



Ngā Kaitiaki Haumaru Koiora Wai Māori

Pukapuka Aratohu Kaiako

Nau mai ki 'Ngā Kaitiaki Haumaru Koiora Wai Māori', he rauemi mā ngā ākonga tuakana nō te kura tuatahi, mā ngā ākonga nō te kura waenga, mā ngā ākonga teina rānei nō te kura tuarua. Puta noa i tēnei rauemi, ko tā mātou whai ko te whakarato i tētahi hōparatanga māmā ki te āhei, he mea whakangahau hoki mō te tino kaupapa o te haumaru koiora wai māori.

I Aotearoa, he mea taketake ū mātou pūnaha rauropi wai māori ki tō mātou ora hauropi, ki tō mātou ora ahurea, ā-iwi whānui ake hoki. Kei mua hoki i te aroaro o aua pūnaha ko te piki o ngā mōrea mai i ngā momo urutomo me ētahi atu āhuatanga kōhukihuki taiao. Mā te whai i tēnei rauemi, ka tīmataria e ngā ākonga he haerenga kia mārama ai ki te hiranga o te pupuri i te ora o ū tātou taiao wai māori, ka whakamanahia hoki rātou kia mahia ngā mahi hei tiaki i aua taiao.

Ko tā tēnei rauemi ko te mau o te aro, o te whakaaro me te wairua auaha o te ākonga me te whakatairanga ake i te wā kotahi i te mōhiotanga he aha e whaitake nei te haumaru koiora wai māori. Mā ngā mahi pāhekoheko, mā te ihirangi āhuareka me ngā rangahau whakapūaho tūturu, ka kite ngā ākonga i ngā pānga o ngā momo urutomo pēnei i te Morihana Koi (Koi Carp) mōriiри ki ū tātou nei pūnaha hauropi wai māori. Ka ako rātou ka pēhea ngā mahi takitahi e mahi ai i tētahi panonitanga whai tikanga hei tiaki i ū tātou taiao wai māori puiaki, ka mutu hei te mutunga o te haerenga ka whai rātou i te mōhiotanga, i te kaha hihiri me ngā pūkenga ā-ringa e hiahariatia ana kia pai ai tā rātou āta whai wāhi atu ki ngā mahi haumaru koiora wai māori. Ko tā tēnei rauemi, he tuku i tētahi taputapu whai tikanga, taha wheako hoki mā ngā kaiwhakaako hei whakangako i te akoranga ākonga mā tētahi huarahi e hāngai tonu ana ki ngā wāhi maha o te Te Marautanga o Aotearoa. Kia rite ki te ruku ki roto me te tūhura i te mīharo o te ao haumaru koiora wai māori!

Wāhanga 1 – Te whakataki i te haumaru koiora wai māori NGĀ KIRIATA

Ngā whāinga akoranga

- Me mōhio he aha te haumaru koiora i Aotearoa
- Me mōhio he aha te haumaru koiora

Wāhanga 2 – Rangahau Whakapūaho Morihana Koi NGĀ KIRIATA

Ngā whāinga akoranga

- Me mōhio ki ngā pānga pea o ngā momo urutomo, o ngā kīrearea hoki ki ngā pūnaha hauropi wai māori, ā he aha ngā take he raruraru tēnei
- Whakatewhatewhatia te Morihana Koi hei tauira o tētahi kīrearea wai māori

Wāhanga 3 – Mō te Mahi i te Mahi NGĀ KIRIATA

Ngā whāinga akoranga

- Me mōhio kia pēhea te mahi i te mahi hei tautoko i te haumaru koiora wai māori
- Whakamāramahia mai ka aha ki te tūpono koe ki tētahi momo urutomo e whakapaetia ana
- Tautohua ngā karere matua e pā ana ki te haumaru koiora wai māori, tiria hoki aua mea ki ētahi atu



NGĀ KĀRI MŌREA KĪREAREA, PĀNGA HOKI I

Mōrea:

Ka hinga ngā momo māori i te whakataetae mā ngā rawa

Mōrea:

Te whakakino haere o te kounga wai

Mōrea:

Te whakararu i ngā tikanga ahurea e whakawhirinaki mai ana ki ngā momo māori

Mōrea:

Te uru mai o ngā mate ka pā ki ngā momo māori

Mōrea:

Te whakararu i ngā māwhaiwhai kame

Mōrea:

Te pā atu ki ngā mahi whakangahau (hei tauira ko te hī ika, ko te kauhoe, ko te haere mā runga poti) nā te whakakino i te kounga wai

Mōrea:

