

## Paerewa Paetae

<b>Aronga</b>	Hangarau Matihiko 1.11		
<b>Ingoa</b>	Whakaatu māramatanga o te tuhiwaehe kōpeketanga mō tētahi momo pāpāho kua whiriwhiria		
<b>Kaupae</b>	1	<b>Whiwhinga</b>	3
		<b>Aromatawai</b>	ā-Waho
<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 whakaaturanga o te māramatanga o te tuhiwaehe kōpeketanga mō tētahi momo rongorau kua whiriwhiria.

### Paearu Paerewa

Paetae	Kaiaka	Kairangi
<ul style="list-style-type: none"> <li>Whakaatu māramatanga o te tuhiwaehe kōpeketanga mō tētahi momo pāpāho kua whiriwhiria.</li> </ul>	<ul style="list-style-type: none"> <li>Whakaatu māramatanga hōhonu o te tuhiwaehe kōpeketanga mō tētahi momo pāpāho kua whiriwhiria.</li> </ul>	<ul style="list-style-type: none"> <li>Whakaatu māramatanga matatau o te tuhiwaehe kōpeketanga mō tētahi momo pāpāho kua whiriwhiria.</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 mōhiohi atu anō ka kitea ki <http://www.technology.tki.org.nz/>.

He tohutoro ki ngā mōhiohi 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 *whakaatu māramatanga o te tuhiwaehe kōpeketanga mō tētahi momo pāpāho kua whiriwhiria*:
- te tautohunga o ngā take ka kōpeke kōnae
  - te whakaatu ka pēhea te whakaahuatanga o te momo pāpāho kua whiriwhiria mā te whakamahi i ngā wāhanga kore kōpeke
  - te whakaatu i te mahi o te aratuka kōpeketanga whakaora katoa
  - te whakaaturanga o ētahi tauira i ngā wā kāore te kore kōpeketanga i te pai.

Ka kapi i te paearu *whakaatu māramatanga hōhonu o te tuhiwaehe kōpeketanga mō tētahi momo pāpāho kua whiriwhiria*:

- te hōparatanga o te whanaungatanga i waenganui i te kōpeketanga ākiri wāhi noa me te pōhēhē o te tangata e pā ana ki te momo rawatuku
- te arotakenga o ngā aratuka kōpeketanga ākiri wāhi noa, kōpeketanga whakaora katoa hoki.

Ka kapi i te paearu *whakaatu māramatanga matatau o te tuhiwaehe kōpeketanga mō tētahi momo pāpāho kua whiriwhiria* te arotake i te whakahohetanga o ngā taupānga ao-tūturu e ngā whakaahuatanga hāngai pēnei i te kōpeketanga me te ākiri wāhi noa, te kōpeketanga whakaora katoa, te kōpeketanga, te kore kōpeketanga rānei.

3. E āhei ana te whiriwhiri i tētahi o ngā pāpāho e rārangi nei, arā ngā atahanga, ororongo, ataata me te hākoritanga. Mehemea kua whiriwhiria te ataata, te hākoritanga rānei, e whakaae ana kia whakamahia ngā atahanga (tāparenga), te raraunga ororongo rānei mō ēnei mahi. Me whakaoti i ngā mahi i roto i te horopaki o te momo pāpāho kua whiriwhiria.
4. Koinei ētahi tauira o ngā aratuka *kōpeketanga whakaora katoa*:
- whakawaeheretanga wāhaere
  - whakawaeheretanga ā-auau pūāhua, whakawaeheretanga Huffman
  - ngā huarahi LZW.
5. 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