



HE PUKAPUKA POUAKO

Te Pāngarau



KAUPAE 1

92067 | Te whakamahi tikanga taurangi hei whakaoti rapanga.

(Ngā Whiwhinga: E 5)

92068 | Te tautohu i ngā āhuatanga matua o te kaitiakitanga me te hononga ki te oranga.

(Ngā Whiwhinga: E 5)

Te Rā Tuku Aromatawai ā-Waho: Te Wāhanga 4 – Te 29 o Oketopa, 2025.

NZQA

Mana Tohu Mātauranga o Aotearoa
New Zealand Qualifications Authority

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He Kete Manarua

Ko te **KETE** i pū mai i te pā harakeke, ā, he whakapapa tōna.

He **MANA** tōna, ā, e **RUA** hoki ōna āhuatanga. Ko ngā taonga tuku iho ka kohikohia e te ākongā, ka tahi. Ka rua, ko te whakapiki i te mana motuhake o te ākongā, o ōna hapū, o ōna iwi hoki.

He tāpaetanga ā-matihiko te āhua o te **KETE MANARUA** ka tukuna mai e te kura, ā, he kōpaki, he kiriata, he kōrero ā-waha, he rauata, he tuhinga, he pūrongo, he whakaaturanga, he rātaka, he mahi rangahau, he aha atu, he aha atu ngā momo tāpaetanga.



Ngā Tūmahi Aromatawai ā-Waho

He tauira ngā Tūmahi Aromatawai ā-waho e whai ake nei hei kōwhiringa mā te Pouako. Ka whakamahia rānei, ka whakarite Tūmahi Aromatawai ā-Waho anō rānei, kei te Pouako te tikanga.

He tāmiro te āhua o te Kete Manarua nei. He hono i ngā taunakitanga o te Paerewa Paetae 92067 me ngā taunakitanga o te Paerewa Paetae 92068 ki raro i te kaupapa kotahi.



“Ka mate kāinga tahi, ka ora kāinga rua”

I mua i te pakanga tuarua o te ao, e 80% o ngāi Māori e noho ana ki ngā papakāinga ki roto i ngā roherohenga katoa o Aotearoa. I ngā tau 1920 ka tīmata ngā tūpuna Māori ki te nukunuku haere ki ngā tāone nui ki te whai pūtea, ki te whai i tētehi ao hou. Tae rawa ake ki te tau 1986, e 80% o ngāi Māori i puta i ngā tāone iti, i ngā papakāinga, ki ngā tāone nui.

Ko te tangata kāinga kore tētehi ō tātou ao, ā, he pānga nui tēnei ki ngā tāngata o Aotearoa nei. E ai ki ngā tauranga o te tau 2024, e rahi ake ana i te 2% o Aotearoa e noho kāinga kore ana, ā, kua tuawhitu a Aotearoa mō te noho kāinga kore i te ao. E tata ana ki te 107,000 ngā tāngata e noho pēnei ana.

Ko te whāinga nui o te aromatawai nei, ko te rangahau i ngā āhuatanga o te papakāinga i tō roherohenga, me ngā āhuatanga o te noho kāinga kore. I te rangahau nei, ka hoahoatia te āhua o tētahi whare iti hei manaaki i ngā tāngata, i ngā whānau anō hoki.

Ka whakarite pātai tūhuratanga e taurangi ana, ā, ka whakamahi i ngā tikanga o te taurangi hei whakaoti i ō pātai.



Ngā pātai rangahau

1. He aha ngā kōrero tuku iho, ngā kōrero ā-iwi rānei mō ngā papakāinga i tō iwi, i tō hapū rānei?
2. He aha ngā āhuatanga o te papakāinga, i roto i tō hapori, i te wā o ngā tūpuna Māori?
3. He aha ngā tūpuna Māori i wehewehe ai i ngā pā, i ngā papakāinga rānei?
4. He āhuatanga kāinga kore rānei i tō hapori?
5. He aha ngā aupiki, ngā auheke rānei o ngā papakāinga?
6. He aha ngā ture, ngā tikanga rānei o te hanga whare iti?
7. He aha ngā inenga hei hanga whare iti i ngā wā o mua, i ēnei wā rānei?
8. He aha ngā taputapu taketake, ngā taputapu o ēnei rā rānei hei hanga whare iti?

