

Paerewa Paetae

Aronga	Pāngarau 1.1			
Ingoa	Te whakamahi whakaaro tau whaitake hei whakaoti rapanga			
Kaupae	1	Whiwhinga	6	Aromatawai Ā-roto
Marau akoranga	Te Marautanga o Aotearoa			
Kokonga akoranga	Pāngarau			
Mana rēhita			Te rā i mana ai	
Te rā e arotakengia ai			Te rā i puta ai	

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 Tau me te Taurangi, Te Mātauranga me ngā Rautaki Tau

- 1 *Ka whakamahi pānga rārangi, pānga rārangi hāngai, pānga rārangi kōaro hoki.*
- 2 *Ka whakawhānui taupū, kia hāngai ki ngā tau tōpū me ngā hautau.*
- 3 *Ka whakamahi pāpātanga whakaputu o ia rā.*
- 4 *Ka whakamahi rautaki tau ki te whiriwhiri otinga tino whaihua.*
- 5 *Ka mārama ki te whaitakenga o te otinga o tētahi rapanga.*

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>Paetae</p> <p>Te whakamahi whakaaro tau whaitake hei whakaoti rapanga.</p>	<p>Hei tohu i te paetae:</p> <ul style="list-style-type: none"> • Ka whiriwhiri, ka whakamahi i ētahi tikanga tau whānui e hāngai ana hei whakaoti rapanga. • Ka whakaatu mōhiotanga ki ngā huatau me ngā kupu pāngarau e hāngai ana. • Ka whakamārama i ngā otinga mēnā kotahi, e rua rānei ngā mahi o roto i te tikanga i whakamahia.
<p>Kaiaka</p> <p>He kaiaka te whakamahi whakaaro tau whaitake hei whakaoti rapanga.</p>	<p>Hei tohu i te kaiaka:</p> <ul style="list-style-type: none"> • Ko te whakaaro tūhonohono te mea nui. Arā, kia kotahi, nui ake rānei o ēnei: <ul style="list-style-type: none"> ○ ka whiriwhiri, ka whakatutuki i te raupapatanga mahi arorau hei whakaoti rapanga ○ ka tūhono i ētahi huatau rerekē, ētahi whakaahuahanga rerekē rānei ○ ka whakaatu māramatanga ki ngā huatau e hāngai ana ○ ka hanga, ka whakamahi tauira. • Ko te raupapatanga arorau o ōna whakaaro, āna whakamārama pāngarau ki te reo Māori. • Ko te whakahāngai i te kaupapa ki tētahi pūāhua Māori me te tautohu i ngā tikanga Māori e whai take ana.
<p>Kairangi</p> <p>He kairangi te whakamahi whakaaro tau whaitake hei whakaoti rapanga.</p>	<p>Hei tohu i te kairangi:</p> <ul style="list-style-type: none"> • Ko te whakaaro waitara te mea nui. Arā, kia kotahi, nui ake rānei o ēnei: <ul style="list-style-type: none"> ○ ka waihanga rautaki hei tūhura, hei whakaoti rānei i tētahi rapanga ○ ka tautohu i ngā huatau e hāngai ana ki te horopaki ○ ka whakaputa i tētahi raupapatanga whakaaro arorau, tētahi hāponotanga rānei ○ ka hanga whakawhānuitanga. • Ko te whakamahi kīanga pāngarau tika, te whakawhitiwhiti rānei i te aroā pāngarau ki te reo Māori. • Ko te whakahoropaki i te kaupapa ki tētahi pūāhua Māori me te tautohu i ngā tikanga Māori e whai take ana.

Kōrero Āpiti

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

rapanga	Ko ngā āhuratanga o ia rā, ngā āhuratanga pāngarau rānei, ka whai wāhi mai te whakamahinga o te mātauranga pāngarau, o ngā huatau pāngarau, o ngā tikanga pāngarau rānei.
ētahi tikanga tau whānui	Kia toru, nui ake rānei ngā tikanga.

- 2 Kia taunga te ākongā ki ngā tikanga e whai wāhi mai ana:

- te ōwehenga me te hautanga
- te tauwehe, te taurea, te taupū me te pūtake
- te taupū tōraro me te taupū hautanga o tētahi tau
- te hautau, te tau ā-ira me te ōrau
- te pāpātanga
- te whakaawhiwhinga, me te tohu anō i te maha o ngā mati ā-ira, te maha rānei o ngā mati whai tikanga
- te tānga ngahuru.

- 3 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 ākongā.
- 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.

- 4 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

whakaaro tau whitake	numeric reasoning
whakaaro tūhonohono	relational thinking
whakaaro waitara	abstract thinking

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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