



Kaupapa
Mīharo

Wero
Wai

Ngohe 3.1: He tūhura i te paru o te wai

Kia tūhuratia te āhua o te whakapai i ngā parakino i te wai.

Whakamahi ai ngā mātanga PŪRAU i ngā taputapu maha kia kitea ai te pai o te wai, ā, me pēhea hoki te whakapai hei inu.

Kia tīmata tō tūhura i te wai mā te whakamātau i ngā huringa ā-nuku, ā-matū hoki i te wai.

Ngā huringa ā-nuku

Whakamātau: Te puehunga wai me te huinga parariki

Kia mahara! Ko te puehunga wai, ko te purata o te wai, ko te kaha rānei o te whiti o te aho i roto i te wai.

Ko te huinga parariki, ko te piringa o ngā korakora ririki, ā, ka puta mai hei huinga rahi ake.

Me whai ēnei:

- He karāhe kōataata (he ipu rānei)
- He wai mā
- He para māori (he paru, he kiri rākau, he pātiti, he rau rākau)
- He tote
- He koko ine
- He rama (ki te hiahiaia)

Hei mahi 1: Te puehunga wai

- Whakakiā tētahi karāhe kōataata ki te wai.
- Tāpiria tētahi koko o te ngā para maori, ka kaurori ai.
- Whakakāngia te rama, tirohia noatia rānei ki te wai mā te titiro ki te karāhe.

Ngā kitenga

Hei mahi 2: Te huinga parariki

- Tāpiria kia 3 ngā koko (1 te kokonui) o te tote ki te wai.
- Kaurorihia mō te 30 hēkona, ka waiho ai.

Ngā kitenga

Whai muri i te 2 meneti:

Whai muri i te 20 meneti:

Ngā huringa matū

Whakamātau: pH

Kia mahara! Ko te pH, ko te ine i te āhua o te waikawa, i te waiwai rānei o tētahi mea, mai i te 0 (he tino waikawa rawa) tae atu ki te 14 (he tino waiwai rawa). I tōna tikanga, ko te 7 te taumata pH o te wai ngū.

Me whai ēnei:

- Kia whā ngā karāhe kōataata e kī ana i te wai:
 - Karāhe wai 1: Tāpiria kia 2 ngā koko ine o te wai rēmana
 - Karāhe wai 2: Tāpiria kia 2 ngā koko ine o te tote
 - Karāhe wai 3: Tāpiria tētahi koko o ngā para māori
 - Karāhe wai 4: He wai māori noa iho
- He pēkena houra
- He ine pH
- He koko ine

Whakamātau 1: Te mātai

Me pēhea tō mōhio ko tēhea o ngā wai te mea paru?
Mā te whai i tāu e kite ai, tuhia ō mātaianga ki te tūtohi.

Whakamātau 2: Te ine i te pH

Mā te whakamahi i ō ine pH, whakamātauria te taumata pH o ia karāhe wai. Tuhia ngā kitenga ki te tūtohi.

Kia tere tō toutou i te ine pH ki roto, ki waho anō i te wai, ā, tuhia tāu e kite ai i taua wā tonu rā kia tika ai ngā kitenga.

Whakamātau 3: Te whakangū i te wai

Me whai koe ki te whakangū i te wai i ia karāhe kia ū te taumata pH ki te 7 mā te tāpiri i te waikawa, i te waiwai rānei ki te wai.

Kia pau te 1 ki te 2 meneti e noho ana, whakamātauria te wai ki ngā ine pH. Tuhia ngā kitenga ki te tūtohi.

Me panoni haere tonu kia ngū rā anō te pH.

Ngā whakamātau	Karāhe wai 1: Wai rēmana	Karāhe wai 2: Tote	Karāhe wai 3: Para māori	Karāhe wai 4: Wai ngū
Whakamātau 1: Ngā mātaianga				
Whakamātau 2: Te pH				
Whakamātau 3: Te whakangū i te wai	Te waikawa/waiwai i tāpiria	Te waikawa/waiwai i tāpiria	Te waikawa/waiwai i tāpiria	Te waikawa/waiwai i tāpiria
	Te pH	Te pH	Te pH	Te pH
	Te waikawa/waiwai i tāpiria	Te waikawa/waiwai i tāpiria	Te waikawa/waiwai i tāpiria	Te waikawa/waiwai i tāpiria
	Te pH	Te pH	Te pH	Te pH
	Te waikawa/waiwai i tāpiria	Te waikawa/waiwai i tāpiria	Te waikawa/waiwai i tāpiria	Te waikawa/waiwai i tāpiria
	Te pH	Te pH	Te pH	Te pH
	Te waikawa/waiwai i tāpiria	Te waikawa/waiwai i tāpiria	Te waikawa/waiwai i tāpiria	Te waikawa/waiwai i tāpiria
	Te pH	Te pH	Te pH	Te pH

Arotakenga

He aha tāu i ako ai i ō raraunga? I pēhea te āwhinatia
ōu e ngā whakamātau ki te tūhura i te paru o te wai?

Whakahokia ngā wai i whakamahia i tēnei ngohe
ki a Ranginui mā te riringi i ngā wai ki ngā pātiti.