

He tuhinga hukihuki

Hangarau Matihiko

Digital Technologies





Mana tārua i tēnei tuhinga
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He Kupu Takamua nā te Minita

Tēnā tātou katoa,

Ko ngā tāngata o Aotearoa kei te noho aianeī ki te porihanga matihiko. Me whai pūkenga, mōhiotanga hoki ā tātou taiohi kia whai wāhi, ā, kia puāwai anō i roto i te ōhanga anamata.

Ko te nuinga o ā tātou taiohi he 'toi matihiko', ina hoki, he ao matihiko te ao i whānau mai ai rātou. Nā reira, kua taunga noa atu rātou ki te rorohiko, te pūrere atamai, te ipurangi, ā, me uaua te whakaaro ki tētahi ao kē atu. Engari, ko te ao matihiko he ao hohoro, he ao hurihuri anō hoki. Me whai te taiohi kia noho rātou ki mua atu i ngā panonitanga, kia mārama tonu ki ngā whakaaro ariā, pūtaiao hoki i muri i ngā hangarau ka whakamahia e rātou, kia whai wāhi atu ai ki te ao matihiko hei kaihanga – kua hei kaiwhakamahi noa iho – o ngā hangarau tino hou.

Me whakariterite anō tātou kia takatū ai rātou kia urutau ki te hangarau me ngā tū momo mahi kāore anō kia kitea – arā, ko te hanga karetao, te whakataruna hinengaro, te hangarau moromoroiti me ngā kōkiri tūhonohono hou e hua mai ai ngā āhuatanga hou i roto i te ao pakihi, ahumahi hoki.

Mā ngā akoranga hou i te Hangarau Matihiko e whakatika i ā tātou taiohi mō tēnei anamata matihiko. Mā te marautanga kounga e taea ai e ngā tamariki ngā taumata o te angitu. Māna e whakapakari i tō rātou māramatanga ki te ao whānui, e whakawhānui hoki i ā rātou wheako i te kura. Māna anō e whakaata ngā hiahia o te ākonga, tōna whānau me te porihanga whānui.

Ko rātou ngā kaiarataki pakihi, ngā kaitoi, ngā kaimahi hauora, te hunga taka kai, ngā kaipūkaha, kaiwhakamahere tāone, kaipāmu, kaiurungi rānei o āpōpō – ā, ko te waihanga me te whakatipu hangarau matihiko tētahi tino whakaritenga e puta ai te ihu. Mā te mārutanga hou e taea ai e ngā ākonga te ako i ngā tumu o te hangarau matihiko me ōna hononga anō ki ērā atu wāhanga ako mai i te Tau 1 ki te Tau 13.

He take nui whakahirahira te whakariterite i ā tātou tamariki kia angitu ai, mai i te tau tautahi i te kura.

Kia pakari te marautanga me pakari anō tōna whakamahinga e ngā kaiako whai pūkenga. Ko tā te marautanga hou he whakatakoto huarahi mā ngā ākonga me tētahi hurihanga whakaongaonga mā te ohu mahi kaiako. He maha ngā kura i Aotearoa nei kua kaha kē te hangarau matihiko i roto i te marau ā-kura, ā, mā ēnei panonitanga e taea ai e rātou te whakapakari i aua marau.

He take nui kia mahi tahi ngā mātua, ngā whānau, ngā Kāhui Ako me ngā kura kia whai wāhi ai rātou ki te whanaketanga o tā tātou marautanga. He take nui anō ō koutou whakaaro kia hāngai ai ngā kōrero me ngā mahi o roto ki ngā hiahia o ā tātou tamariki, taiohi hoki.

Kei te hiamō au ki te tuku i te marautanga hou o te Hangarau Matihiko. Kei te mihi au ki ngā mātanga nā rātou te marautanga nei i hoahoa, i whakahiato, i whakamātau. Ka haere tonu ngā mihi ki ngā kaiako me ngā kaiarataki mō rātou e mahi tahi ai me ngā taiohi kia ora ai tēnei marautanga mō ngā taiohi anō.

Kei te marautanga hou te tikanga kia noho ko ia tonu te ara tere rawa, ara whānui hoki o te ako. Mā te mahi ngātahi ka tau ai te whetūkura, te tino raukura mō ngā taiohi o Aotearoa āianeī, ā, ake tonu atu ki te ao matihiko.

Ngā mihi,

Hon. Nikki Kaye
Minister of Education



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Te ako me te tupu i roto i te ao matihiko



He whenua matihiko a Aotearoa. Kei te whakaumutia e ngā hangarau matihiko tō tātou ao; ō tātou kāinga, kura me ngā wāhi mahi, me te āhua o te mahi ngātahi me ētahi atu.

Ka tika kia hurihia te pūnaha mātauranga mō te whakareri i ngā tamariki, rangatahi ki te toro, ki te waihanga me te tupu i roto i tēnei ao matihiko tere rawa. Mā te whakauru i ngā āhuatanga hangarau matihiko e tautoko ai ki te whakahiato i te māiatanga me ngā pūkenga a ngā ākonga ki te whakamahi i ngā hangarau matihiko, he hanga, he hoahoa hoki i ngā pūnaha matihiko.



E whakahau ana te wāhanga ako hangarau o Te Marautanga o Aotearoa i te hiranga o te whakataunga ā-hoahoa: te whakamahi i ngā rauemi ā-ringa me ngā rauemi ā-hinengaro ki te hoahoa pūnaha, taputapu hoki. Mā ēnei hoahoa e whakawhānui ai i ngā aronga ā-tangata mā te aro ake ki ngā hiahia me ngā ara e taea te kite i ngā hiahia papori ka pupū māi.

Arā noa atu ngā mahi hangarau i tua atu i ngā taumata hoahoa me te hanga taumata hangarau, ko te arotake hoki tērā i ngā hangarau o mua, o nāianei me ērā hangarau mō ngā rā e heke mai ana, me whakaaro hoki ki ngā pānga ki te taiao ki te papori me te ahurea hoki. Ā, koia nei te wā tuatahi e kitea ai e mārama ana te wāhanga ako o ngā mahi hangarau matihiko.

Atu i te tau 2018, ka whakaurua te Hangarau Matihiko ki Te Marautanga o Aotearoa me te *New Zealand Curriculum*, tīmata ai i te Tau 1.

Te whakauru atu

E whakarāpopoto ana tēnei pepa i te whakaurunga o ngā whenu hou o Hangarau Matihiko ki roto i te wāhanga ako Hangarau i roto i Te Marautanga o Aotearoa. Ka whakatōtika tonutia ngā kōrero, ā, puta noa te tau, ā, ka noho hukihuki tonu ngā rauemi o roto.

E whakaata ana tēnei whakahoutanga i te pukumahi o ētahi o ngā mātanga marautanga, ngā mātanga hangarau puta noa i te motu. I reira te hunga mātanga pērā i ngā kaiako, ngā kaiarataki me ngā mātanga o ngā Rōpū Kaupapa Ako. I kitea e ēnei mātanga ngā wāhanga e whakaratoa ai te anga e mārāma ai te whakaatu mai i ngā hangarau kauneketanga i roto i te Hangarau.

Ko tā mātou whāinga kia kounga ngā kōrero o te marautanga nei kia pai ai te whakamahi a ngā kaiako me ngā kura arareo Māori, arareo Pākehā e tutuki pai ai i ngā ākongā taumata ako. Me mātua homai o urupare, e mōhio ai mātou e tōtika ana a mātou mahi. He nui whakaharahara o urupare hei tautoko ake i ngā kaiārahi me ngā kaiako i a rātou e whakauru ana i ngā kōrero o te marautanga hou i roto i ngā Kāhui Ako, me ngā kura. Ka tae ki te wā e whakarato urupare i ngā marama o Hongongoi me Here-turi-kōkā 2017.

Ka taea hoki te urupare i runga i te rangahautanga ipurangi i:
<https://education.govt.nz/hangarau-matihiko-consultation>

Me īmera rānei ki:
digi.tech@education.govt.nz

Me whai whakaaro atu ki ngā pātai e whai ake nei:

Ōrite

- He pēhea rawa e whakaata ai te Wāhanga Ako Hangarau hou i te whakakitenga o Te Marautanga o Aotearoa?

Kōtuitui

- He pēhea rawa te mārāma o ngā hononga i waenga i ngā tuhinga hou kua whakatakotoria me ērā atu wāhanga o te marautanga.
- Me pēhea e whakaata ai e tātou te ako hangarau matihiko i roto tonu i te ingoa o te Wāhanga Ako Hangarau?

Urutau

- He pēhea nei te whaihua o ngā kōrero o roto nei ina whakaaroaro koe ki te whakauru, ki te whakahāngai rānei i ngā tuhinga hou o te Hangarau Matihiko ki tā koutou marau ā-kura?

Mārāma

- Kua noho mārāma anō ki a koe ngā kōrero o roto nei me:
 - te hono o ngā panonitanga katoa, tētahi ki tētahi?
 - te uru pai o ngā panonitanga ki te Wāhanga Ako Hangarau o nāianei??
 - te wāhi ki tēnā, ki tēnā wāhanga o ngā tuhinga marautanga hou?

Pūrangiaho

- Tirohia ngā tuhinga marautanga hou nei. Āe, kāo rānei mā ēnei kōrero hou kua noho mārāma ki a koe:
 - tā te ākongā kauneke i roto i te Hangarau Matihiko
 - tā te ākongā kauneke i roto i te Hoahoa me te Hanga Otinga Matihiko
 - te ara o te ako, atu i te Tau 1 ki te Tau 13
 - te ara mā ngā taumata NCEA, arā 1, 2 me 3

Anga Whakamua

- He pēhea nei tō whakaae mā ngā panonitanga nei e whiwhi ai ngā ākongā i ngā pūkenga, ngā mōhioitanga me ngā āheinga e tika ana kia whai wāhi rawa rātou ki te rautau 21, ā, ki tua atu hoki?
- He pēhea nei tō whakaae mā te whakamaunga me te ahunga o ngā panonitanga e kitea ai he hua pai ki te ākongā mō te whakaaro rorohiko; te whakamahi reo, tohu, tuhinga hoki, me te whai wāhi, whai koha hoki ki ngā hapori anamata?

Te whakamahi i te marautanga hou

- Ki a koe, he aha te mea nui mō te whakaako me te whakauru i te marautanga Hangarau Matihiko | Digital Technologies ki roto i tō hōtaka whakaako?
- He aha ngā tautokotanga ka hiahia rānei koe ki te whakapakari ake i ō mahinga whakaako mō te wāhanga Ako Hangarau?

Ngā panonitanga o te Wāhanga Ako Hangarau

I hangaia tuatahitia te Wāhanga Ako Hangarau me ōna aho e rima. (2008)

- Hangarau Koiora
- Te Tuku Mōhiohio
- Ngā Hanga me ngā Pūhanga Manawa
- Te Tāhiko me te Hangarau Whakatina
- Hangarau Kai

Nā te whakaurutanga o Hangarau Matihiko (2017) i whakatau ai te rōpū tohutohu kia tāmaua Te Tuku Mōhiohio ki roto ki te aho hou – Hangarau Matihiko.