Te whai wāhi atu ki te whakakinotanga wāhi noho

Mōrea:

Te whakararu i ngā hononga ā-wairua ki ngā taiao wai māori me te ao tūroa

NGĀ KĀRI MŌREA KĪREAREA, PĀNGA HOKI 2

Mōrea:
**Te pikī o ngā utu
hei whakahaere
kīrearea
patu kīrearea hoki**

Mōrea:
**Te heke iho o te
tāpoitanga nā te
whakakinotanga
o te taiao**

Mōrea:
**He mōrea hauora
mā te hōrapa o
ngā mate, o
pirinoa**

Mōrea:
**Te whakararu i ngā
ratonga pūnaha hauropi e
hāpai ana i te hauora me
te oranga o te tangata (hei
tauira, ko te tātaritanga
wai)**

Me whakamahi ēnei kāri i te taha o
te kiriata e whakaaturia i raro iho:

NGĀ MŌREA KĪREAREA, PĀNGA HOKI

- Me mahi takirua, hei rōpu iti rānei
- Tohatohaina ngā KĀRI MŌREA KĪREAREA, PĀNGA HOKI ki waenga i ngā rōpu
- Kia pau ētahi miniti ruarua hei whakaaro i ngā pātai i raro iho, ka mutu huahuatia te pānga o tō mōrea
- Tohatohaina tō huahua me ū whakautu ki te toenga o te karaehe

He aha te mōrea?

Ko tēhea momo mōrea taua mōrea?

(He mōrea rauropi? Pāpori? Ahurea? Ōhangā? Hauora Tangata?)

He aha te take he māharahara te mōrea nei?

He aha ngā pānga o tēnei mōrea?





PEPA MEKA Morihana Koi

(HEI HAERE TAHİ Kİ TE ATAATA RANGAHAU WHAKAPŪAHO)



Ko te Morihana Koi he ika i taketake mai i Āhia me Ūropi. Kua haria pokanoatia mai ki Aotearoa i ngā tekau tau 1960, ā, mai i taua wā kua huri hei raruraru nui i roto i ūtātou nei wāhi noho wai māori.

Ngā raruraru ka puta i te Morihana Koi:

- Ka kai ana te Morihana Koi, whakamahia ai te māngai hei korekore: e ngongo ake ana i ngā mea katoa kei mua i a ia. Tutū ai te puehu nā tēnei whanonga kai whakararu ki te takere o te arawai, nā reira ka ehu te wai me te aha he uua ki ētahi atu kīrehe te kite, te kimi kai rānei.
- I tua atu o te pōrohe o te whanonga kai a ngā Morihana Koi, ka kai rātou i te huhua o ngā momo kai, tae ana ki ngā pepeke, hua ika, punua ika hoki, me ngā tipu rawa. He kino rawa atu ngā hua o taua kaha hiakai mō ngā momo māori, ka noho toa hoki ngā Morihana Koi mō te taha rawa, ā, ka whakatōhenehene i te hangarite marore o te pūnaha raupri.
- He tino tere te whakaputa uri a ngā Morihana Koi. Nā te ngaringari o aua ika, ka kino kē atu ngā raruraru ka puta i a rātou, me te hua he whānui noa atu te whakamōtī o ngā wāhi noho me te ngaronga o te kanorau koiora i roto i ūtātou nei taiao wai māori puiaki.



He aha ngā mahi ka taea e ūtātou?

Kua whakatūria he wāhi motuhake e kīa nei he Rohe Whakawhāiti, hei whakamātautau kia mutu te tino hōrapa o te Morihana Koi.

Ki te kite koe i ūtātahi Morihana Koi kei waho o aua rohe, tuku pūrongo ki te waea Haumaru Koiora Wai 0800 80 99 66



Waihoki, me maumahara kia Tirohia, Horoi, Whakamaroke!

Ahakoa he māmā noa iho, he huarahi tōtika tēnei hei āwhina ki te tiaki i ūtātou wai i ngā momo urutomo pēnei i te morihana koi. Ahakoa hī ika ai, ahakoa haere mā runga poti ai, ahakoa rānei noho pārekareka noa iho ai koe i te tahataha o te awa, taihoa kia tirohia, kia mātaihia hoki ūtātou me kore e kitea ētahi manuhiri pokanoa. Mukua he paru, he tipu, he parapara rānei, ā, me āta whakarite kia maroke ngā mea katoa i mua i te hūnuku ki ūtātahi wāhi hou.

Mā te whai i aua mahi māmā ka taea e ūtātou te tiaki ūtātou wai me te kaupare i te hōrapa o ngā momo urutomo.

