

## Paerewa Paetae

<b>Aronga</b>	Hangarau Matihiko 1.5		
<b>Ingoa</b>	Whakawhanake i tētahi hua tāhiko		
<b>Kaupae</b>	1	<b>Whiwhinga</b>	6
		<b>Aromatawai</b>	ā-Roto
<b>Marau akoranga</b>	Hangarau		
<b>Kokonga akoranga</b>	Hangarau Matihiko		
<b>Mana rēhita</b>	Kua rēhitatia	<b>Te rā i mana ai</b>	23 o Whiringa-a-rangi 2017
<b>Te rā e arotakengia ai</b>	31 o Hakihea 2019	<b>Te rā i puta ai</b>	23 o Whiringa-a-rangi 2017

E hāngai ana tēnei paerewa paetae ki te whanaketanga o tētahi hua tāhiko.

### Paearu Paerewa

Paetae	Kaiaka	Kairangi
<ul style="list-style-type: none"> <li>Whakawhanake i tētahi hua tāhiko.</li> </ul>	<ul style="list-style-type: none"> <li>Whakawhanake i tētahi hua tāhiko mātau.</li> </ul>	<ul style="list-style-type: none"> <li>Whakawhanake i tētahi hua tāhiko whaitake.</li> </ul>

### 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 *whakawhanake i tētahi hua tāhiko*:
- te whakamahinga o ngā rauemi me ngā tū āhua e tika ana i te whanaketanga o tētahi pahekotanga o ngā pūmārō me ngā pūmanawa ka tutuki i tā ngā tautuhinga
  - te whakakē me te patuiro i ngā pūmanawa tāmau
  - te whakahaerenga o ētahi hātepe ki te patuiro me te tātari i te pūnaha tāhiko
  - te whakaahuatanga o ngā atanga me ngā taumahi o ngā wae me ngā pūnaha kua whakamahia
  - te whakaahuatanga o ngā pānga hāngai.

Ka kapi i te paearu *whakawhanake i tētahi hua tāhiko mātau*:

- ngā pūmanawa whakakē, patuiro me te taipitopito kia arorau, kia mārama hoki te papatono
- te whakahaerenga o ētahi hātepe ki te patuiro me te tātari i te pūnaha tāhiko kia pai ake ai te whaikiko
- te whakamāramatanga o ngā whanonga me ngā taumahi o te hua tāhiko
- te wheranga o ngā pānga hāngai.

Ka kapi i te paearu *whakawhanake i tētahi hua tāhiko whitake*:

- te whakahaerenga o ētahi hātepe ki te patuiro me te tātari i te pūnaha tāhiko kia whaikiko mō tōna pūtaka
- te whai kia pai ake i roto i ngā whanaketanga me te tukanga whakamātautau
- te whakataunga kia tika te kōwhiringa o ngā wā me ngā pūnaha i whakamahia i te whanaketanga o te hua tāhuko.

3. Ko te *hua tāhiko* tētahi otinga kua whanakehia me ngā wae tāhiko, ngā pūmanawa whitake hoki.

4. 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.

5. Hei tauira o ngā ariā tērā pea ka kitea i te hua tāhiko:

- te taumahi o ētahi o ngā wae tāhiko
- he ara iahiko hei ara oti

- te ngaohiko hei inenga ngao
  - he iahiko hei auau o te rere o te whana
  - te tohatohatanga o te ngaohiko me te iahiko i tētahi ara iahiko (ara iahiko hātepe, whakarara hoki)
  - te pūkawe (e hāngai pū ana ki ngā whanonga mārakerake o ngā pūkawe, ngā tākai-iahiko me ngā āhuapūkawe)
  - ngā pūnaha iahiko āpiti, ngā tohu tikanga me ngā hoahoatanga iahiko
  - ngā pūmārō (hei tauira, ngā wae me ngā pahekotanga wae).
6. Koinei hei tauira o ngā whanaketanga hua tāhiko tērā pea ka kitea:
- te tīpako i te wae he pai katoa te momo me te wāriu
  - te tīpako i te whakatakotoranga pai mō ngā wae
  - te rerekētanga o ngā tawhā pūmārō tāuru, tāputa rānei
  - te rerekētanga o ngā tawhā pūmanawa rorohiko
  - te whakamahinga o tētahi ine-hiko ki te ine me te pūrongo i ngā taumata ngaohiko, iahiko hoki i ngā wāhi kua tohua.
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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### **Mōhiohio Whakahoutanga**

He whakahoutanga tēnei paerewa paetae i te AS91077, te AS91078 me te AS91079.

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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