Nā reira, i hora ai he pōkare, ā, ka pā ki te wāhanga ako o Hangarau. Nā, ka tāraitia anōtia te Iho, Te Whaitake o te Ako i te Hangarau, Te Hanga o tēnei Wāhanga Ako, Ngā Āhuetanga o te Hangarau me Te Whakaharatau Hangarau kia kitea a Hangarau Matihiko me te aha, he hononga whakapapa tōna ki te ihu o te wāhanga ako.

Ka whakaaturia ēnei panonitanga i raro nei:

TE WĀHANGA AKO HANGARAU MOHOA	TE WĀHANGA AKO HANGARAU HOU
Iho	I whakahoungia kia whai wāhi mai a Hangarau Matihiko
Te Whaitake o te Ako i te Hangarau	I whakahoungia kia whai wāhi mai a Hangarau Matihiko
Te Hanga o tēnei Wāhanga Ako	I whakahoungia kia whai wāhi mai a Hangarau Matihiko
Ngā Āhuetanga o te Hangarau	Ka noho pērā tonu
Te Whakaharatau Hangarau	Ka noho pērā tonu
Hangarau Koiora	Ka noho pērā tonu
Te Tuku Mōhiohio	I whakahoungia kia tāmaua ki roto ki te Hangarau Matihiko Ararua <ul style="list-style-type: none">• Te Whakaaro Rorohiko• Te Hoahoa me te Hanga Otinga Matihiko Arareo Māori anake <ul style="list-style-type: none">• Ngā Ariā o te Hangarau Matihiko Arareo Māori• Te Tangata me te Rorohiko
Ngā Hanga me ngā Pūhanga Manawa	Ka noho pērā tonu
Te Tāhiko me te Hangarau Whakatina	Ka noho pērā tonu
Hangarau Kai	Ka noho pērā tonu

Ngā Taumata Mātauranga

Ka whakaatu ngā Taumata Mātauranga i te āhua o te ākongā me ngā akoranga ka oti i a ia hei te mutunga o te ngā tau 10 me 13 mō *Te Whakaaro Rorohiko* mō *Te Hangarau Matihiko* me te Hoahoa me te Hanga Otinga Matihiko. Ka nanao ēnei atu ki ngā whakatupuranga me ngā ākoranga o roto, ā, ka tautohu hoki i ngā pūkenga, te mōhiotanga me ngā waiaro o te ākaonga matihiko matatau.

Te tauākī wāhanga ako

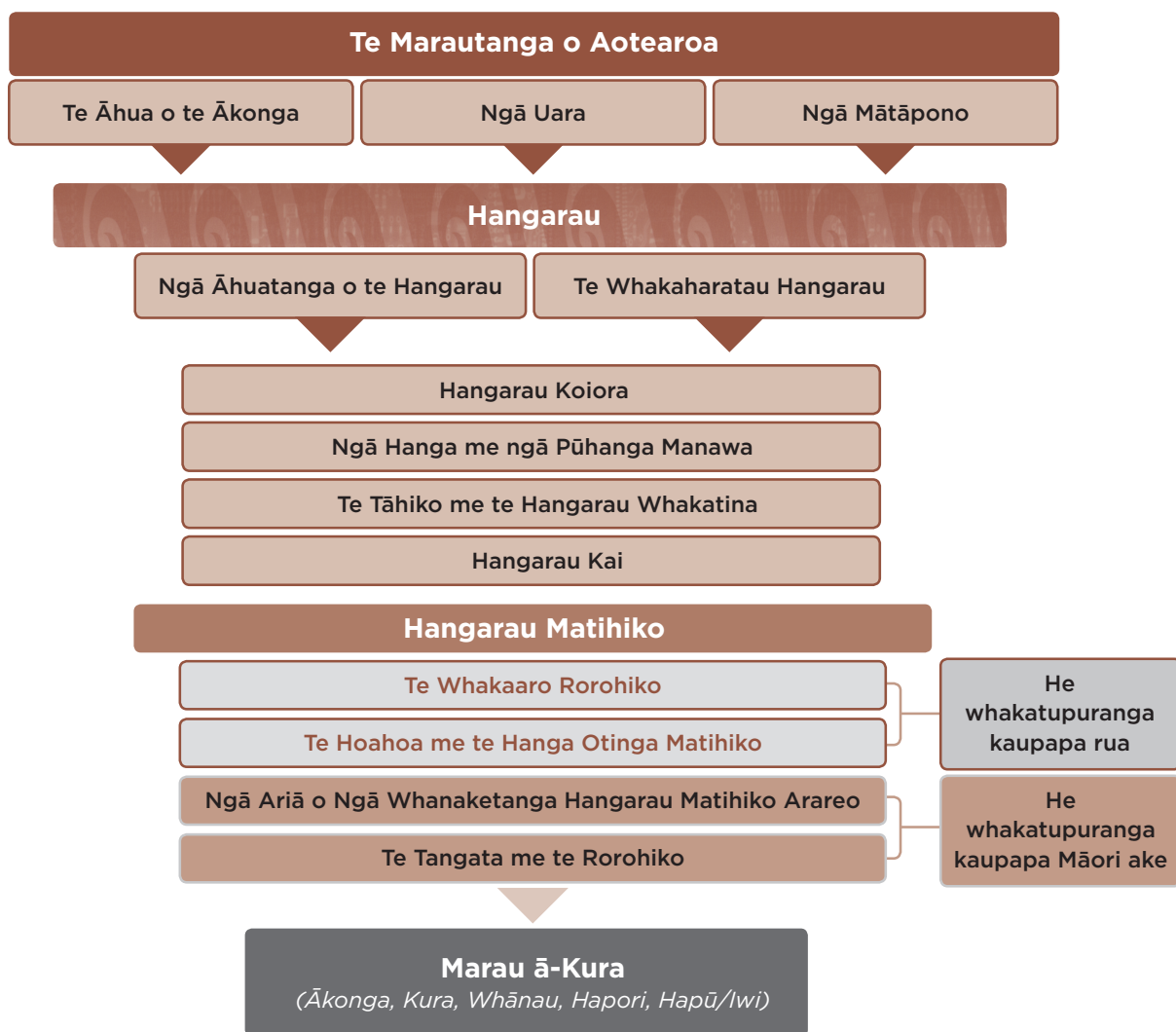
Ka whakaahua te Tauākī Wāhanga Ako o Hangarau i te tino pūtake o te ako Hangarau, me te āta whakahoki i ngā pātai he aha e ako ai i te hangarau, ā, he aha tōna tikanga?

Kua whakahoungia tēnei kia āta whakamārama i ngā hiahia mō te ako i te Hangarau Matihiko, mai i te tīmatanga i te kura tae atu ki te mutunga o te Tau 10.

Ka maheretia ngā mahi akoako hangarau matihiko ki tētahi kohinga otinga kauneke. He mārama, he kōrero motumotu mō ngā raupapatanga mahi e kauneke ai te ākongā. He huarahi hou tēnei mō ngā kura arareo Māori.

E whakaatu ana hoki ngā otinga kauneke, ko ngā piki me ngā heke ērā, ahakoa te taumata marautanga, ahakoa te taumata ā-tau hoki. I tēnei wā ko te tikanga ka puta ngā otinga kauneke mō ngā wāhanga ako hangarau pērā i *Te Whakaaro Rorohiko* mo te *Hangarau Matihiko* (ngā hātepe, te raupapa tonu me te whakaatu raraunga), me te *Hoahoa* me te *Hanga Otinga Matihiko* (papatono me ngā pūnaha matihiko), *Ngā Ariā* o te *Hangarau Matihiko Arareo Māori* me te *Tangata* me te *Rorohiko*.

Mēnā ka tiro ake tātou ki ngā mahi papatono (i te wāhanga hangarau o *Te Whakaaro Rorohiko* mō te *Hangarau Matihiko*), ka kitea pea e tātou ka pēhea te ako a te ākongā mai i te papatono i ētahi tohutohu māmā noa, ki te taiao rorohiko kore (hei tauira, te āta raupapa i ngā tohutohu), te hoahoa pūmanawa rorohiko, te papatono rānei i tahi rorohiko. Ka kitea hoki te kōkiringa whakamua a ngā ākongā mō ia o ngā whakatupuranga. Ka tautokohia ngā whakatupuranga ki ētahi tūmahi whakaako, akoako tino kōunga, hei rau ki ngā hōtaka akomanga.



He tuhinga hukihuki

1. Te Tauākī Hou mō te Wahanga Ako Hangarau



He tuhinga hukihuki

Te Iho

Ko te iho o te hangarau kei te waiata nei. Mai i Ngā Āhuatanga o te Hangarau me Te Whakaharatau Hangarau a ō tātou tūpuna tae noa ki ngā tukanga o te ao hurihuri, i whakatakotohia e ō tātou tūpuna he huarahi hei whāinga mā tātou.

*Tīkina atu i tuawhakarere
i te ao kōhatu
ngā mōhiotanga o rātou mā
hei kawē i a tātou i roto i te ao tūroa.
Kua takoto kē te whāriki i rarangahia e rātou
wānangahia, tuakina kia tau
rangahaua kia maumahara
manakohia kia whiwhi ai
te mātauranga Māori motuhake.*

Te Whaitake o te Ako i te Hangarau

Me whaitake ngā kaupapa hangarau kia kore ai e whāia mō te kore noa iho.

Mā te hangarau ka tū rangatira ngā ākonga. Hei whakahiato i ngā mōhiotanga hangarau, ka tīmata i te ao Māori me tōna hāngai ki te ao hurihuri. Me aro anō ki ngā uara, ngā pūkenga, me ngā mōhiotanga hangarau o te ao e taunga ana ia.

E rua ngā whenu, ko Ngā Āhuatanga Matua o te Hangarau me Te Whakaharatau Hangarau.

Kātahi ka taka mai ki ngā aho hangarau e ono. Ko te Hangarau Kai, ko te Hangarau Koiroa, ko Ngā Hanga me ngā Pūhanga Manawa, ko Te Tuku Mōhiohio, ko Te Tāhiko me te Hangarau Whakatina, ko te Hangarau Matihiko hoki.

E tika ana kia tūhuratia ngā āhuatanga o ngā momo rawa kei ia kaupapa hangarau. Ā, he wāhi anō mō te āta whakaaro ki te taha tukanga me te taha whakanao. Kei roto aua wāhanga i te mahere hoahoa a te ākonga.

He rerekē ngā mōhiotanga kei ia whenu. Me hono ngā whenu e rua ki ngā aho kua kōwhiritia hei tūāpapa mō te mahi hangarau.

