

Paerewa Paetae

Aronga	Hangarau Matihiko 1.7		
Ingoa	Whakawhanake i tētahi papatono rorohiko		
Kaupae	1	Whiwhinga	4
		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

E hāngai ana tēnei paerewa paetae ki te whanaketanga o tētahi tono mō tētahi hua matihiko.

Paearu Paerewa

Paetae	Kaiaka	Kairangi
<ul style="list-style-type: none"> Hanga i tētahi papatono rorohiko. 	<ul style="list-style-type: none"> Hanga i tētahi papatono rorohiko mātau. 	<ul style="list-style-type: none"> Hanga i tētahi papatono rorohiko 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 Haumaruru 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.

- Ka kapi i te paearu *hanga i tētahi papatono rorohiko*:

- te tuhiwaeheere mō tētahi papatono ka whakatutuki i tētahi mahi kua tautuhia, te whakamahi hoki i te reo papatono e tika ana
- te āta tuhiwaeheere kia mārama
- te taunaki i te papatono me ngā kōrero taipitopito
- te whakamātau me te patuiro i te papatonoki te whakaū i tōna āheinga i tētahi kohinga tauira tūāhua kawatau.

Ka kapi i te paearu *hanga i tētahi papatono rorohiko mātau*:

- te taunaki i te papatono me ngā ingoa rerekē, ngā kōrero taipitopito e whakaahua ana te taumahi me te whanonga o te waeheere
- te whai i ngā tikanga ā-reo mō te papatono kua whiriwhiria
- te āta whakamātau me te patuiro i te papatono ki ētahi āhuatanga ka puta, āhuatanga hāngai hoki, ki te whakaū i tōna āheinga.

Ka kapi i te paearu *hanga i tētahi papatono rorohiko whaitake*:

- te whakaū i te kounga o te hanga me te mārama o te urupare a te papatono ki te mahi
- te hanga kia hangore, kia pakari hoki te papatono
- te whakamātau me te patuiro whānui i te papatono

3. Tērā pea ka whakairoiro, ka tō-me-te-whakataka, ka kuputuhi rānei te reo o te papatono. Me taunaki te tū reo kua whiriwhiria i ngā momo raraunga, ngā anga hātepe me ngā āheinga tuhituhi taipitopito pai kia tika.
4. Ka whakamahi tētahi papatono rorohiko i:
 - ngā taurangi e rokiroki ana i ngā momo raraunga e rua neke atu (hei tauira: tau, kuputuhi, Boolean rānei)
 - ngā hanga whakamana ā-rārangi, ā-kōwhiringa, ā-takaruretanga hoki
 - tāurunga i tētahi kaiwhakamahi, ngā pūoko, i tētahi atu pūtaka ā-waho rānei
 - me tētahi atu, neke atu rānei o ēnei:
 - ngā raraunga kua whakaputua ki tētahi momo pātaka (hei tauira: ngā rārangi taputapu, ngā huānga, ngā papakupu)
 - ngā aratuka, ngā taumahi, ngā hātepe tautuhia-kaiwhakamahi rānei.
5. Hei tauira ēnei o te ngā ara hanga i tētahi papatono hangore, pakari hoki:
 - te whakamahi i ngā aratuka, ngā taumahi, ngā hātepe, ngā hohenga, ngā here me hanga whakamana kia whaikiko
 - te takitaki i ngā raraunga tāuru kia whaimana
 - te nanao tika i ngā tūāhua kawatau, tūāhua rohenga me ngā uara muhu
 - te whakamahi i ngā taimau, ngā taurangi me ngā uara pūhua hei whakakapi i ngā uara pūmau.
6. Ka kitea ngā Tikanga Aromatawai e hāngai ana ki tēnei paerewa paetae ki <http://ncea.tki.org.nz/Resources-for-Internally-Assessed-Achievement-Standard-s>.

Mōhiohio Whakahoutanga

He whakahoutanga tēnei paerewa paetae i te AS91075 me te AS91076.

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