

Te tiaki i ngā hōpuapua

E 425,000 KIROMITA TE ROA O NGĀ AWA ME NGĀ KŌAWA I AOTEAROA HEI TIAKI MĀ TĀTOU. ME MĀTUA MAHI TAHI TĀTOU HEI HAPORI E TUTUKI AI TĒNEI MAHI. E WHAKATŪRIA ANA NGĀ RŌPŪ HŌPUAPUA, HURI I TE MOTU, HEI TIAKI I NGĀ ARAWAI, I NGĀ MAUNGA TAE ATU KI TE MOANA. ME PĀNUI TONU E KITEA AI Ā RATOU MAHI.

Whāingaroa - me whai tangata e whānui ana te titiro, me whai pūtea tika, me whai tangata kaha anō hoki hei whakaora i ngā arawai i roto i te rohe hōpuapua pēnei te whānui.

Te whakamāherehere i ngā panonitanga

Ki te hiahia koe ki te āwhina ki te tiaki, ki te whakapai rānei i te ora o ngā kōawa i roto i tō rohe hōpuapua, anei ētehi mahi hei āwhina.

1. Rangahaua te horopaki

Kōrero ki te hunga kei a rātou ngā kōrero āwhina (e rārangi ana ki te whārangi o muri) e pā ana ki:

- ngā momo ika me ētehi atu koiora (taketake, tauhou hoki) kei roto, i roto rānei i ngā kōawa
- ngā oneone o te rohe hōpuapua, te pānga mai o te waipuke, ngā otaota kua whakatōkia
- ngā whakaahua, ngā pūrongo me ngā mahere o ngā kōawa me ngā hōpuapua o nāiane, o mua hoki
- ngā hōtaka o te wā nei e whakaora ana, e tiaki ana hoki i ngā kōawa
- ngā mahi kua whakaritea mō te hōpuapua
- ngā wāhi kua tāhawahawatia, pērā i ngā maina tawhito, i ngā wāhi whakamaroke kirī kararehe, i ngā rua para, i ngā wāhi toutou hipi rānei
- ngā pūtake e tāhawahawa ai pea ētehi wāhi (ngā wāhi tango para i te wai, ngā ahumahi)
- ngā ture, ngā here rānei e hāngai ana ki ngā mahi i ngā kōawa, pērā i te whakatō otaota ki ngā tahatika me te whakahou kōrere

Te mohoao tere i te wai māori. Nā Peter Hamill, nō te Kaunihera ā-Rohe o Marlborough te whakaahua.

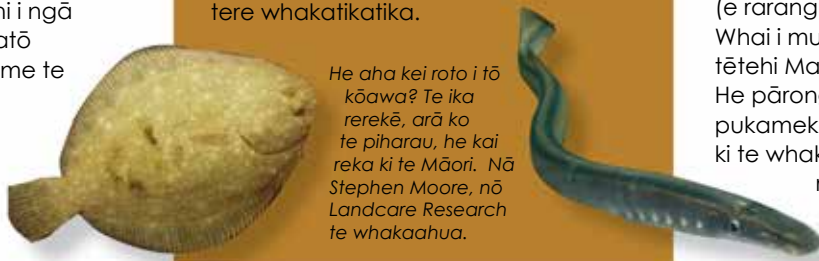
2. Hīkoitia te whenua

Haria he mahere pai, he whakaahua arorangi rānei, ā, hīkoitia te roanga o tō kōawa, haere rānei mā runga waka. Tirohia, whakaahuangia, tohua hoki ngā wāhi me te āhua o ngā:

- puna, o ngā whenua e papī ai te wai me ngā whenua pukewai
- ngā kōrere, ngā matatara, ngā pā (e pai ana aua wāhi hei terenga mō ngā ika?)
- ngā hīrere, ngā tāheke, ngā ārai māori rānei e aukati ana i te terenga o ngā ika
- te horonga o ngā tahatika, te urunga o ngā kararehe, ngā wāhi kāore he marumaru kei ngā tahatika
- ngā kōawa ā-kaupeka
- ngā wāhi e whakaputaina ai pea ngā hua ika
- ngā paiapa me ngā wāhi pea e rukea ai ngā para, pērā i ngā wāhi tango para i te wai, i ngā wāhi ahumahi, i ngā rua para rānei
- ngā wāhi kua kino i te para kei reira te wai kōparu, haunga rānei, te rāpihi, ngā ika mate rānei
- ngā taru whakapōrearea

Kōrerotia ō kitenga ki te Kaunihera ā-Rohe, ā, me wawe tonu te whāki atu i ngā tohu parakino, ngā pūmate, ngā momo koiora whakapōrearea rānei me tere whakatikatika.