Mai i te kaupapa whānui ka taka iho ngā aho hei āwhina. Tērā pea e rua, e toru rānei ngā aho e hāngai ana. Ka pāhekohekotia a Hangarau Matihiko ki ngā aho, me ngā kaupapa ako katoa.

Me hāngai te aromatawai ki ngā whāinga kei ngā whenu.

Kia kauria e te ākonga te au moana o te hangarau. Ka ea tēnā mā te pakirehua, te whakawhiti kōrero, te raweke, me te whakamātau kia mau tonu, kia whakahāngai, kia whakahou tonutia ā muri atu.

I te nuinga o ngā whakatupuranga hangarau, ka whakatūria ngā haporī mahi mai i te tīmatanga o ngā mahi hoahoa tae noa atu ki te mutunga, ā, ki tua atu. E tino whaitake ana ēnei tū haporī ki te whakawhakatupuranga, ki te whakatinanatanga hoki o ngā rongoā, me ngā kōkiri hangarau hou.

Te Hoahoa Whakaaro

He huarahi rapu otinga tēnei, e rima ōna wāhanga matua.

1. Te ngākaunui – ki te tangata me ōna whakaaro, ōna kare ā-roto hoki me te mōhio ki te kaiwhakamahi me ōna matea.
2. Te tautuhi – i ngā take matua me ngā huarahi wātea.
3. Te taka whakaaro – waihanga ariā, rapu otinga/ rongoā hoki.
4. Te tauira taketake – hangaia he tauira taketake.
5. Te whakamātau – whakamātauria te tauira taketake, ā, panonihia kia hāngai.

E tino waiwai ana te hoahoatanga whakaaro i ngā kōkiritanga hangarau katoa ka whāia e ngā ākonga.

Ngā Aho

Ngā Āhuatanga o te Hangarau

Ka whakaahuatia te whakaharatau hangarau e:

- ngā tāngata me ō rātou āhuatanga katoa;
- ngā hiahia me ngā huarahi wātea o te ao whānui.

Ka rangahau, ka tūhura ngā ākonga kia mārama ai rātou ki ngā uara me ngā whakapono o te tangata, kia mārama anō ki te pāpātanga o aua āhuatanga ki te whakahiato hangarau.

Ka mōhio ki te tiaki whenua, ki te tiaki taiao, me te pahekotanga i waenganui i te whakaharatau hangarau me te hapori. Ko te ira atua, ko te ira tangata e noho ngātahi nei te tangata me te whenua.

Me whakaaro ki ngā mahi toitū a ngā tūpuna tae noa mai ki tēnei wā. Me āta titiro ki te pānga o te otinga hangarau ki a Papatūānuku rāua ko Ranginui.

Te Whakaharatau Hangarau

I roto i tēnei whenu ka pakari haere ngā mōhiotanga me ngā pūkenga hangarau.

Ko te whakaharatau hangarau te tōpūtanga o ngā mōhiotanga me ngā pūkenga e puta ai he otinga.





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2. He Taumata Mātauranga mō te Whakaaro Rorohiko



He tuhinga hukihuki

Taumata Mātauranga – Whakaaro Rorohiko

Hei āpititanga, ka tautuhia ngā whakatupuranga e ngā Taumata Mātauranga e rua, hei tohu i ngā pūkenga, te mōhiotanga me ngā waiaro o te ākonga matihiko me tōna āheinga i te mutunga o te Tau 10, me tā te ākonga i runga i te ara hei whai māna i tētahi wāhanga hangarau matihiko ake, neke atu rānēi hei te mutunga o te Tau 13. Ko ēnei ngā pou mō NCEA, hei tohu i te tīmatanga, i te mutunga hoki mā ngā ākonga kei ngā kura tuarua.

Ka noho ēnei taumata mātauranga hukihuki hei kaupapa mō ngā paerewa hou NCEA Taumata 1 mō Hangarau Matihiko.

HEI TE MUTUNGA O TE TAU 10

Ka mārama te ākonga he maha ngā hātepe ka taea mō te rapanga kotahi, ko ētahi he pai ake i ētahi atu, ā, mā te mōhio ki ngā tauira i waenga i ngā hātepe e taea ai te whakatau ko ngā hātepe kua mōhio kētia me te wā, te wāhi hei whakamahi anō.

Ka wetewete takitahi te rapanga ki ōna hātepe me te whiriwhiri i ko tēhea te hātepe ko tēhea te papatono rorohiko.

Ka whakatakoto hātepe mā te hanga papatono e whakamahi ana i ngā kōkuhanga, ngā whakaputanga, ngā raupapa, ngā hohoki, me te kōwhiringa mā ngā paheko whakatairite me ngā paheko taketake.

Ka whakamārama/tuhi tika te ākonga i tōna papatono me te whakamahi raupapa hei whakamātau hei patuiro hoki.

Ka mārama te ākonga he pēhea te rorohiko e whakaatu ai ngā momo raraunga e whakamahi mati tāhūrua ana, e whakamahi taurangi ai o ngā momo raraunga rerekē i roto i ngā papatono.

HEI TE MUTUNGA O TE TAU 13

Ka tātari te ākonga i tētahi tīpakohanga pūtaiao rorohiko (arā, ngā reo ōkawa, ngā tikanga whakawhiti kōrero, te matatini me te ngawhere, te whakataruna hinengaro, ngā whakairoiro me te ataata ā-rorohiko, ngā raraunga nui) e pā ana ki te wāhanga me te herenga o ngā whakaaro matua o ngā hātepe, te whakaatu raraunga me te taki rorohiko.

Ka aromātai me pēhea e whakamahi tika ai te kōtuitanga o ēnei whakaaro matua i a ia ka hanga taupānga tūturu.

Ka whakamahi te ākonga i tētahi tikanga pūkahatanga pūmanawa kua whakaaetia ki te hoahoa, hanga, tuhi tika me te whakamātau i tētahi papatono rorohiko matatini.

He tuhinga hukihuki

3. He Taumata Mātauranga mō te Hoahoa me te Hanga Otinga Matihiko



He tuhinga hukihuki

Taumata Mātauranga – Te Hoahoa me te Hanga Otinga Matihiko

HEI TE MUTUNGA O TE TAU 10

Ka whakamahi te ākonga i te whānuitanga o ngā pūmanawa hei hanga, hei whakakotahi kōrero matihiko hoki ki te waihanga otinga. Ka mahi mā tētahi tukanga tukurua ki te hoahoa, hanga, waihanga, pupuri, whakamātau, aromātai hoki i ngā kōrero matihiko e tutuki ai te kaupapa. Ka mōhio hoki ki ngā āhuetanga ā-pāpori, mā te kaiwhakamahi hoki e whaitake ana i a ia e hanga kōrero matihiko ana.

Ka taea te whakatau (takitahi te nuinga o te wā) mō ngā taputapu/āhuetanga mahi, te pūmanawa me te momo konae e tika ana i a ia ka hanga otinga matihiko, ka taea hoki te whakamārama i tāna i whakatau ai.

Ka mārama te ākonga ki te mahi a te pūnaha mahi hei whakahaere pūrere rorohiko whaiaro, te haumarutanga me te pūmanawa taipānga. Ka taea te whakamahi tikanga whakahaere konae i a ka hanga, ka pupuri kōrero matihiko hoki me te whakamahi i te whānuitanga o ngā pūrere pupuri kōrero e tika ana.

HEI TE MUTUNGA O TE TAU 13

Ka mahi takitahi te ākonga, takitini rānei i roto rōpū ako ngātahi, aronga maha ki te whakamahi tika i tētahi tukanga tukurua, tukanga tōtika hei hanga otinga matihiko kōunga, hāngai e tutuki ai ngā tikanga hoahoa. Ka kōtuitui i ngā āhuetanga ā-pāpori, ā-kaiwhakamahi hoki e whaitake ana ki te otinga i a ia e hanga kōrero matihiko ana.

Mā ngā otinga a te ākonga e whakakotahi ngā mōhioatanga whāiti ki ngā taipānga me ngā pūnaha matihiko mai i te whānuitanga o ngā wāhanga:

- LAN (whatunga paetata) tōna hanganga
- Ipurangi (te hanga pūnaha tūhonohono pūrere rorohiko, papatono me ngā taipānga)
- ngā taiao hiko matatini me ngā pūnaha tāmau
- ngā pūnaha pārongo matihiko
- hoahoa wheako kaiwhakamahi
- te matatini o te whakahaere pārongo matihiko
- rauemi matihiko auaha

He tuhinga hukihuki

4. He Taumata Mātauranga mō Ngā Āria o ngā Whakatupuranga Hangarau Matihiko Arareo Māori



He tuhinga hukihuki

Taumata Mātauranga mō Ngā Āria o ngā Whakatupuranga Hangarau Matihiko Arareo Māori

HEI TE MUTUNGA O TE TAU 10

Ka whakatinana, ka whakatairanga hoki te ākonga Hangarau Matihiko i ngā uara, ngā mōhiotanga me ngā mātauranga Māori.

He māia, he matatau hoki tōna mārāma ki te whānuitanga o ngā kupu marau e hāngai ana me ngā rerenga hāngai hoki o te reo matatini o te Hangarau Matihiko.

HEI TE MUTUNGA O TE TAU 13

Ka tāmau, ā, ka mātua whakamahi tika i ngā uara, ngā mōhiotanga ngā mātauranga Māori i ngā mahi katoa e hāngai ana.

He māia, he mōhio, he matatau, he kaiaka hoki tana whakamahi i te rangiwhāwhātanga o te reo marau me te reo horopaki hoki o te reo matatini o te Hangarau Matihiko.

He tuhinga hukihuki

5. He Taumata Mātauranga mō te Tangata me te Rorohiko



He tuhinga hukihuki

He Taumata Mātauranga mō te Tangata me te Rorohiko

HEI TE MUTUNGA O TE TAU 10

He kirirarau matihiko whai wāhi te ākongā.

E mārama ana ia ki te hira o ngā huarahi ako e ārahi ana i tana whai umanga hangarau matihiko, umanga me te hangarau matihiko hoki i tōna ao, i te motu, i te ao whānui tonu.

Ka arotake ia i ngā take hoahoa hangarau me ngā urupare kua tautohutia kētia me te whakatika kia pai ake te whakamahinga.

HEI TE MUTUNGA O TE TAU 13

He kirirarau matihiko māia, mōhio tāpae hoki te ākongā.

Ka whakaū ia i ngā kōwhiringa umanga hangarau matihiko, umanga me te hangarau matihiko huhua hoki o tōna ao, o te motu, o te ao whānui tonu, ā, ka hāngai ana whakatau umanga mōna.

Ka rangahau, ka arohaehae hoki ia i ngā āhuetanga ka pā ki ngā whakatau whakahoahoa me ngā momo hangarau ka whakamahia.

Ka arohaehae, ka whakahāngai hoki ia i ngā kitenga ki te whakapai ake i te whakamahinga.