Te tūmahi tuatahi

Me whakatakoto koe i ētahi pātai tūhuratanga e taurangi ana, e hāngai ana ki te hanga whare, me ngā āhuatanga o te noho kāinga kore.

1. He aha ngā āhuatanga pai katoa o te whare iti?
 - Te horahanga pai?
 - Ngā ahunga pai?
 - Tōna hanga? Me tapawhā, me tapa kē rānei?
 - Te hoahoa (o te tuanui) pai? Te tapatoru, te ōwehenga pākoki?
2. He aha te tapeke o te roa o ngā wahie?
 - Ngā anga pātū
 - Te koropū
 - Ngā nēra
 - Ngā matapihi
3. He aha te utu mō ngā rawa o te hanga whare iti?

Te tūmahi tuarua

Me whakamahi koe i ngā pātai hei whakarite i tō huarahi whakautu.

Te tūmahi tuatoru

Me whakamahi koe i ngā tikanga taurangi hei whakautu i ō pātai tūhuratanga.

He rauemi tautoko

[Sketch it program](#)

[Te Matapihi](#)

MĀTĀPUNA

Cover Page: Advance Build. Papakāinga housing. Retrieved January 29, 2025, from <https://advancebuild.co.nz/papakāinga/>



Te Pāngarau

92067 Te whakamahi tikanga taurangi hei whakaoti rapanga

(Te Kaupae 1, Ngā Whiwhinga: E 5)

Kairangi	Kaiaka	Paetae
Hei tohu i te kairangi: Ka whakamahi tikanga taurangi me ngā whakaaro waitara hei whakaoti rapanga.	Hei tohu i te kaiaka: Ka whakamahi tikanga taurangi me ngā whakaaro tūhonohono hei whakaoti rapanga.	Hei tohu i te paetae: Ka whakamahi tikanga taurangi hei whakaoti rapanga.

Te Paerewa Paetae

Tau AS92067 **Putanga** 3 **Whārangi** 1 o te 4

Paerewa Paetae

Aronga	Pāngarau 1.3		
Ingoa	Te whakamahi tikanga taurangi hei whakaoti rapanga		
Kaupae	1	Whiwhinga	5
		Aromatawai	Ā-waho
Marau akoranga	Te Marautanga o Aotearoa		
Kokonga akoranga	Pāngarau		
Mana rēhita	Kua rēhitatia	Te rā i mana ai	Hakihea 2023
Te rā e arotakengia ai	Hakihea 2028	Te rā i puta ai	Hakihea 2023

Te Whāinga

Ko tā tēnei paerewa he whakamahi tikanga taurangi hei whakaoti rapanga. Ko te pūtake o te taurangi, he tūāpapa mō ngā tohu mātauranga nui, ka whaitake ki ngā rāngai huhua.

Paearu Paetae

Paetae	Hei tohu i te paetae: <ul style="list-style-type: none"> Ka whakamahi tikanga taurangi hei whakaoti rapanga.
Kaiaka	Hei tohu i te kaiaka: <ul style="list-style-type: none"> Ka whakamahi tikanga taurangi me ngā whakaaro tūhonohono hei whakaoti rapanga.
Kairangi	Hei tohu i te kairangi: <ul style="list-style-type: none"> Ka whakamahi tikanga taurangi me ngā whakaaro waitara hei whakaoti rapanga.

Kōrero Āpiti

- 1 I ahu mai tēnei paerewa paetae i te Taumata 6 o Te Marautanga o Aotearoa (Te Tāhuhu o te Mātauranga, 2017). E hono ana ki te Papa Whakaako mō Pāngarau kei: <https://ncea.education.govt.nz>.