He aha kei roto i tō kōawa? Te ika rerekē, arā ko te piharau, he kai reka ki te Māori. Nā Stephen Moore, nō Landcare Research te whakaahua.



3. Me piri tahi

Whakatūria he rōpū manaaki hōpuapua me ō kiritata me ētehi atu tāngata e hiahia ana ki te piri mai, ki te whakatakoto whāinga mō te hōpuapua. Anei pea ētehi whāinga:

- te whakapai ake i te kounga o te wai, e haumarua ake ai ngā mahi pārekareka
- te whakarite whaitua oranga mō ngā koiora rōwai me ngā manu māori
- te whakarākei i te hōpuapua ki ngā otaota māori
- te whakaora i ngā wāhi e whakaputa hua ai te matamata
- te turaki i ngā ārai e aukati ana i te terenga o ngā ika
- te whakaiti i te pānga mai o te waipuke, te ārai, te whakaiti rānei i te horo whenua
- kia auau te aro turuki i te ora o te kōawa
- te whakatū taiapa, te whakaora hoki i ngā whenua pukewai hei tātari i te kenepuru

Whakarārangihia ngā ārai e kore ai e tutuki ō whāinga, ā, kōrero ki ngā tāngata e wātea ana ki te āwhina i a koe kia tutuki ai.

4. Whakaritea he Mahere Mahi

Arā noa atu ngā tāngata i te hapori hei āwhina i a koe ki te rapu rongoā whaihua (e rārangi ana ki te whārangi o muri). Whai i muri ake i tēnā, me whakarite i tētehi Mahere Mahi e tutuki ai ō whāinga. He pārongo matua kei roto i ērā atu pukameka i tēnei huinga puka e pā ana ki te whakapai ake i ngā whaitua oranga mō te ika me te whakatō otaota ki ngā tahatika.



Te horopaki whānui

I mua rā anō, he maha tonu ngā kōawa me ngā awa o Aotearoa i rere mā te ngahere ururua, ā, nā te ngahere i uka ai te one, i maru ai te wai, i taka ai ngā rau me ngā ngārara ki roto i te wai hei kai mā te ika taketake.

I tēnei wā, kua panonitia te takoto o te whenua, ā, e rere ana te nuinga o ngā arawai mā ngā tāone me ngā pāmu. Kua kī ngā kōawa maha i te kenepuru, kua kore i pērā rawa te nui o te maru, kua kī te wai i te whakamōmona, kua pokea hoki e ngā matū tāhawahawa.

Kei roto i ngā rōpū hōpuapua ngā kaipupuri taitara whenua, ē rātou kaitautoko me ngā kaitohutohu, e mahi ana hei painga mō te 'hōpuapua whānui', e rite ai te kōunga o te wai ka rere atu i ē rātou whenua ki tērā o te wā i tae mai ai te wai ki reira. Nā Abby Davidson, nō NZ Landcare Trust te whakaahua.

Me tika ngā tohutohu

Kāore e kore kei ngā hunga kei raro iho nei ngā pārongo mō tō hōpuapua, me pēhea hoki te whakaora ake, ka hiahia rānei rātou ki te āwhina i a koe.

- ngā kaipupuri taitara whenua o te rohe me ngā hunga e noho ana ki reira
- NZ Landcare Trust
- ngā kaunihera ā-rohe, ā-tāone hoki
- ngā mātanga pūtaiao nō NIWA, nō Landcare Research me ngā whare wānanga
- ngā mātanga tapuhi kaiao wai māori motuhake
- ngā kura o te rohe me ngā wāhi whakatupu otaota o te rohe



Tuhia ngā mea e kitea ai

He mea nui te aro turuki! Ka warea noatia koe ki ngā mahi whakaora, ā, ka wareware ki te tū me te arotake i ngā mea kua tutuki, ki te mātaki haere rānei kei tūpono puta mai he raruraru hou.

Tō runga: He tohu pai ngā ngārara rōwai i te kōunga o te wai - he rauemi pai te WaiCare Invertebrate Field Guide e tohua ai ngā momo. Nā Janet McDonald, nō Atlas Communication & Media Ltd te whakaahua mō te Project Twin Streams.

Tō waenga: Me mahi tahi koutou ko ngā mātanga ki te hiahia koe ki te hī ika me te hiko, me hī ika rānei i te pō me te rama. Nā Robin Black, nō Hancock Natural Resource Group te whakaahua.

Tō raro: Me whai taputapu matua hei aro turuki i te purata o te wai, i te mahana, i te hīmoemoe me te kaha kawē iahiko. E wātea ana tētehi kete SHMAK (Stream Health Monitoring Assessment Kit) hei whakamahi māu i te tari o NZ Landcare Trust i Kirikiriroa. Nā Monica Peters, nō NZ Landcare Trust te whakaahua.