Ka rangahau, ka arohaehae, ka whakamahi hoki i ngā mātāpono matatini o te whakahaere tūmahi.

He tuhinga hukihuki

6. Ngā Otinga Kauneke mō te Whakaaro Rorohiko



He tuhinga hukihuki

Ngā poutohu mo te Whakaaro Rorohiko

Kei raro nei e rārangi ana ngā pou tohu e waru kua oti i tēnei wā mō te whakaaro tatau hei whakaatu i tēnei o ngā whakatupuranga ako hangarau matihiko. E ai ki ngā whakaaro o te rōpū hoahoa, rōpū tuhi ka hāngai ngā poutohu 1 ki 5 ki te ako i ngā tau 10 tuatahi i te kura, heoi ngā poutohu 6 ki te 8, ka hāngai ki te ako i ngā tau 11 ki te 13 i te kura tuarua. Kei raro nei he taura tauaromahi mai i te poutohu 1 ki te 5 mō te whakaaro tatau.

Poutohu 1

Ka wetewetea tētahi tūmahi rorohiko-kore ki ētahi tohutohu tika, tohutohu mārama, me kī kia ngāwari ngā tohutohu, (whakaaro hātepe). Ka taea te tuku tohutohu, ka tautohu mēnā kei te hē, ā, ka whakatika ai (te patuiro). Mā tēnei mahi e whakaatu ka taea e rātou te whakamahi i ō rātou pūkenga whakaraupapa hei wetewete i tētahi tūmahi ki ōna tohutohu iti nei.

Poutohu 2

Ka mārama ko tēnei mea te hātepe, he tukanga tohutohu ki te whakaoti hopanga, ka taea hoki te whakamahi i ēnei ki te tuhi papatono rorohiko, ā, me tika, me hāngai ngā tohutohu kia taea ai e te rorohiko te whai. Ka hoatu, ka whai hoki i ngā hātepe patuiro ngāwari i roto i ngā taiao rorohiko, rorohiko-kore hoki. Ka taea ēnei hātepe te whakamahi ki te hanga papatono mā mā te whakauru i ngā mea pēnei i te kōkuhunga, i te whakaputanga me ngā raupapanga i tēnei taiao hanga papatono.

Poutohu 3

Ka mārama ki tēnei mea te hātepe, ki te rerekētanga i waenga i te hātepe me te papatono, ā, ka neke atu i te kotahi te hātepe ka taea mō te hopanga kotahi. Ka taea te whakaraupapa hopanga ki ngā tohutohu ngāwari ki te hanga hātepe mō te papatono rorohiko, ka whakamahi i ngā whakaaro raupapa ki te matapaki i te whanonga o ēnei papatono. Ka taea te whakahiato, te patuiro hoki i ngā papatono e whakamahi ana i ngā kōkuhunga, i ngā whakaputanga me ngā raupapanga me ngā hohoki. Kua mārama hoki e rua ngā āhuatanga mō te pupuri raraunga, ko ngā mati tāhūrua ēnei, ā, ngā bits.

Poutohu 4

Kua noho ki te whakaraupapa hopanga ki te hanga hātepe mā te whakamahi i ngā papa waihanga e toru i tēnei mea o te papatono: raupapanga (te raupapa tohutohu), kōwhiringa (te kōwhiri ko tēhea wāhanga o te hātepe e whakahaeretia ai ki ngā uara i tohua), me te tukurua (he tukurua i tētahi wāhanga o te hātepe me te loop e whai ana). Ka taea te whakauru i te hātepe mā te hanga i tētahi papatono e whakamahi ana i ngā kōkuhunga i ngā whakaputanga, i ngā raupapanga, i ngā hohoki me ngā tohutohu taketake mā te whakamahi i ngā paheko whakatairite.

Ka taea ngā hātepe me ngā papatono ngāwari te patuiro mā te tautohu mēnā kua hē ngā tohutohu, te whakatika i aua hē, me te whakamārama mai he aha i pēnei ai, i pēhea hoki te whakatika. Ka mārama hoki ki te whakaatu mai o te rorohiko i ngā raraunga mā te whakamahi i ngā mati tāhūrua, ā, ka taea e te rorohiko te rapu i ngā raru kua ū ki te pātengi raraunga me ōna whakawhitiwhitinga. Ka noho hukihuki mai i te 4 Haratua 2017. ā tōna wā ka whakahoutia i muri i ngā whakamātauranga me ngā tātaritanga. Ka arotakea ngā momo hātepe e pā ana ki te tere me te pai o te rorohiko ki te rapu me te wehewehe i tēnei mea o te raraunga.

Poutohu 5

Ka noho takitahi ki te whakaoti hopanga ki tētahi hātepe i āta hangaia nei kia aroā e tetahi purere rorohiko. Ka whakauru i te hātepe ma te hanga i tētahi papatono e whakamahi ana i ngā kōkuhunga i ngā whakaputanga, i ngā raupapanga, i ngā hohoki, ngā rerekētanga o ngā momo raraunga katoa, te whakamahi i ngā paheko whakatairite me ngā paheko taketake. Ka mōhio hoki ki hea whakamahia ai ngā momo anga whakahaere. Ka whakamārama/tuhi i te papatono, me te whakamahi hoki i tētahi ara tika mō te whakamātautau me te patuiro. Ka mārama hoki, ka taea e te rorohiko te pupuri i ngā momo raraunga katoa mā te whakamahi i ngā mati tāhūrua.



Poutohu 6

Ka taea te tohu me te whakatairite i te āhua o te uauatanga ā-rorohiko, o ngā hātepe tukurua mō te raru kotahi (te rapu me te wehewehe) e pā ana ki te tatau o ngā whakatairitenga me te roa o te wā o taua mahi. Ka mārama ki te tū āhua o te pārongo tuhiwaehe (pērā i te whakakōpētanga, i te whakamunatanga, i te hēanga), ngā whakamahinga noa o te pārongo tuhiwaehe, me te whakamahinga o ngā momo hangarau i ngā pārongo tuhiwaehe. Ka taea te whakamahi i te anga tārai rite ki tētahi papatono, kia tere ai, kia pai ai te pupuri i ngā kohinga raraunga.

Poutohu 7

Ka matua mohio kare tonu e taea te whakatika i nga raru ā-rorohiko katoa mā te hātepe, ā, he uaua hoki ētahi (kāore he pūrere kia hangaia ki te whakamahi i tēnei tū momo hātepe), ā, kia tīkina atu he momo otinga, arā, ko te otinga Heuristic tēnei. Ka whakawhitiwhiti kōrero hoki mō te tohutohu anga raraunga me te arotake i te whakamahinga o aua raraunga i roto i te āhuatanga o te tuaritanga i waenga i whakaritenga mahi, i ngā whakaritenga pupuri hoki, me ngā pānga ki ngā momo hātepe katoa. Ka whakamahia hoki te tukanga tukurua ki te hoahoa, ki te whakahiato, ki te tuhi me te whakamātautau i tētahi papatono rorohiko matatini.

Poutohu 8

Ka tātari hoki i ētahi wāhanga o te pūtaiao rorohiko (pērā i ngā reo ōkawa, i ngā kawa whatunga tuku kōrero, i te matatini me te ngohengohe, he whakataruna hinengaro, ngā whakairo me ngā rorohiko ataata, raraunga nui) e pā ana ki te wāhanga e whakapakarihia ana e ngā whakaaro matua o ngā hātepe, ngā whakaaturanga raraunga me ngā mahi hanga papatono. Ka arotakea te kōtuitanga o ēnei whakaaro matua i te wā e hoahoatia ana ngā taupanga. Kua whakamahi i tētahi anga pūmanawa hangana kua whakaaetia, ki te hoahoa, ki te whakahiato, ki te tuhi me te whakamātautau i tētahi papatono rorohiko whatutoto.

He tuhinga hukihuki

7. Ngā Otinga Kauneke mō te Hoahoa me te Hanga Otinga Matihiko



He tuhinga hukihuki

Ngā poutuho mo ngā Otinga Kauneke mō te Hoahoa me te Hanga Otinga Matihiko

Kei raro nei e rārangi ana ngā pou tohu e rima kua oti i tēnei wā mō te whakaturanga ako; Ngā Otinga Kauneke mō te Hoahoa me te Hanga Otinga Matihiko mō te Hangarau Matihiko. E ai ki ngā whakaaro o te rōpū hoahoa, rōpū kaituhi ka hāngai ngā poutuho 1 ki te 3 ki te ako i ngā tau 10 tuatahi i te kura, heoi, ko ngā poutuho 4 me te 5, ka hāngai ki te ako i ngā tau 11 ki te 13 i te kura tuarua.

Poutuho 1

Ka whai wāhi ki tētahi mahi whakahiato he mea ārahi nā te kaiako, ki te waihanga, ki te raweke, ki te pupuri, ki te tiki ki te tuari hoki.

Kei roto mai:

- Te tautohu pūrere matihiko me tōna pūtaka i runga i te mōhio nā te tangata i hanga.
- Tautohu i ngā kōkūhanga me ngā whakaputanga o tētahi pūnaha
- Ka aro ki ētahi pūmanawa me te pūtaka o aua pūmanawa (kanohi-kitea, taiwhanga waituhi)
- Ka mārama ko tā te rorohiko he pupuri kōrero, ā, taihoa ake tiki atu ai.

Poutuho 2

Mēnā ka hoatu tohutohu/paearu me ngā taputapu/āhuatanga rānei ka whakatau tikanga (ā-takitahi te nuinga) mō te waihanga, te raweke, te pupuri, te tiki, te tuari, me te whakamātau rānei i te korero (i whakahiatohia mō tētahi take motuhake) i roto i tētahi pūnaha tūturu.

Kei roto mai

- Ka mārama he mea tipu, he mea panoni hoki te pūrere i roto i te huringa o te wā, ā, he awenga/pānga anō tōna ki te tangata/porihanga.
- Ka mārama ki te mahi ake o tēnā, o tēnā wāhanga o te kōkūhanga tūturu, te tukanga, te pūnaha whakaputanga me te āhua mahi ngātahi o aua wāhanga.
- Ka mārama he mea whakaumu ngā kōkūhanga hei whakaputanga i roto i tētahi pūnaha tūturu me te kawenga 'whakamatua' a te tangata.
- Ka āta whakamahi i te whanuitanga o ngā pūmanawa (momo kōnae)

Poutuho 3

Mēnā ka hoatu tohutohu ka whakatau tikanga (ā-takitahi te nuinga) mō te taputapu/āhuatanga pai hei whakaoti rapanga. Ka mahi haere mā tētahi tukanga auau ki te hoahoa, ki te whakahiato, ki te waihanga, ki te pupuri, ki te whakamātau, ki te arotake kōrero matihiko e tutuki ai tōna pūtaka.

