

## Paerewa Paetae

<b>Aronga</b>	Pāngarau 1.2			
<b>Ingoa</b>	Te tūhura pūāhua tauanga, pūāhua tūpono			
<b>Kaupae</b>	1	<b>Whiwhinga</b>	5	<b>Aromatawai</b> Ā-roto
<b>Marau akoranga</b>	Te Marautanga o Aotearoa			
<b>Kokonga akoranga</b>	Pāngarau			
<b>Mana rēhita</b>			<b>Te rā i mana ai</b>	
<b>Te rā e arotakengia ai</b>			<b>Te rā i puta ai</b>	

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### Te Hononga ki te Marautanga

I ahu mai tēnei paerewa paetae i te Taumata 6 o *Te Marautanga o Aotearoa*, i whakaputaina e Te Tāhuhu o te Mātauranga i te tau 2017.

### Whāinga Paetae

*Te Tauanga, Te Tūponotanga*

3 *Ka tūhura pūāhua tūponotanga:*

- *ka whakatairite i ngā tuari tātai me ngā tuari whakamātau, me te aro anō ki te rahi o te tīpako;*
- *ka tātai tūponotanga i ngā pūāhua e whai wāhi mai ana te raraunga motumotu.*

E hono ana ki te Papa Whakaako mō Pāngarau kei te pae tukutuku nei:

<http://tmoa.tki.org.nz/Te-Marautanga-o-Aotearoa/Taumata-Matauranga-a-Motu-Ka-Taea>

### Te Hononga ki ngā Tikanga Aromatawai

Arā ngā Tikanga Aromatawai mō tēnei paerewa paetae, kei te:

<http://tmoa.tki.org.nz/Te-Marautanga-o-Aotearoa/Taumata-Matauranga-a-Motu-Ka-Taea>

## Paerewa Paetae

<p><b>Paetae</b> Te tūhura pūāhua tauanga, pūāhua tūpono.</p>	<p>Hei tohu i te paetae:</p> <ul style="list-style-type: none"> <li>• Ka whakamahi i ia wāhanga o ngā tikanga tūhuratanga tauanga hei whakaputa whakatairitenga.</li> <li>• Ka whakamahi i ngā huatau me ngā kupu e hāngai ana hei whakaatu i te mōhio ki te reo matatini o te pāngarau.</li> <li>• Ka whakamahi i te tukanga whakamātau tūponotanga.</li> </ul>
<p><b>Kaiaka</b> He kaiaka te tūhura pūāhua tauanga, pūāhua tūpono.</p>	<p>Hei tohu i te kaiaka:</p> <ul style="list-style-type: none"> <li>• Ko te parahau i ngā wāhanga o roto i ngā tikanga tūhuratanga tauanga te mea nui. Nō reira, ka kitea ēnei: <ul style="list-style-type: none"> <li>○ ka tūhono i ngā wāhanga o roto i ngā tikanga tūhuratanga tauanga ki te horopaki me te taupori, ki te reo Māori hoki.</li> <li>○ ka whakaputa kōrero taunaki, hei tauira: <ul style="list-style-type: none"> <li>▪ ko ngā tātaitanga tauanga whakarāpopoto pērā i te toharite me te tau waenga</li> <li>▪ ko ngā uara raraunga</li> <li>▪ ko ngā ia me ngā āhukatanga kōhure o roto i ngā whakaari raraunga</li> <li>▪ ka kōrero mō te horopaki me te taupori ki te reo Māori.</li> </ul> </li> </ul> </li> <li>• Ko te whakahāngai i te kaupapa ki tētahi pūāhua Māori me te tautohu i ngā tikanga Māori e whai take ana.</li> </ul>
<p><b>Kairangi</b> He kairangi te tūhura pūāhua tauanga, pūāhua tūpono.</p>	<p>Hei tohu i te kairangi:</p> <ul style="list-style-type: none"> <li>• Ko te whakaatu aroā tauanga hōhonu te mea nui. Nō reira, ka kitea ēnei: <ul style="list-style-type: none"> <li>○ ka kōtuitui i te mātauranga tauanga, te tūponotanga me te mārama ki te horopaki, i roto i ngā wāhanga katoa o te tūhuratanga tauanga, ki te reo Māori hoki</li> <li>○ ka arohaehae i te tukanga tauanga me ngā whakamārama e hāngai ana ki ngā whakakitenga</li> <li>○ ka whakaaroaro i te whai wāhi mai o ētahi atu taurangi, o ētahi atu āhukatanga rānei e whai pānga ana.</li> </ul> </li> <li>• Ko te whakahoropaki i te kaupapa ki tētahi pūāhua Māori me te tautohu i ngā tikanga Māori e whai take ana.</li> </ul>