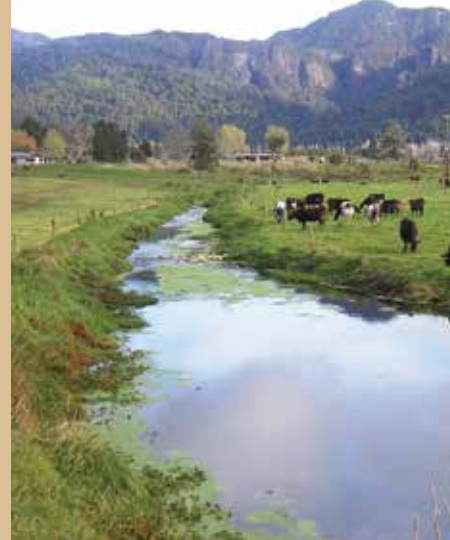
Aorere: he hōpuapua whaiora

Ko tētehi whāinga matua o ngā kaipāmu miraka kau e 33 e noho ana i ngā tahatika o te awa o Aorere i Golden Bay, kia kawa ā rātou kararehe e whakakino i ngā mahi ahumoana i te taha whakararo o tō rātou hōpuapua.

Nā te kaha o ngā hononga o ngā whānau me tō rātou kaha ki te tiaki i te hōpuapua, tae atu ki tō rātou tōngakingaki ki te whai i ngā tikanga whakahaere whaihua katoa i runga i te pāmu, ngā take matua e angitu nei rātou. I te tau 2002, e 28 ōrau te rahi o ngā mātaitai i riro ai, ināianei, kua eke tērā ki te 79 ōrau.

Tirohia te kaupapa o te hōpuapua o Aorere ki: www.landcare.org.nz/regional-focus/upper-south-island/aorere-catchment/

He awa me ngā kau waiū kei te taha. Nā Gretchen Robertson, nō NZ Landcare Trust te whakaahua.



Mā te Reo, Me te Reo, Mō te Reo



Kei te hiahia pārongo anō?

Maori and Integrated Catchment Management
www.arc.govt.nz

Anei ētehi taurira rawe o ētehi kaupapa o roto i te rohe hōpuapua whānui:

Motueka River Integrated Catchment Management Project
www.landcareresearch.co.nz

Whaingaroa Harbourcare
www.harbourcare.co.nz

Lake Omapere Integrated Catchment Management
www.nrc.govt.nz

Waihao River - Wainono Lagoon Management Strategy
www.ecan.govt.nz

Te Reo translation: Pānia Papa, Takatū Associates Ltd.

Ētehi atu pukameka mō te ika i tēnei huinga:

- #1 Ngā ika wai māori
- #2 Ngā mahinga kōawa hei painga mō te ika
- #3 Te whakatika i ngā tapa kōawa
- #4 Te ika taketake i te tāone
- #5 Te ika taketake i te pāmu
- #6 Te tiaki i ngā hōpuapua

Tikina ngā pukameka katoa i: www.landcare.org.nz

He mea whakaputa e NZ Landcare Trust 2015.

NGĀ ROHE HŌPUAPUA E PAI ANA MŌ TE IKA

Ngā tikanga whaihua katoa e ora rawa
atu ai ngā ika taketake

Tiakina ngā hikuwai kua tupuria e te ngahere: whakatūria he taiapa, patua ngā kīrearea, whakaritea he kirimana mehemea kei runga whenua tūmataiti aua hikuwai.

Honoa ngā maunga ki te moana: whakaritea he ara e tere tonu ai ngā ika mā ngā ārai nā te tangata i hanga.

Whakaritea ngā whaitua oranga rerekē ki rō kōawa: he puna, he wai oruru, he wāhi terenga, he wai horomi whenua hoki.

Whakatōkia ngā tahatika ki te otaota: mā konei e tiakina ai ngā kōawa i ngā para kī ana i te whakamōmona me te kenepuru.

Whakatūria he taiapa i ngā arawai me ngā whenua pukewai: hei aukati i te urunga o ngā kararehe.

Whakaritea he kirimana e hāngai ana ki ngā whaitua oranga motuhake, e ukiuki ai te penapenatanga.

Me piri atu, me fimata rānei i tētehi rōpū tiaki kōawa ki te whakaora, ki te tiaki hoki i ngā kōawa.