Kei roto mai

- Ka tīpako pūmanawa e pai ana me ngā momo kōnae mō tētahi kaupapa ake e ai ki te tino āhuatanga, ā, ka taunaki mai i tāna i tīpako ai. Ka whakamahi i ngā pūmanawa i tīpakohia ki te whakahiato, ki te whakakotahi kōrero matihiko hei waihanga i tētahi huanga.
- Ka mārama ki tā te pūnaha whakahaere i te pūrere rorohiko whaiaro, te whakamarumarū me te pūmanawa tautono. Ka whakamārama i ngā tikanga o te whakahaere kōnae me te whakamahi pūrere pupuri kōrero.

Poutuho 4

Ka taea te mahi takitahi i runga tukanga auau ki te hoahoa, ki te whakahiato, ki te pupuri, ki te whakamātau ki te arotake hoki kōrero matihiko e tutuki ai tōna pūtaka.

Kia maumahara: I te kauneke i waenga i te poutuho 4 me te 5 ka nui atu te hangore, te mauritau, te arotautanga o ngā taputapu me ngā āhuatanga me te whakahāngai i ngā horopaki whāiti.

Poutuho 5

Ka taea te hono haere tōna mōhioatanga ki ngā pūmanawa matihiko me ngā pūnaha ki te whakamahere, ki te hoahoa, ki te whakahiato/whakamātau kit e waihanga huanga matihiko kounga, e hāngai tonu ana ki ngā tohutohu a te kaihoahoa.

Kei roto mai

- Ka mārama ki ngā wāhanga pūrere, ngā tikanga me te hanganga ā-whatunga e whakamahia ana i roto i te Hononga Whānui (WAN) ki tōna whakamahi ki te whakakao, ki te whakarite kit e whakahaere anō hoki i te Hononga Whānui.
- Ka matapaki, ka hoahoa, ka hanga, ā ka patuiro hoki i te taiao hiko matatini me ngā pūnaha tāmau e ai ki ōna pūnaha iti me ōna hanganga papatono.
- Ka mārama ki tā te pūnaha hōtuku painga ki tētahi whakahaere. Ka whakamārama i te āhua o te tauwhitiwhitinga o ngā wāhanga matua o te pūnaha hōtuku (te pūrere, te pūmanawa, ngā hātepe raraunga me ngā tāngata) me te hiranga o te kaiwhakamahi mutunga me te whakahaere haumarū.
- Ka whakahāngai tōtika i te tukanga pūnaha pūkhatanga auau ki te whakahiato huanga matihiko.

He tuhinga hukihuki

8. E rua ngā tauaromahi Arareo Māori



He tuhinga hukihuki

Ngā Āria o ngā whakatupuranga Hangarau Matihiko Arareo Māori me Te Tangata me te Rorohiko

HEI TE MUTUNGA O TE TAU 4: TAUMATA 1-2 O TMOA

Ngā Ariā o Ngā Whakatupuranga Hangarau Matihiko Arareo Māori

Ka whakaatu te ākonga Hangarau Matihiko me pēhea te whakatinana i ngā uara, ngā mōhiotanga me ngā mātauranga Māori. Ka whakamahia hoki ētahi kupu hāngai, rerenga hāngai hoki o te reo matatini o te Hangarau Matihiko.

HEI TE MUTUNGA O TE TAU 8: TAUMATA 3-4 O TMOA

Ka whakamahi te ākonga Hangarau Matihiko i ngā uara, ngā mōhiotanga me ngā mātauranga Māori. Kua tīmata, kua māia hoki tana whakamahi i te whānuitanga o ngā kupu marau e hāngai ana me ngā rerenga hāngai hoki o te reo matatini o te Hangarau Matihiko.

HEI TE MUTUNGA O TE TAU 10: TAUMATA 5 O TMOA

Ka whakatinana, ka whakatairanga hoki te ākonga Hangarau Matihiko i ngā uara, ngā mōhiotanga me ngā mātauranga Māori. He māia, he matatau hoki tōna mārāma ki te whānuitanga o ngā kupu marau e hāngai ana me ngā rerenga hāngai hoki o te reo matatini o te Hangarau Matihiko.

Te Tangata me te Rorohiko

Ka tautuhitia e te ākonga tana noho hei kirirarau matihiko, ā, ka whakamārama hoki i ngā āhuatanga e hāngai ana. Kua tīmata tana whanake i tōna mōhio ki ngā mahi ka tutuki i te tangata i te hapori, ā, kua whanake hoki tana āhei ki te ako i ngā pūkenga whakawhitiwhiti hangarau matihiko me te tāpae hoki ki tōna ao. Ka tautuhi, ka taunaki hoki ia i ngā take hoahoa hangarau me ngā urupare ki aua take.

Ka tautuhitia e te ākonga tana noho hei kirirarau matihiko, ā, ka whakawhiti kōrero, ka whakamārama hoki i ngā āhuatanga e hāngai ana. Kua mōhio ia ki te hononga i waenganui i te ako me te mahi, ā, kei te whanake ōna pūkenga whakawhitiwhiti hangarau matihiko ki te tāpae ki tōna ao, ki te motu, ki te ao whānui tonu. Ka tūhura ia i ngā take me ngā urupare o te hoahoa hangarau kua tautohutia kētia.

He kirirarau matihiko whai wāhi te ākonga. E mārāma ana ia ki te hira o ngā huarahi ako e ārahi ana i tana whai umanga hangarau matihiko, umanga me te hangarau matihiko hoki i tōna ao, i te motu, i te ao whānui tonu. Ka arotake ia i ngā take hoahoa hangarau me ngā urupare kua tautohutia kētia me te whakatika kia pai ake te whakamahinga.

**HEI TE MUTUNGA O
TE TAU 11:
TAUMATA 6 O TMOA**

Ka tāmāu te ākongā Hangarau Matihiko i ngā uara, ngā mōhiotanga me ngā mātauranga Māori. He māia, he matatau, he kaiaka hoki tana whakamahi i te whānuitanga o te reo marau me te reo horopaki hoki o te reo matatini o te Hangarau Matihiko.

**HEI TE MUTUNGA O
TE TAU 12:
TAUMATA 7 O TMOA**

Ka tāmāu, ā, ka whakamahi tika hoki te ākongā Hangarau Matihiko i ngā uara, ngā mōhiotanga ngā mātauranga Māori i ngā mahi katoa e hāngai ana. He māia, he mōhio, he matatau, he kaiaka hoki tana whakamahi i te whānuitanga o te reo marau me te reo horopaki hoki o te reo matatini o te Hangarau Matihiko.

**HEI TE MUTUNGA O
TE TAU 13:
TAUMATA 8 O TMOA**

Ka tāmāu, ā, ka mātua whakamahi tika i ngā uara, ngā mōhiotanga ngā mātauranga Māori i ngā mahi katoa e hāngai ana. He māia, he mōhio, he matatau, he kaiaka hoki tana whakamahi i te rangiwhāwhātanga o te reo marau me te reo horopaki hoki o te reo matatini o te Hangarau Matihiko.

He kirirarau matihiko whai wāhi, māia hoki te ākongā. Ka whakahāngai ia i tōna māramatanga ki te hira o ngā huarahi ako e ārahi ana i tana whai umanga hangarau matihiko, umanga me te hangarau matihiko hoki i tōna ao, i te motu, i te ao whānui tonu. Ka whakaahua, ka whakamārama hoki ia i ngā āhuetanga ka pā ki ngā whakatau whakahoahoa me ngā momo hangarau ka whakamahia ki te whakapai ake i te whakamahinga. Ka whakaahua, ka whakamārama hoki i ngā mātāpono waiwai o te whakahaere tūmahi.

He kirirarau matihiko māia, mōhio hoki te ākongā. Ka tūhura ia i ngā kōwhiringa whānui o ngā umanga hangarau matihiko, umanga me te hangarau matihiko hoki i tōna ao, i te motu, i te ao whānui tonu. Ka whakaahua, ka whakamārama hoki ia i ngā āhuetanga ka pā ki ngā whakatau whakahoahoa me ngā momo hangarau ka whakamahia, ā, ka whakahāngai i ngā kitenga ki te whakapai ake i te whakamahinga. Ka aromātai, ka arotake, ka whakamahi hoki i ngā mātāpono waiwai o te whakahaere tūmahi.

He kirirarau matihiko māia, mōhio tāpae hoki te ākongā. Ka whakaū ia i ngā kōwhiringa umanga hangarau matihiko, umanga me te hangarau matihiko huhua hoki o tōna ao, o te motu, o te ao whānui tonu, ā, ka hāngai ana whakatau umanga mōna. Ka rangahau, ka arohaehae hoki ia i ngā āhuetanga ka pā ki ngā whakatau whakahoahoa me ngā momo hangarau ka whakamahia. Ka arohaehae, ka whakahāngai hoki ia i ngā kitenga ki te whakapai ake i te whakamahinga. Ka rangahau, ka arohaehae, ka whakamahi hoki i ngā mātāpono matatini o te whakahaere tūmahi.

He tuhinga hukihuki

9. He Tauaromahi mō ngā Āria o ngā Whakatupuranga Hangarau Matihiko Arareo Māori



He tuhinga hukihuki

He Whatunga Āhua

Rara: Hātepe, Whakaatu raraunga
Taumata: 1 me te 2

Ngā Ariā o Ngā Whakatupuranga Hangarau Matihiko Arareo Māori

Ka whakaatu te ākonga Hangarau Matihiko me pēhea te whakatinana i ngā uara, ngā mōhiotanga me ngā mātauranga Māori. Ka whakamahia hoki ētahi kupu hāngai, rerenga hāngai hoki o te reo matatini o te Hangarau Matihiko.

Te Horopaki Ako

Kia rapu ngā ākonga i te ara roa rawa atu i tētahi whatunga mā te whai i tētahi ture.

Ko tā te pouako, he whakaako i te hātepe mā te whakamārama i te tikanga o tētahi ture ka whāia e ngā ākonga, hei tauira, ko te tapawhā ki te tapatoru ki te porowhita, ā, hoki atu. Mā ngā ākonga e whakapae kia hia ngā hurihanga ka taea i tētahi whatunga, ā, ka rapua te ara roa rawa atu i taua whatunga. Ka rangahaua ngā tikanga o te raraunga me te mārama i te hononga ki te Pāngarau. Me waia haere ngā ākonga ki ngā āhuatanga o te waihanga hātepe, o te whakamahi hātepe me te whakatika ina hapa ana.

I tēnei kiriatia, ka kitea atu:

- te hononga o te tūāpapa o te Tuhiwaehe, arā, ko te Hātepe.
- ngā tamariki e ako ana i ngā āhuatanga o tētahi whatunga me te whai māramatanga mō te ture o te hātepe kia oti tika ai te ngohe.
- ngā tamariki e kohikohi raraunga ana e pā ana ki ngā momo tīmatanga ka taea i tētahi whatunga.
- te hononga o te Hangarau Matihiko ki Te Marautanga o Aotearoa, arā, ki Te Reo Māori, ki Te Reo Matatini hoki.
- ngā tamariki e whai tohutohu ana, e tuku tohutohu ana hoki mō te ara roa rawa atu i tētahi whatunga mā te whai i tētahi ture.

