **momo whiringa-K**. He torutoru noa iho ngā wā ka kimi onioni te Pepeketaua, nā, ka ruarua ake anō hoki ōna uri. He kaha tonu ngā Kurī peke me ngā Pepeketaua (Hamilton's) ki te manaaki i ngā kūao, nō reira ka tere pau hoki te ngoi.

Kua **urutau** ngā **momo whiringa-K** ki ngā taiao tuawhenua pēnei i ngā ngahere hātai. E kaha rarurarungia ana te oranga tonutanga o ngā **momo whiringa-K**. Ka tere pāitiiti te taupori i ngā kaikonihī ngote ū, ngā momo mate, me te ngaro haere o ngā wāhi noho, nō reira ka uaua hoki ki ngā Pepeketaua te whakamōmona anō i te taupori.

Kei te whare kararehe o Tāmaki-Makaurau tētahi rōpū Kurī peke hei arotake ki roto i tētahi taiao e taea ana te tohu e te tangata. E tautoko ana ngā kaimahi o te whare kararehe i te rauoratanga o ngā poraka i te wao. Ko te whare kararehe o Tāmaki-Makaurau anake te wāhi e whakatutuki nei i te rauoratanga o ngā Kurī peke! Engari, e uaua tonu ana te whakaputa, me te whakatipu hoki i ngā torongū me ngā kūao.

Ko tētahi tino wāhi ki te matua
Kurī peke ki te tiaki i ngā hua, ko
roto tonu i ngā ponga wharemoa,
engari e kitea hoki ana tēnei
momo ki raro anō i te ururua, ngā
rākau me ngā toka.

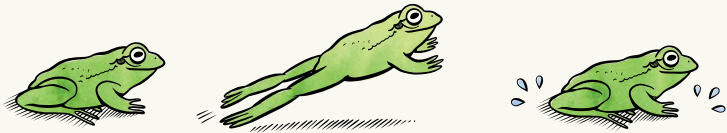


Te nekeneke haere a te Pepeketua

Ehara te Pepeketua i te momo poraka e kitea nuitia ana, he poraka nō **taketake**, arā, nō tua whakarere rā anō, nō reira e rite ana ki ngā Pepeketua i ora ai e hia miriona rau tau nei ki muri. Ko ētahi āhuatanga **taketake** o te Pepeketua, ko te wā e tīmata ai tana nekeneke haere.

Ko tana mariu, ko te hīkoi, tēnā i te peke. Tirohia te rerekē o te Pepeketua me ētahi atu poraka ka ngana ana ki te peke!

Te nuinga o
ngā poraka

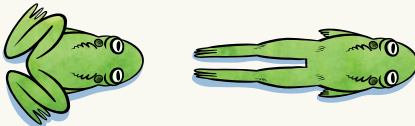


Pepeketua

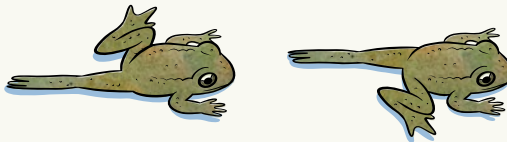


He rerekē hoki tā te Pepeketua kauhoe i tā ērā atu poraka. He ngoikore ake!

Te nuinga o
ngā poraka



Pepeketua



I tūponohia e ngā kaipūtaiao ētahi mātātoka poraka i Ākētina i ora ai e 200 miriona tau ki mua, ā, e rite ake nei te āhua ki te pepeketua!



E rua ngā momo Pepeketua noho ki tuawhenua (Kuri peke me te Pepeketua Hamilton's), kotahi hoki te momo āhua noho ki te wai (Pepeketua Hochstetter)!