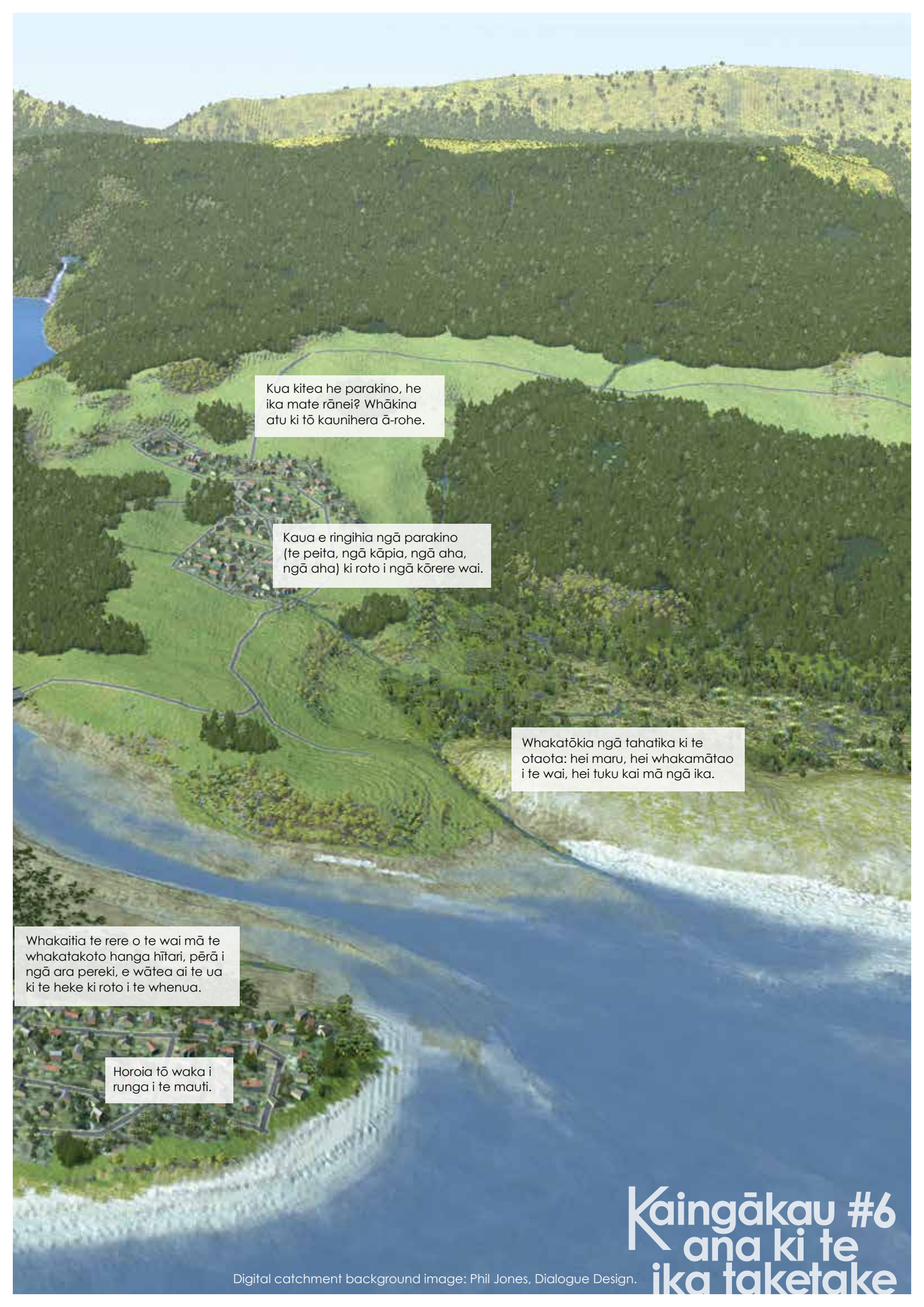
Hangaiā, whakahoutia rānei ngā kōrere hei terenga mō ngā ika.

Whakatūria he pā mehemea ka raru te nui o te wai i ngā manga e pātata ana.

Whakaarohia he āhutatanga pūkaha "ngohengohe" pērā i ngā oru, i ngā māra ua, i ngā whenua pukewai i hangā e te tangata.

Whakatōkia he otaota ki ngā tahatika o ngā kōawa ki te taha moana hei whaitua oranga mō te matamata.

Kaua e tukuna ngā ika me ngā otaota nō ngā kauranga ika, ki roto i ngā kōrere wai.



Kua kitea he parakino, he ika mate rānei? Whākina atu ki tō kaunihera ā-rohe.

Kaua e ringihia ngā parakino (te peita, ngā kāpia, ngā aha, ngā aha) ki roto i ngā kōre wai.

Whakatōkia ngā tahatika ki te otaota: hei maru, hei whakamātao i te wai, hei tuku kai mā ngā ika.

Whakaitia te rere o te wai mā te whakatakoto hanga hītari, pērā i ngā ara pereki, e wātea ai te ua ki te heke ki roto i te whenua.

Horoia tō waka i runga i te mauī.

Kaingākau #6
ana ki te
ika taketake