He Matapaki

Ka tūhura ngā tauira i te anga o te whatunga.

- E hia ngā hurihanga o te ture e taea ana?
- E hia ngā āhua katoa?
- E hia ngā kapa, e hia ngā pou?

- Ka taea te whakamahi ngā whitinga katoa?
- He aha te rautaki? Ka tīmata ki hea?
- Hei mahi takirua: whakamāramahia atu ki tō hoa te ara roa rawa i rapua ai e koe.
 - Me pēhea te whakamōhio atu i te taunga tīmatanga?
 - Me pēhea te whakamōhio atu i ngā nekehanga o te ara?
 - Me pēhea te huri haere i te whatunga kia whai ara hou?

Ki Hea Ināiane?

Kia tupu tonu tēnei ākonga, me arotahi ki:

- te tūhura i te whakamahinga o ngā hātepe hei whakaraupapa, hei wetewete raraunga hoki.
- te whakamahi i ngā momo taupānga tuhiwaehe hei whakawhiti i ā te ākonga tohutohu ki tētahi taiao waehe.
- ētahi atu ngohe hātepe kia rapu i te ara poto rawa atu.

Ngā Hononga ki te Hangarau Matihiko

Ka taea e te ākonga te:

- āta wetewete i tētahi ture;
- matapaki i ngā otinga e taea ana;
- whai me te whakamahi i tētahi hātepe;
- waihanga rautaki hei whai otinga;
- kohi raraunga mō ngā ara i whāia;
- te whai me te tuku tohutohu ki tētahi atu tangata;
- whakatika ina hapa ia.

Ngā Hononga ki te Marautanga

Ngā Āhuatanga o te Hangarau

- Ka whakawhitiwhiti kōrero mō te hononga o te tangata me te taiao, arā:
 - ka whakamārama i ngā uara e whakamahia ana e te tangata. (T2)

Te Whakaharatau Hangarau

2. Ka whakaputa, ka whakatairanga i ōna hiahia hei mahere māmā, arā:
 - he hātepe kia tīmataria ai te hanga. (T1)
3. Ka whakamātau, ka aromātai i te otinga i runga anō i te āhua o:
 - te hiahia, te huarahi wātea rānei. (T2)

Ngā Hononga ki te Pāngarau

Te Tau me te Taurangi

Ngā rautaki whakarea māmā mō te whakareatanga, te whakawehenga, me te whiriwhiri hautanga māmā o tētahi tauoti.

Te Tauira me te Pānga

Ngā tauira tāpiripiri, tauira whakarea māmā, me ngā tauira āhuahanga, pānga hoki ngā tauira o roto i te wāwāhitanga whakarea o tētahi tau.

Te Wāhi, te Ahunga me te Panoni

Te tukutuku, te takirua raupapa, ngā ahunga matua, me ngā mahere māmā hei whakaatu taunga, huarahi, panoni māmā hoki.

He Rauemi

NRICH enriching mathematics.

Te Whai Mahere mā te Tuku Tuhiwaehere

Rara: Tuhiwaehere, Ngā Pūrere Matihiko, Ngā Taupānga Matihiko

Taumata: 3 me te 4

Ngā Ariā o Ngā Whakatupuranga Hangarau Matihiko Arareo Māori

Ka whakamahi te ākonga Hangarau Matihiko i ngā uara, ngā mōhiotanga me ngā mātauranga Māori. Kua tīmata, kua māia hoki tana whakamahi i te whānuitanga o ngā kupu marau e hāngai ana me ngā rerenga hāngai hoki o te reo matatini o te Hangarau Matihiko.

Te Horopaki Ako

Ko te tuhi i tētahi waehere kia tika te haere o te karetao i te kāinga ki te marae.

Ko tā te pouako, he āwhina i ngā ākonga ki te whakarite me te whakatakoto i te mahere whenua me te whakaraupapa i ngā tohutohu. Ko tāna hoki, he whakaatu i ngā taupānga whaitake e hāngai ana ki ngā pūkenga hangarau o te ākonga.

I tēnei kiriata, ka kitea:

- te hononga o te Tuhiwaehere ki te Tuhituhi me te Pāngarau.
- te ngāwari mō te whakarite i tētahi mahere whenua hei ara mō te karetao.
- ngā tamariki e whakaharatau ana i ngā pūkenga tuhiwaehere: te whakaraupapa tohutohu, te whakatika i ngā hapa waehere, te tuku waehere ki te iPapa.
- ētahi painga 'huna' o te pūrere matihiko mō te whakakōrero i te ākonga, mō te mahi takitahi, takirua hoki.
- te ngahau me te māmā mō te whakahaere karetao mā te tuhiwaehere.

He Matapaki

- He tika rānei te raupapatanga o ngā mahi?
- He aha ētahi raruraru i puta i a koe e tuku waehere ana ki te iPapa?
- He aha ētahi raruraru i puta i a koe e whakahaere ana i te karetao?

- He aha te rerekētanga o te whakaraupapa tohutohu tuhituhi i te whakaraupapa tohutohu tuhiwaehere?
- He aha ngā tauritenga, ngā rerekētanga o āu kohinga waehere ki ō ētahi atu ākonga?
- He māramatanga hou oū mō te whakahaere i tētahi rawa matihiko?
- Kua tutuki i a koe ō whāinga ako?

Ki Hea Ināianeī?

Kia tupu tonu tēnei ākonga, me arotahi ki:

- te whakarerekē i te mahere whenua kia whakawhānui i ngā momo tohutohu.
- te tāpiri pūrere matihiko ki te karetao, pērā i te kāmera hei whakawhānui i ngā momo waehere ka ākona.
- te whakamahi i ētahi atu taupānga hāngai, whaitake hoki.

Ngā Hononga ki te Marau Hangarau Matihiko

Tuhiwaehere

Ka taea e te ākonga te:

- whakawhiti i ngā tohutohu mō te haere ki tētahi wāhi kua tuhia hei tono waehere.
- whakaharatau i ngā momo nekehanga o te karetao, pērā i te neke whakamua, neke whakamuri, huri whakatematau.
- whakaraupapa tika i ngā tohutohu.
- whakatika hapa kia tika ake te nekehanga o te karetao.

Ngā pūrere matihiko me ngā hanganga

Ka taea e te ākonga te:

- whakarite me te tuku i te waehere ki tētahi pūrere matihiko, pērā i te iPapa, te paparorohiko rānei.

Ngā taupānga matihiko

Ka taea e te ākongā te:

- whakamahi i tētahi taupānga tuhiwaehe whaitake hei whakaatu i āna akoranga.
- whiriwhiri i te taumata tika o tētahi taupānga e hāngai ana ki te ngohe ka whāia.

Ngā Hononga ki te Marautanga

Ngā Āhuetanga o te Hangarau

1. Ka āta whakaaro ki ngā uara me ngā whakapono kua whakamahia, kia mārama ai ngā āhuetanga o te otinga kua puta. Me āta whakaaro ki:
 - ngā mātāpono hangarau;
 - te hāngaitanga ki te tangata.

Te Whakaharatau Hangarau

Taumata 3

2. Ka whakaraupapatia he mahere hoahoa whaitake.
3. Ka whakamātau, ka aromātai i te hoahoa. Ka kōwhiritia tētahi huarahi kia tika rawa.

Taumata 4

4. Ka whakamahia he mahere, ka whakamātauria kia kitea:
 - te whakatupuranga;
 - te tōtika o te mahi.
5. Ka whakahiatotia ngā pūkenga ā-ringa, ā-hinengaro, taha auaha anō hoki.
6. Ka mārama ki te whakahaere o ngā pūnaha hangarau.

Ngā Hononga ki te Tuhituhi

He Manu Tuhituhi - He Tuhinga Tohutohu

Ko te pūtake o te tuhinga tohutohu he tohu atu ki te kaupānui me pēhea te mahi i tētahi mahi. Ko te mea nui ka taea e tētahi atu te whai i ngā tohutohu.

Taumata 3 me te 4

Ka Mārewa/Ka Rere

- Te tohutohu mō te haere ki tētahi wāhi.

He Rauemi

- He Manu Tuhituhi - Tuhinga Tohutohu

Ko ngā momo taupānga tuhiwaehe

- Blockly
- Path
- Wonder

Te Ahunga o tō Kāpehu Matihiko

Rara: Te Tangata me te Rorohiko
Taumata: 5

Ngā Ariā o Ngā Whakatupuranga Hangarau Matihiko Arareo Māori

Ka whakatinana, ka whakatairanga hoki te ākonga Hangarau Matihiko i ngā uara, ngā mōhiotanga me ngā mātauranga Māori. He māia, he matatau hoki tōna mārama ki te whānuitanga o ngā kupu marau e hāngai ana me ngā rerenga hāngai hoki o te reo matatini o te Hangarau Matihiko.

Te Horopaki Ako

Ka tautohu, ka tuku urupare hoki ngā ākonga i ngā taukī kia mārama ai rātou ki ō rātou ake Kāpehu Matihiko.

Ko tā te pouako, he whakatō ki roto i ngā ākonga ngā tikanga, ngā haepapa hoki mō te kirirarautanga matihiko. Ka tīmata mai ngā mahi whakaako i te matapakī me te whakawhitiwhiti whakaaro mō ngā taukī. Me whakaaro ia ākonga ki ngā momo urupare e rima, ā, ka tīpakohia tētahi urupare mō ia taukī. Mutu ana, ka whakarōpūngia ngā taukī ki ngā ariā kirirarautanga matihiko e toru nei:

- te whakaute me te pare i a koe;
- te whakaute me te pare i ētahi atu;
- te whakaute me te pare i te whakairo hinengaro.

Kātahi, ka matapakīhia ngā take matua, pēnei i ngā taukī nei, ka puta i te akomanga, i te kura, waihoki, i te kāhui ako whānui.

He Matapakī

- He aha ngā huatau me ngā take matua o ia taukī?
- Kōrerohia mai tētahi o ngā take kua pāngia e koe? I ahatia? He aha te raruraru i puta?
- He aha te rautaki i whāia hei whakatau i te raruraru?
- Nā wai koe i āwhina?
- He aha te rerenga kētanga o tētahi raruraru ā-tuihono i tētahi raruraru kanohi ki te kanohi?
- Me pēhea te whakamahi tika i ngā rawa tuihono, pērā i ngā taupānga iPae?

Ki Hea Ināianeī?

Kia tupu tonu tēnei ākonga, me arotahi ki:

- ngā uara o te kura ake me te whakahāngai ki ngā ariā kirirarautanga matihiko e toru
 - te whakaute me te pare i a koe;
 - te whakaute me te pare i ētahi atu;
 - te whakaute me te pare i te whakairo hinengaro.

