

Paerewa Paetae

Aronga	Hangarau Matihiko 1.8		
Ingoa	Te whakamahi i ngā tukanga takaruretanga waiwai ki te whanake i tētahi hua matihiko		
Kaupae	1	Whiwhinga ⁶	Aromatawai ā-Roto
Marau akoranga	Hangarau		
Kokonga akoranga	Hangarau Matihiko		
Mana rēhita	Kua rēhitatia	Te rā i mana ai	23 o Whiringa-a-rangi 2017
Te rā e arotakengia ai	31 o Hakihea 2019	Te rā i puta ai	23 o Whiringa-a-rangi 2017

Mō tēnei paerewa paetae me whakamahi i ngā tukanga takaruretanga waiwai ki te whanake i tētahi hua matihiko.

Paearu Paerewa

Paetae	Kaiaka	Kairangi
<ul style="list-style-type: none"> Whakamahi i ngā tukanga takaruretanga waiwai ki te whanake i tētahi hua matihiko. 	<ul style="list-style-type: none"> Whakamahi i ngā tukanga takaruretanga waiwai ki te whanake i tētahi hua matihiko mātau. 	<ul style="list-style-type: none"> Whakamahi i ngā tukanga takaruretanga waiwai ki te whanake i tētahi hua matihiko whaitake.

Kōrero Whakamahuki

- I ahu mai tēnei paerewa paetae i te Taumata 6 o te wāhanga ako Hangarau o te marau *New Zealand Curriculum*, i whakaputaina e Te Pou Taki Kōrero i te tau 2007. E hāngai ana hoki ki ngā kōrero kua tuhia i te *Teaching and Learning Guide for Technology*, i whakaputaina e Te Tāhuhu o te Mātauranga, ā, ka kitea ki <http://seniorsecondary.tki.org.nz>.

He mōhiohia atu anō ka kitea ki <http://www.technology.tki.org.nz/>.

He tohutoro ki ngā mōhiohia hāngai kei te rauemi *Safety and Technology Education: A Guidance Manual for New Zealand Schools*, i whakaputaina e Te Tāhuhu o te Mātauranga, ā, ka kitea ki <http://technology.tki.org.nz/Technology-in-the-NZC/Safety-in-Technology-Education-revised-2017>, ki te Ture Hauora me te Haumarua ki te Wāhi Mahi 2015 hoki.

I ahu mai hoki tēnei paerewa paetae i *Te Marautanga o Aotearoa*. Mō ētahi atu kōrero e hāngai ana ki ngā putanga ka whai wāhi i tēnei paerewa tēnā tirohia te [Papa Whakaako](#) kia kitea te wāhanga ako tika.

2. Ka kapi i te paearu *whakamahi i ngā tukanga takaruretanga waiwai ki te whanake i tētahi hua matihiko*:

- te whakamaheretanga o tētahi hua matihiko hei whera i tētahi raru, hiahia, arahura, kaingākautanga rānei
- te whakahaere i te whanaketanga mā te whakamatariki i te hua matihiko ki ngā wae ririki
- te haratau i ngā wae o te hua mā tētahi ara takarure
- te whakamātautau kia kite e rere ana te hua matihiko e ai ki ngā whakaritenga
- te whakaahuatanga o ngā pānga hāngai.

Ka kapi i te paearu *whakamahi i ngā tukanga takaruretanga waiwai ki te whanake i tētahi hua matihiko mātau*:

- te whakamahinga o ngā mōhiohio kua kitea i ngā whakamātautau me ngā haratau ki te whakapai ake i te hua matihiko
- te haratau i ngā wae me ngā tū āhua huhua me te whiriwhiri i te mea tau ana
- te wheranga o ngā pānga hāngai.

Ka kapi i te paearu *whakamahi i ngā tukanga takaruretanga waiwai ki te whanake i tētahi hua matihiko whaitake* te whakamahinga o ngā mōhiohio kua puta i ngā mahi whakamahere, whakamātautau, haratau hoki o ngā wae ki te whanake i tētahi hua kounga ake nei.

3. Ka rerekē ngā ara whakamahere mō ngā wāhanga rerekē hoki o te hua e ai ki te āhua o te hua ka puta. Koinei ētahi tauira whakamahere ka kapia:

- ngā whakaahuatanga ā-reo māori noa
- te waehere-kikoika ki te whakaatu i te hanganga o ngā hātepe
- nga tuhinga whakaahua, ngā tāparewaea me ngā tauira o te hua.

4. Ka hoatu e te pouako, ka tautohua e te ākongā, e tētahi rōpū ākongā, e te akomanga whānui rānei tētahi raru, hiahia, arahura, kaingākautanga rānei. Ko te hua ka whanakehia e tētahi ākongā, akomanga, rōpū ākongā rānei he hua matihiko oti mō tētahi take, he wae taumahi rānei o tētahi hua nui.

5. Hei tauira o ngā pānga hāngai:

- pāpori
- ahurea
- ture
- matatika
- whakairoiro hinengaro
- matatapu
- āheitanga

- ngā āhuatanga o te whakamahi
 - ngā āhuatanga taumahi
 - taha rerehua
 - toitūtanga me te ora ā-raurangi
 - te whakaaro ki ngā kaiwhakamahi mutunga
 - te hauora me te haumarutanga.
6. Ko te *hua matihiko* he otinga ka whanakehia me te/ngā pūrere matihiko.
7. Ka kitea ngā Tikanga Aromatawai e hāngai ana ki tēnei paerewa paetae ki <http://ncea.tki.org.nz/Resources-for-Internally-Assessed-Achievement-Standards>.
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Tātari Kounga

1. Me mātua whakamana ngā Kaituku Akoranga me ngā Whakahaere Whakangungu Ahumahi e te Mana Tohu Mātauranga o Aotearoa ka rēhita ai i ngā hua ka puta mai i ngā aromatawai ki ngā paerewa paetae.
2. Me uru ngā Kaituku Akoranga me ngā Whakahaere Whakangungu Ahumahi kua mana, ā, e aromatawai ana i ā rātou hōtaka ki ngā paerewa paetae, ki ngā pūnaha whakarite e tika ana mō aua paerewa paetae.

Ko te tohutoro ki te Mahere Whakamana, Whakaōritenga hoki 0233