Titoa he whakaari hangareka poto, he whakaaturanga, he waiata, he whakaari rānei e kawea ana te karere matua:

KA KAUHOE ANA, KA HAERE RĀNEI KOE MĀ RUNGA POTI, HE MEA HIRA KIA TIROHIA, KIA HOROI, KIA WHAKAMAROKE!

Āta whakaritea he wāhi ki tēnā ākonga, ki tēnā ākonga. Mā ō koutou hoa ākonga e whakamātautau ki te raparapa i tō koutou karere matua.

Titoa he whakaari hangareka poto, he whakaaturanga, he waiata, he whakaari rānei e kawea ana te karere matua:

HE MEA WHAKAMŌTĪ NGĀ MORIHANA KOI NĀ TE MEA KAI AI RĀTOU I NGĀ MOMO MĀORI ME NGĀ PUNA KAI O AUA MOMO, WHAKAMŌTĪ AI HOKI I NGĀ WĀHI NOHO.

Āta whakaritea he wāhi ki tēnā ākonga, ki tēnā ākonga. Mā ō koutou hoa ākonga e whakamātautau ki te raparapa i tō koutou karere matua.

Titoa he whakaari hangareka poto, he whakaaturanga, he waiata, he whakaari rānei e kawea ana te karere matua:

KI TE KITE KOE I TĒTAHI MOMO KĪREAREA, ME TUKU PŪRONGO KOE KI NGĀ ĀPIHA HAUMARU KOIORA.

Āta whakaritea he wāhi ki tēnā ākonga, ki tēnā ākonga. Mā ō koutou hoa ākonga e whakamātautau ki te raparapa i tō koutou karere matua.

Titoa he whakaari hangareka poto, he whakaaturanga, he waiata, he whakaari rānei e kawea ana te karere matua:

ĀKONA ME PĒHEA TE MŌHIO KI NGĀ MOMO KĪREAREA, KIA TAEA AI E KOE TE MŌHIO KI AUA MOMO KA MAHI AI I TE MAHI.

Āta whakaritea he wāhi ki tēnā ākonga, ki tēnā ākonga. Mā ō koutou hoa ākonga e whakamātautau ki te raparapa i tō koutou karere matua.

Titoa he whakaari hangareka poto, he whakaaturanga, he waiata, he whakaari rānei e kawea ana te karere matua:

HE TAKAHİ Ā-TURE TE HOKO ATU, TE WHAKATUPU, TE ĀTA WHAKAHŌRAPA RĀNEI I NGĀ MOMO KĪREAREA (KA WHAINAHIA PEA KOE KO TE \$100,000 TE WHAINA, KA TUKUNA RĀNEI KOE KI TE WHARE HEREHERE MŌ TE 5 TAU!)

Āta whakaritea he wāhi ki tēnā ākonga, ki tēnā ākonga. Mā ō koutou hoa ākonga e whakamātautau ki te raparapa i tō koutou karere matua.

Titoa he whakaari hangareka poto, he whakaaturanga, he waiata, he whakaari rānei e kawea ana te karere matua:

KI TE KITE KOE I TĒTAHI MOMO KĪREAREA, KA TAEA E KOE TE PŪRONGO MĀ TE WAEA HAUMARU KOIORA.

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Āta whakaritea he wāhi ki tēnā ākonga, ki tēnā ākonga. Mā ō koutou hoa ākonga e whakamātautau ki te raparapa i tō koutou karere matua.

Kei te hiahia koe kia hōhonu rawa te ruku?

Ngā mahi kōwhiringa hei whai

Anei ētahi pātai hei āta whakatewhatewha pea mā ngā ākonga:

Ka pēhea te āhua o tētahi pūnaha hauropi wai māori e ora ana?

He aha ngā momo māori wai māori e tūmanako ana mātou ki te tiaki mā te hāpai atu i te haumaru koiora wai māori?

Ka pēhea te āhua o te haumaru koiora ina tiaki mātou i ētahi atu taiao, pēnei i te ngahere tūturu, i ngā pūnaha hauropi moana rānei?

He aha ngā pānga o te panoni āhuarangi ki ō tātou pūnaha hauropi, ki te haumaru koiora anō hoki?

Kua taea te rauemi mātauranga ‘Ngā Kaitiaki Haumaru Koiora Wai Māori’ nā ngā whai wāhitanga me te tautoko o ērā e whai ake nei:

Maeroa Intermediate School
Place Group
Rotokauri Primary School
Waikato Enviroschools

Te Kaunihera ā-rohe o Waikato
Waikato River Authority
Water of Life Encounters