Whakarōpūngia te akomanga ki ngā uara o te kura. Mā ia rōpū ētahi whakaaetanga hei whakatau mō taua uara.

- tētahi kirimana, whakaaetanga Kirirarautanga Matihiko mō te kura whānui, ākonga mai, whānau mai, pouako mai, poari mai anō hoki.

Ngā Hononga ki te Hangarau Matihiko

Hei te mutunga o te Tau 10: Taumata 5 o TMOA

He kirirarau matihiko whai wāhi te ākonga. E mārama ana ia ki te hira o ngā huarahi ako e ārahi ana i tana whai umanga hangarau matihiko, umanga me te hangarau matihiko hoki i tōna ao, i te motu, i te ao whānui tonu. Ka arotake ia i ngā take hoahoa hangarau me ngā urupare kua tautohutia kētia me te whakatika kia pai ake te whakamahinga.

Ngā Hononga ki te Marautanga

Ngā Āhuatanga o te Hangarau

1. Ka whakatairanga i ō rātou ake whakapono, uara rānei hei otinga:
2. mō te whānau, te hapori, te hapū, te iwi rānei, ā, ka tūhura i te pāpātanga ki ētahi atu ahurea, hunga kiritaki hoki.

Te Whakaharatau Hangarau

3. Ka kimi rautaki hei whakatairanga i ngā otinga kua puta.

He Rauemi

- www.digizen.org
- Netsafe. (Sept 2016) [Resources for secondary schools \(Years 9-13\)](#)
- Park, Yuhyun. (Sept 2016) [8 digital life skills all children need - and a plan for teaching them](#) World Economic Forum.
- Project DQ [What is DQ? 8 digital skills we must teach our children](#)

Hei Āpitianga:

- **Ngā Taukī**

Te tuku whakamua i ngā pātuhi whakaiti e pā ana ki ētahi atu.

Te whakamahi i ngā waea pūkoro i te akomanga.

Te kōrero ki tangata kē i te ao matihiko e pā ana ki ngā mea tūmataiti.

Te tikiake i tētahi taura tuhingaroa i te pae tukutuku o te kura.

Te whakamōhio atu ki ō hoa, he pae tukutuku whaitake ki te mahi kāinga.

Te toro ki ngā pae tukutuku i ngā ĩmēra e whiwhi ana koe i te tauhou.

Te tuku i ngā whakaahua ōu ki te tauhou.

Te tuku atu i ngā whakaahua o ō hoa ki Pukamata me te kore pātai atu mēnā e pai ana ki a rātou.

Te whakaae ki ngā tonohoa katoa i Pukamata ahakoa ko wai te tangata.

Te tuku kangakanga, te tākupu kāore e tika ana ki te whārangī Pukamata o tōu hoa.

Te tuku i te honongaitua whaitake mō te mahi Pāngarau ki ōu hoa.

- **Ngā Urupare**

Kei te pai

Kāore i te pai

I runga anō i te horopaki

Kei a koe

He aha hoki te raru?

10. Te Tāpiritanga

Hangarau Matihiko: He Whaka

Year Levels	1	2	3	4	5	6	7
Curriculum Levels	1		2		3		4

Ngā Ariā o Ngā Whakatupuranga Hangarau Matihiko Arareo Māori

Ka whakaatu te ākonga Hangarau Matihiko me pēhea te whakatinana i ngā uara, ngā mōhioanga me ngā mātauranga Māori. Ka whakamahia hoki ētahi kupu hāngai, rerenga hāngai hoki o te reo matatini o te Hangarau Matihiko.

Ka whakamahi te ākonga Hangarau Matihiko i ngā mōhioanga me ngā mātauranga Māori kua māia hoki tana whakamahi i te whānau kupu marau e hāngai ana me ngā rerenga te reo matatini o te Hangarau Matihiko.

Te Tangata me te Rorohiko

Ka tautuhitia e te ākonga tana noho hei kirirarau matihiko, ā, ka whakamārama hoki i ngā āhuatanga e hāngai ana. Kua tīmata tana whanake i tōna mōhio ki ngā mahi ka tutuki i te tangata i te hapori, ā, kua whanake hoki tana āhei ki te ako i ngā pūkenga whakawhitiwhiti hangarau matihiko me te tāpae hoki ki tōna ao. Ka tautuhi, ka taunaki hoki ia i ngā take hoahoa hangarau me ngā urupare ki aua take.

Ka tautuhitia e te ākonga tana noho hei kirirarau matihiko, ā, ka whakawhiti kōrero, ka whakamārama hoki i ngā āhuatanga e hāngai ana. Kua tīmata tana whanake i tōna mōhio ki ngā mahi ka tutuki i te tangata i te hapori, ā, kua whanake hoki tana āhei ki te ako i ngā pūkenga whakawhitiwhiti hangarau matihiko ki te tāpae ki tōna ao, ki te motuhake i te whānau tonu. Ka tūhura ia i ngā take me ngā urupare ki aua take.

katupuranga Kaupapa Māori Ake

	8	9	10	11 - 13
4	5		6 - 8	

Matihiko i ngā uara, Māori. Kua tīmata, hānuitanga o ngā uara hāngai hoki o Matihiko.

Ka whakatinana, ka whakatairanga hoki te ākongā Hangarau Matihiko i ngā uara, ngā mōhiotanga me ngā mātauranga Māori. He māia, he matatau hoki tōna mārama ki te whānuitanga o ngā kupu marau e hāngai ana me ngā rerenga hāngai hoki o te reo matatini o te Hangarau Matihiko.

Ka tāmau te ākongā Hangarau Matihiko i ngā uara, ngā mōhiotanga me ngā mātauranga Māori. He māia, he matatau, he kaiaka hoki tana whakamahi i te whānuitanga o te reo marau me te reo horopaki hoki o te reo matatini o te Hangarau Matihiko.

Ka tāmau, ā, ka mātua whakamahi tika i ngā uara, ngā mōhiotanga ngā mātauranga Māori i ngā mahi katoa e hāngai ana. He māia, he mōhio, he matatau, he kaiaka hoki tana whakamahi i te rangiwhāwhātanga o te reo marau me te reo horopaki hoki o te reo matatini o te Hangarau Matihiko.

Ka tāmau, ā, ka whakamahi tika hoki te ākongā Hangarau Matihiko i ngā uara, ngā mōhiotanga ngā mātauranga Māori i ngā mahi katoa e hāngai ana. He māia, he mōhio, he matatau, he kaiaka hoki tana whakamahi i te whānuitanga o te reo marau me te reo horopaki hoki o te reo matatini o te Hangarau Matihiko.

o hei kirirarau i whakamārama ua mōhio ia ki te mahi, ā, kei te whiti hangarau motu, ki te ao me ngā urupare o utia kētia.

Ka tautuhitia e te ākongā tana noho hei kirirarau matihiko, ā, ka whakawhiti kōrero, ka whakamārama hoki i ngā āhuatanga e hāngai ana. Kua mōhio ia ki te hononga i waenganui i te ako me te mahi, ā, kei te whanake ōna pūkenga whakawhitiwhiti hangarau matihiko ki te tāpae ki tōna ao, ki te motu, ki te ao whānui tonu. Ka tūhura ia i ngā take me ngā urupare o te hoahoa hangarau kua tautohutia kētia.

He kirirarau matihiko whai wāhi, māia hoki te ākongā. Ka whakahāngai ia i tōna māramatanga ki te hira o ngā huarahi ako e ārahi ana i tana whai umanga hangarau matihiko, umanga me te hangarau matihiko hoki i tōna ao, i te motu, i te ao whānui tonu. Ka whakaahua, ka whakamārama hoki ia i ngā āhuatanga ka pā ki ngā whakatau whakahoahoa me ngā momo hangarau ka whakamahia ki te whakapai ake i te whakamahinga. Ka whakaahua, ka whakamārama hoki i ngā mātāpono waiwai o te whakahaere tūmahi.

He kirirarau matihiko whai wāhi, māia hoki te ākongā. Ka whakahāngai ia i tōna māramatanga ki te hira o ngā huarahi ako e ārahi ana i tana whai umanga hangarau matihiko, umanga me te hangarau matihiko hoki i tōna ao, i te motu, i te ao whānui tonu. Ka whakaahua, ka whakamārama hoki ia i ngā āhuatanga ka pā ki ngā whakatau whakahoahoa me ngā momo hangarau ka whakamahia ki te whakapai ake i te whakamahinga. Ka whakaahua, ka whakamārama hoki i ngā mātāpono waiwai o te whakahaere tūmahi.

He kirirarau matihiko māia, mōhio tāpae hoki te ākongā. Ka whakaū ia i ngā kōwhiringa umanga hangarau matihiko, umanga me te hangarau matihiko huhua hoki o tōna ao, o te motu, o te ao whānui tonu, ā, ka hāngai ana whakatau umanga mōna. Ka rangahau, ka arohaehae hoki ia i ngā āhuatanga ka pā ki ngā whakatau whakahoahoa me ngā momo hangarau ka whakamahia. Ka arohaehae, ka whakahāngai hoki ia i ngā kitenga ki te whakapai ake i te whakamahinga. Ka rangahau, ka arohaehae, ka whakamahi hoki i ngā mātāpono matatini o te whakahaere tūmahi.

He tuhinga hukihuki

He Whakatupuran

Year Levels	1	2	3	4	5	6	7	8	
Curriculum Levels	1		2		3			4	

Poutohu 1

Ka wetewetea tētahi tūmahi rorohiko-kore ki ētahi tohutohu tika, tohutohu mārama, me kī kia ngāwari ngā tohutohu, (whakaaro hātepe). Ka taea te tuku tohutohu, ka tautohu mēnā kei te hē, ā, ka whakatika ai (te patuiro). Mā tēnei mahi e whakaatu ka taea e rātou te whakamahi i ō rātou pūkenga whakaraupapa hei wetewete i tētahi tūmahi ki ōna tohutohu iti nei.

Poutohu 2

Ka mārama ko tēnei mea te hātepe, he tukanga tohutohu hopanga, ka taea hoki te whakamahi i ēnei ki te tuhi papatā, me tika, me hāngai ngā tohutohu kia taea ai e te rorohiko hoatu, ka whai hoki i ngā hātepe patuiro ngāwari i roto rorohiko, rorohiko-kore hoki. Ka taea ēnei hātepe te whakamahi i ngā hātepe papatono māmā mā te whakauru i ngā mea pēnei i te whakaputanga me ngā raupapanga i tēnei taiao hang

Te Whakaaro Rorohiko o ngā Whakatupuranga Ako Hangarau Matihiko

Poutohu 5

Ka noho takitahi ki te whakaoti hopanga ki tētahi hātepe i āta hangaia nei kia aroā e tētahi purere rorohiko. Ka whakauru i te hātepe ma te hanga i tētahi papatono e whakamahi ana i ngā kōkūhanga i ngā whakaputanga, i ngā raupapanga, i ngā hohoki, ngā rerekētanga o ngā momo raraunga katoa, te whakamahi i ngā paheko whakatairite me ngā paheko taketake. Ka mōhio hoki ki hea whakamahia ai ngā momo anga whakahaere. Ka whakamārama/tuhi i te papatono, me te whakamahi hoki i tētahi ara tika mā te whakamātautau me te pautiro. Ka mārama hoki, ka taea e te rorohiko te pupuri i ngā momo raraunga katoa mā te whakamahi i ngā mati tāhūrua.