## Kōrero Āpiti

- 1 E whai ake nei ngā whakamārama mō ngā kupu me ngā kīanga whaitake matua o te paerewa nei:

raraunga tau	<ul style="list-style-type: none"> <li>• He taurangi tau motukore, he taurangi tau motumotu rānei te taurangi <math>x</math>, arā te taurangi rāwekeweke.</li> <li>• He taurangi tau te taurangi <math>y</math>, arā te taurangi whakamauru, ā, ko tāna he whakaatu i te kaha o te hononga ki te taurangi <math>x</math>, te taurangi rāwekeweke.</li> </ul>
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- 2 Kia taunga te ākonga ki ngā tikanga o te tūhuratanga tauanga hei tūhura i tētahi huinga raraunga matatini, raraunga houanga hoki, arā:
- te whakahaere tūhura tauanga āmio e whai wāhi mai ana te raraunga tau matatini
  - te tūhura i ngā raraunga kua hua mai i tētahi tirohanga tauanga kē
  - te whakatakoto i tētahi pātai whakatairite e hāngai ana ki te huinga raraunga matatini
  - te whiriwhiri me te whakamahi i ngā whakaari raraunga e hāngai ana
  - te whakaputa i ngā tātaitanga tauanga whakarāpopoto pērā i te mōkito, te mōrahi, te tau waenga me ngā hauwhātanga
  - te whakawhiti kōrero hei whakatairite i ngā tuari raraunga, pērā i te hanga o ngā raraunga, ngā rohe hauwhātanga, te neke, te inaki, te hora o ngā raraunga, me ngā āhuetanga kōhure
  - te whakamārama i ngā whakakitenga, me te whai wāhi mai o te hīkaro ōpaki me ngā taunakitanga.
- 3 Kia taunga te ākonga ki te tukanga whakamātau tūponotanga, arā:
- te whakatakoto pātai tūponotanga hei tūhura
  - te whakamahere i tētahi whakamātau tūponotanga hei tūhura i te pūāhua (me te whakawhiti kōrero, te tautohu hoki i ngā putanga katoa e taea ana, me te rahi o te tīpako e tika ana)
  - te whakahaere i te whakamātau me te kohikohi i ngā raraunga
  - te whiriwhiri me te whakamahi i ngā momo whakaari raraunga, me te whai wāhi anō o te tuari whakamātau tūponotanga
  - te tautohu me te whakawhiti kōrero mō ngā tauira e kitea mai ana i ngā raraunga
  - te whakatairite tuari tātai motuhake me te tuari whakamātau e hāngai ana
  - te whakaputa kōrero mō ngā whakakitenga.
- 4 Horopaki Ahurea, Pāpori:

- Ka whātoro atu te pāngarau ki ērā atu wāhanga ako o te kura, otirā, ki ngā kaupapa me ngā horopaki huhua o te whānau, o te hapū, o te iwi, o te hapori, o te ao Māori, e ahu whakamua ai tātou i ēnei tū kaupapa katoa.
- Ko ngā tāngata e whakamahi ana i te pāngarau, ka kōtuitui i te mātauranga me ngā tukanga pāngarau ki te reo pāngarau me ngā horopaki pāngarau.
- Me kākahu anō ngā whāinga paetae ki nga momo horopaki e taunga ana te ākonga.
- Ki te mahi pāngarau ka whai tikanga i roto i te porihanga e whai pānga ana.
- He nui te honohono kei waenganui i te pāngarau me te ahurea.

5 Te reo matatini o te Pāngarau:

- Te whakamahi i te reo pāngarau e whaitake ana.
- Te whakamahi i ngā rautaki maha hei kōrerorero whakaaro pāngarau.

### Kuputaka

aroā tauanga hōhonu	statistical insight/understanding
kōtuitui	integrate, connect
parahau	justify
whakaari	displays/representations

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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 Ko ngā Kaituku Akoranga me ngā Whakahaere Whakangungu Ahumahi kua mana, ā, e aromatawai ana i ā rātou hōtaka ki ngā paerewa paetae, me uru rātou ki ngā pūnaha whakaōrite e tika ana mō aua paerewa paetae.

Ko te tohutoro ki te Mahere Whakamana, Whakaōritenga hoki

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