Whāinga Paetae

Te Tau me te Taurangi, Te Whārite me te Kīanga

6. Ka tuhi, ka whakaoti whārite rārangi, tōrite rārangi, whārite pūrua, whārite taupū māmā, whārite tukutahi, kia rua ngā taurangi.

Te Tau me te Taurangi, Te Pānga me te Taurira

7. Ka whakawhānui i ngā tikanga paheko tau, me ngā tikanga taupū.

2 E whai ake nei ngā whakamārama mō ngā paearu paetae:

<p><i>Ka whakamahi tikanga taurangi hei whakaoti rapanga.</i></p>	<ul style="list-style-type: none"> • Ka whiriwhiri, ka whakamahi i ētahi tikanga taurangi whānui e hāngai ana hei whakaoti rapanga. • Ka whakaatu i ngā hononga o te tūtohi, te whārite me te kauwhata. • Ka whakaatu mōhiotanga ki ngā huatau me ngā kupu e hāngai ana. • Ka whakamārama i ngā otinga mēnā kotahi, e rua rānei ngā mahi o roto i te tikanga i whakamahia. • Ka whakamahi i te reo matatini o te pāngarau hei whakawhitiwhiti whakaaro.
<p><i>Ka whakamahi tikanga taurangi me ngā whakaaro tūhonohono hei whakaoti rapanga.</i></p>	<p>Ko te whakaaro tūhonohono te mea nui. Arā, kia kotahi, nui ake rānei o ēnei:</p> <ul style="list-style-type: none"> • Ka whiriwhiri, ka whakatutuki raupapatanga mahi arorau hei whakaoti rapanga. • Ka tūhonoa ētahi huatau rerekē, ētahi whakaahuahanga rerekē rānei. • Ka whakaatu māramatanga ki ngā huatau e hāngai ana. • Ka hanga, ka whakamahi tauira. • Ka whakahāngai i te kaupapa ki tētahi pūāhua Māori me te tautohu i ngā tikanga Māori e whaitake ana. • Ka tūhono i ngā otinga ki te horopaki o te rapanga, ka whakamahi rānei i ngā kīanga pāngarau hei whakawhitiwhiti whakaaro ki te reo Māori.

<p><i>Ka whakamahi tikanga taurangi me ngā whakaaro waitara hei whakaoti rapanga.</i></p>	<p>Ko te whakaaro waitara te mea nui. Arā, kia kotahi, nui ake rānei o ēnei:</p> <ul style="list-style-type: none"> • Ka waihanga rautaki hei tūhura, hei whakaoti rānei i tētahi rapanga. • Ka tautohua ngā huatau e hāngai ana ki te horopaki. • Ka whakaputaina tētahi raupapatanga whakaaro arorau, tētahi hāponotanga rānei. • Ka whakahoropaki i te kaupapa ki tētahi pūāhua Māori me te tautohu i ngā tikanga Māori e whaitake ana. • Ka whakamahi kīanga pāngarau tika, ka whakawhitiwhiti rānei i te aroā pāngarau ki te reo Māori.
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- 3 E whai ake nei ngā whakamārama mō ngā kupu me ngā kīanga whaitake matua o te paerewa nei:

<p><i>rapanga</i></p>	<p>Ko ngā āhukatanga o ia rā, ngā āhukatanga pāngarau rānei, ka whai wāhi mai te whakamahinga o te mātauranga pāngarau, o ngā huatau pāngarau, o ngā tikanga pāngarau rānei.</p>
<p><i>hononga</i></p>	<p>Ko ngā āhukatanga e hono ana i te tūtohi, te whārite me te kauwhata e whakaatu ana i ētahi taurangi, me te whakaatu anō i ngā taurangi hei takirua raupapa.</p>
<p><i>ētahi tikanga taurangi whānui</i></p>	<p>Kia toru, nui ake rānei ngā tikanga.</p>