Poutohu 6

Ka taea te tohu me te whakatairite i te āhua o te uwhakatairite rorohiko, ngā hātepe tukuru mā te raru kotahi (te whewehewe) e pā ana ki te tatao o ngā whakatairite ngā hātepe te wā o taua mahi. Ka mārama ki te tū āhua o te tuhiwaehehere (pērā i te whakakōpētanga, i te whakamāhinga hēanga), ngā whakamahinga noa o te pārongo tuhiwaehehere whakamahinga o ngā momo hangarau i ngā pārongo. Ka taea te whakamahi i te anga tārai rite ki tētahi papatono tere ai, kia pai ai te pupuri i ngā kohinga rara

Te Hoahoa me te Hanga Otinga Matihiko

Poutohu 1

Ka whai wāhi ki tētahi mahi whakahiato he mea ārahi nā te kaiako, ki te waihanga, ki te raweke, ki te pupuri, ki te tiki ki te tuari hoki Kei roto mai:

- Te tautohu purere matihiko me tōna pūtake i runga i te mōhio nā te tangata i hanga.
- Tautohu i ngā kōkūhanga me ngā whakaputanga o tētahi pūnaha
- Ka aro ki ētahi pūmanawa me te pūtake o aua pūmanawa (kanohi-kitea, taiwhanga waituhi)
- Ka mārama ko tā te rorohiko he pupuri kōrero, ā, taihoa ake tiki atu ai.

Poutohu 2

Mēnā ka hoatu tohutohu/paearu me ngā taputapu/āhuatanga rānei ka whakatau tikanga (ā-takitahi te nuinga) mā te waihanga, te raweke, te pupuri, te tiki, te tuari, me te whakamātau rānei i te korero (i whakahiatohia mā tētahi take motuhake) i roto i tētahi pūnaha tūturu. Kei roto mai

- Ka mārama he mea tipu, he mea panoni hoki te purere i roto i te huringa o te wā, ā, he awenga/pānga anō tōna ki te tangata/porihanga.
- Ka mārama ki te mahi ake o tēnā, o tēnā wāhanga o te kōkūhanga tūturu, te tukanga, te pūnaha whakaputanga me te āhua mahi ngātahi o aua wāhanga.
- Ka mārama he mea whakaumu ngā kōkūhanga hei whakaputanga i roto i tētahi pūnaha tūturu me te kawenga 'whakamatua' a te tangata.
- Ka āta whakamahi i te whanuitanga o ngā pūmanawa (momo kōnae)

nga Kaupapa Rua

8	9	10	11 - 13
4	5	6 - 8	

tohu ki te whakaoti papatono rorohiko, orohiko te whai. Ka i roto i ngā taiao e whakamahi ki te ēnei i te kōkūhanga, hanga papatono.

Poutohu 3

Ka mārama ki tēnei mea te hātepe, ki te rerekētanga i waenga i te hātepe me te papatono, ā, ka neke atu i te kotahi te hātepe ka taea mō te hopanga kotahi. Ka taea te whakaraupapa hopanga ki ngā tohutohu ngāwari ki te hanga hātepe mō te papatono rorohiko, ka whakamahi i ngā whakaaro raupapa ki te matapaki i te whanonga o ēnei papatono. Ka taea te whakahiato, te patuiro hoki i ngā papatono e whakamahi ana i ngā kōkūhanga, i ngā whakaputanga me ngā raupapanga me ngā hohoki. Kua mārama hoki e rua ngā āhuatanga mō te pupuri raraunga, ko ngā mati tāhūrua ēnei, ā, ngā bits.

Poutohu 4

Kua noho ki te whakaraupapa hopanga ki te hanga hātepe mā te whakamahi i ngā papa waihanga e toru i tēnei mea o te papatono: raupapanga (te raupapa tohutohu), kōwhiringa (te kōwhiri ko tēhea wāhanga o te hātepe e whakahaeretia ai ki ngā uara i tohua), me te tukuruu (he tukuruu i tētahi wāhanga o te hātepe me te loop e whai ana). Ka taea te whakauru i te hātepe mā te hanga i tētahi papatono e whakamahi ana i ngā kōkūhanga i ngā whakaputanga, i ngā raupapanga, i ngā hohoki me ngā tohutohu taketake mā te whakamahi i ngā paheko whakatairite.

Ka taea ngā hātepe me ngā papatono ngāwari te patuiro mā te tautohu mēnā kua hē ngā tohutohu, te whakatika i aua hē, me te whakamārama mai he aha i pēnei ai, i pēhea hoki te whakatika. Ka mārama hoki ki te whakaatu mai o te rorohiko i ngā raraunga mā te whakamahi i ngā mati tāhūrua, ā, ka taea e te rorohiko te rapu i ngā raru kua ū ki te pātengi raraunga me ōna whakawhitiwhitinga. Ka noho hukihuki mai i te 4 Haratua 2017. ā tōna wā ka whakahoutia i muri i ngā whakamātauranga me ngā tātaritanga. Ka arotakea ngā momo hātepe e pā ana ki te tere me te pai o te rorohiko ki te rapu me te wehewehe i tēnei mea o te raraunga.

o te uauatanga ā-ahia (te rapu me te ritenga me te roa o a o te pārongo takamunatanga, i te tuhiwaehe, me te rongo tuhiwaehe. tahi papatono, kia a raraunga.

Poutohu 7

Ka matua mohio kare tonu e taea te whakatika i nga raru ā-rorohiko katoa mā te hātepe, ā, he uaua hoki ētahi (kāore he pūrere kia hangaia ki te whakamahi i tēnei tū momo hātepe), ā, kia tīkina atu he momo otinga, arā, ko te otinga *Heuristic* tēnei. Ka whakawhitiwhiti kōrero hoki mō te tohutohu anga raraunga me te arotake i te whakamahinga o aua raraunga i roto i te āhuatanga o te tuaritanga i waenga i whakaritenga mahi, i ngā whakaritenga pupuri hoki, me ngā pānga ki ngā momo hātepe katoa. Ka whakamahia hoki te tukanga tukuruu ki te hoahoa, ki te whakahiato, ki te tuhi me te whakamātautau i tētahi papatono rorohiko matatini.

Poutohu 8

Ka tātari hoki i ētahi wāhanga o te pūtaiao rorohiko (pērā i ngā reo ōkawa, i ngā kawa whatunga tuku kōrero, i te matatini me te ngohengohe, he whakataruna hinengaro, ngā whakairo me ngā rorohiko ataata, raraunga nui) e pā ana ki te wāhanga e whakapakarihia ana e ngā whakaaro matua o ngā hātepe, ngā whakaaturanga raraunga me ngā mahi hanga papatono. Ka arotakea te kōuitanga o ēnei whakaaro matua i te wā e hoahoatia ana ngā taupanga. Kua whakamahi i tētahi anga pūmanawa hangana kua whakaaetia, ki te hoahoa, ki te whakahiato, ki te tuhi me te whakamātautau i tētahi papatono rorohiko whatutoto.

Poutohu 3

Mēnā ka hoatu tohutohu ka whakatau tikanga (ā-takitahi te nuinga) mō te taputapu/āhuatanga pai hei whakaoti rapanga. Ka mahi haere mā tētahi tukanga auau ki te hoahoa, ki te whakahiato, ki te waihanga, ki te pupuri, ki te whakamātau, ki te arotake kōrero matihiko e tutuki ai tōna pūtake.

Kei roto mai

- Ka tīpako pūmanawa e pai ana me ngā momo kōnae mō tētahi kaupapa ake e ai ki te tino āhuatanga, ā, ka taunaki mai i tāna i tīpako ai. Ka whakamahi i ngā pūmanawa i tīpakohia ki te whakahiato, ki te whakakotahi kōrero matihiko hei waihanga i tētahi huanga.
- Ka mārama ki tā te pūnaha whakahaere i te pūrere rorohiko whaiaro, te whakamarumaru me te pūmanawa tautono. Ka whakamārama i ngā tikanga o te whakahaere kōnae me te whakamahi pūrere pupuri kōrero.

Poutohu 4

Ka taea te mahi takitahi i runga tukanga auau ki te hoahoa, ki te whakahiato, ki te pupuri, ki te whakamātau ki te arotake hoki kōrero matihiko e tutuki ai tōna pūtake.

Kia maumahara: I te kaunake i waenga i te poutohu 4 me te 5 ka nui atu te hangore, te mauritau, te arotautanga o ngā taputapu me ngā āhuatanga me te whakahāngai i ngā horopaki whāiti.

Poutohu 5

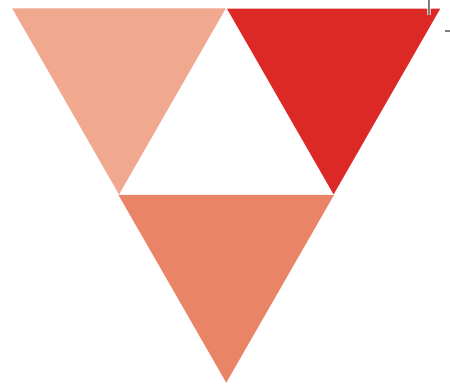
Ka taea te hono haere tōna mōhiotanga ki ngā pūmanawa matihiko me ngā pūnaha ki te whakamahere, ki te hoahoa, ki te whakahiato/whakamātau kit e waihanga huanga matihiko kounga, e hāngai tonu ana ki ngā tohutohu a te kaihoahoa.

Kei roto mai

- Ka mārama ki ngā wāhanga pūrere, ngā tikanga me te hanganga ā-whatunga e whakamahia ana i roto i te Hononga Whānui (WAN) ki tōna whakamahi ki te whakakao, ki te whakarite kit e whakahaere anō hoki i te Hononga Whānui.
- Ka matapaki, ka hoahoa, ka hanga, ā ka patuiro hoki i te taiao hiko matatini me ngā pūnaha tāmau e ai ki ōna pūnaha iti me ōna hanganga papatono.
- Ka mārama ki tā te pūnaha hōtuku painga ki tētahi whakahaere. Ka whakamārama i te āhua o te tauwhitiwhitinga o ngā wāhanga matua o te pūnaha hōtuku (te pūrere, te pūmanawa, ngā hātepe raraunga me ngā tāngata) me te hiranga o te kaiwhakamahi mutunga me te whakahaere haumaruru.
- Ka whakahāngai tōtika i te tukanga pūnaha pūkahatanga auau ki te whakahiato huanga matihiko.







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