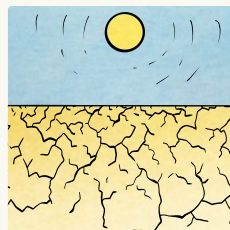
Ngā whakaraerae ki te Kuri peke

He nui ngā urutau a te Kuri peke ki tana noho ki tuawhenua, koinei te take e ora rawa atu ana ia i ngā ngahere māori. Heoi anō, ko ngā raruraru kua ara mai i te tangata, he pēhi kino nei i te oranga tonutanga o te Kuri peke. Mā te mōhio ki te koiora me te hauropi hoki o te Kuri peke, kua mārama ki a tātou me pēhea te tiaki i a rātou.

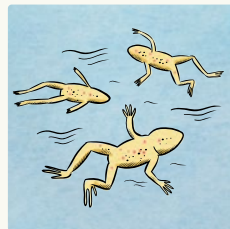
E kaha ana te whakarangia o te Kuri peke e te kaikonihi ngote ū. E ai ki te kōrero, ko te kiore te tino kaitāmi i tōna oranga tonutanga. Ko te tautoko i ngā pūnaha patu kaikonihi i ngā wāhi e noho ai ngā Pepeketua, tētahi huarahi e pai ai tō tahuri mai ki te āwhina.



Ko te mahana haeretanga o te ao tētahi tino taniwha ki ngā momo māori. Ko te piki haeretanga o te mahana, te mimiti haere hoki o te heke o te ua, me te kaha ake hoki o te maroke o te whenua, o ngā haumātakataka rānei. Ko ēnei āhuatanga tonu e whakauaua ana i te noho a te Pepeketua ki ētahi wāhi o ngā ngahere māori.



E whakarangururungia ana ngā Kuri peke e ngā momo mate, inarā ko te Chytridiomycosis (e pēnei ana tōna whakahuatia, kit-trid-di-o-my-co-sis”), he mate nā te chytrid fungus. E pāitiiti haere ai te horapa o te mate, me horoi, me patuero hoki i ngā hū i mua i te haere ki te ngahere, me kaua hoki e tuku haere i ngā poraka rāwaho hei mōkai mā tēnā me tēnā.



E taea hoki ana e te Pepeketua te kai ngā momo patu otaota, nō reira, ka tino māuiui. Me kaua koe e whakamahi patu otaota i tō māra, i tō pāmu rānei mēnā kei reira hoki ngā Pepeketua e noho ana.

E pai ana ki ngā Kuri peke ngā taiao e tau ana ki roto i ngā ngahere hātai ki te whai oranga, ki te whai uri hoki. E ora tonu ai aua Pepeketua, me mātua tiaki e tātou aua ngahere.

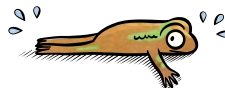


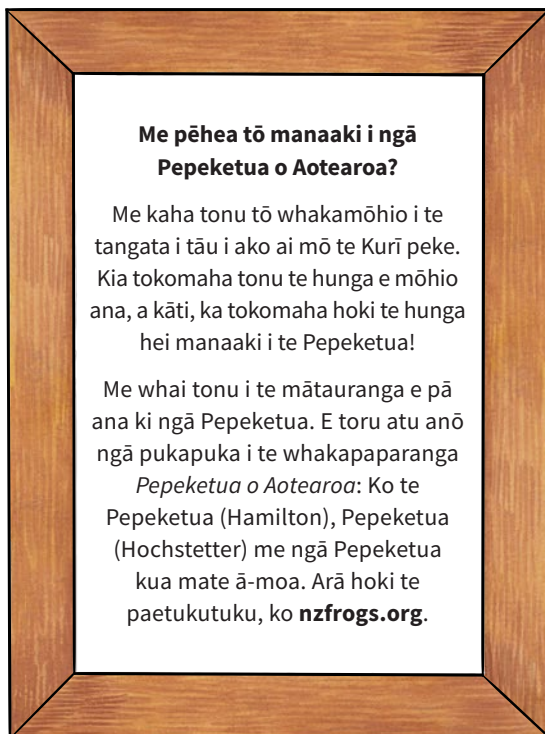
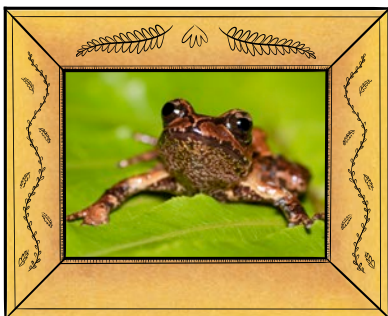
Ko te Kuri peke te poraka rerekē, motuhake katoa i ērā atu momo poraka o te ao, nō reira he taonga whakahīrahira rawa atu!



Kuputaka

Urutaunga (urutau)	He tukanga kuneroa e tangata whenua ake ai te rauropi ki tōna taiao.
Mate Chytridiomycosis (Chytrid fungus)	He mate ā-puruheka kua pā kino nei ki ngā ika oneone huri noa i te ao.
Āhua Pōrehu	E āhua pōrehu ana te rauropi mēnā he āhuetanga ōna, he whanonga rānei ōna hei huna i a ia anō, i āna mahi hoki. Ko te 'cryptic' te kupu Pākehā.
Horapatanga o te hāora	Te nekehanga o te ngota i tētahi wāhi e rahi nei te kukūtanga o te wai ki tētahi wāhi e ngoikore ana te kukūtanga.
Tuaiwi-kore	Ka whakamāramatia te āhua o ngā kararehe kaore ōna tuaiwi.
Momo whiringa-k	He momo ka roa te orange, engari kāore e maha ōna uri.
Kāhuarautanga	Te urutaunga haeretanga o te tinana me ngā whanonga o tētahi kararehe; hei tauira, ko te urutaunga o tētahi totorongū ki tētahi pūrerehua, ko te whanake haeretanga rānei o tētahi kūao ki tētahi kātua.
Rerewai	Te nekehanga o te wai mā te kiriuhi hanga tukunooa ki te wāhanga e kaha nei te kukūtanga o te wai.
Taketake	He whakamāramatanga mō ngā rauropi, ngā huaira e rite ana/e kaha kitea ana i te urutaunga o ngā tīpuna o tētahi momo.
Āhurutanga māku	He wāhi e huna ai te Pepeketua kei whiti ana te rā, kei maroke ana rānei te huarere.
Hanga tukunooa	He kupu pūtaiao motuhake e whakaahua ana i ngā ārai e tuku ana kia whakawhitihia e ētahi o ngā haurehu, e te wai hoki, engari kaua ko te nuinga.
Tuawhenua	He rauropi e noho ana ki tuawhenua.





Me pēhea tō manaaki i ngā Pepeketau o Aotearoa?

Me kaha tonu tō whakamōhio i te tangata i tāu i ako ai mō te Kurī peke. Kia tokomaha tonu te hunga e mōhio ana, a kāti, ka tokomaha hoki te hunga hei manaaki i te Pepeketau!

Me whai tonu i te mātauranga e pā ana ki ngā Pepeketau. E toru atu anō ngā pukapuka i te whakapaparanga *Pepeketau o Aotearoa*: Ko te Pepeketau (Hamilton), Pepeketau (Hochstetter) me ngā Pepeketau kua mate ā-moa. Arā hoki te paetukutuku, ko **nzfrogs.org**.





Ko te Kurī Peke (*Leiopelma archeyi*) tētahi o ngā momo poraka taketake whakamutunga o Aotearoa e ora tonu ana. Ko ēnei poraka paku, motuhake hoki, kua tino tau ki ngā āhuatanga o ngā ngahere, engari, he poraka e whakamōrearea tonutia ana. Whakawhānuitia o mōhiotanga ki te take e whakamōreareatia ana ngā Kurī Peke me tāna urutaunga motuhake ki te noho ki Tuawhenua.

He mea waihanga e te tīma NZFrogs me ētahi tohunga ētahi rauemi hei whakamārama, hei whakaohoo, hei tautoko hoki i te katoa kia tautiakina ngā Pepeketaua!

**CURIOUS
MINDS**

HE HIHIRI I TE MAHARA



ISBN-13: 978-1-0670522-4-9



9 781067 052249