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

- te whakatauwehe kīanga taurangi
- te whakawhānui kīanga taurangi
- te whakarūnā i ngā kīanga taurangi e whai wāhi mai ana te taupū, pērā i te $(2x^4)^3$ me te $12a^5/8a^7$
- te whakauru uara ki te ture tātai
- te rāwekeweke me te whakarūnā i ngā kīanga pērā i te $3x/4 - x+2/3$ me te $(3x^2 - 12)/x - 2$
- te huri i ngā ture tātai pērā i te $E = 1/2mv^2$ me te $1/u + 1/v = 1/f$
- te whakaoti whārite rārangi, tōrite rārangi hoki, pērā i te $5x + 12 = 3 - 2x$ me te $3(x - 2) < 7$
- te whakaoti whārite pūrua pērā i te $(8x + 3)(x - 6) = 0$, te $x^2 + 5x - 6 = 0$ me te $3x^2 = 10x - 8$ (kāore e whai wāhi mai te whakaoti pūruatanga, te ture pūrua rānei)
- te whakaoti whārite māmā e whai wāhi mai ana te taupū, pērā i te $x^3 = 8$ me te $5x = 125$
- te whakaoti whārite rārangi tukutahi, e rua ngā taurangi

- te whakamahi ture tātai
 - te hanga, te tuhi kauwhata, me te rāwekeweke i ngā whārite rārangi, pērā i te $E = 8 + 0.75t$, hei whakaoti rapanga
 - te tūhono i te pāpātanga o te whiti ki te rōnaki o te kauwhata
 - te whakamahi whārite tukutahi, tōrite, kauwhata rānei hei whakaoti rapanga e whai wāhi mai ana te pānga rārangi
 - Kāore e whakaaetia te hangarau tāhiko i roto i ngā aromatawai mō tēnei paerewa paetae.
- 5 Me honohono te ākonga i ngā whakaaro whānui ki ngā pūāhua ahurea, ki ngā pūāhua pāpori (He Uri Whakaheke):
- ki te tautohu i ngā uara, i ngā kawa me ngā tikanga
 - ki te tautohu i ngā kōrero tuku iho, i te mātauranga Māori
 - ki te tūhono i te pāngarau ki ngā take o te takiwā, o te hapū, o te iwi, me ngā kaupapa o te ao whānui.
- 6 Me whakamahi te ākonga i te reo matatini o te pāngarau me ngā rautaki reo maha (He Puna Kōrero) ki te kōrerorero i ngā whakaaro pāngarau nei ki te reo Māori – ā-tuhi, ā-waha, ā-ataata.
- 7 Arā ngā Tikanga Aromatawai mō tēnei paerewa paetae, kei: <https://ncea.education.govt.nz>.
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Kōrero Whakakapinga

I whakakapingia ngā paerewa 91655-91656 e ngā paerewa 92065-92068.

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

0233

Te Tautuhinga Aromatawai ā-Waho



Te Paerewa Paetae	92067
Te Ingoa o te Paerewa Paetae	Te whakamahi tikanga taurangi hei whakaoti rapanga
Ngā whiwhinga	E 5
Te Marau	Te Marautanga o Aotearoa: Pāngarau
Te Wāhanga Ako	Te Tukutuku Ako
Te Tukanga Aromatawai ā-Waho	He Kete Manarua
Te Momo Tāpaetanga ā-Matihiko	He konae tuhituhi - PDF (5 - 20 whārangi) He kiriata - mp4 avi mov m4v (5GB)
Te Rā Tuku Aromatawai ā-Waho	Te Wāhanga 4 – Te 29 o Oketopa, 2025
Ngā Wātaka 2025	1. Te Wātaka Whakamātautau 2025 2. Te Wātaka Aromatawai ā-Waho 2025

Te Whakatakotoranga Aromatawai ā-Waho

Ka whakaritea e te ākonga tētahi Kete Manarua mō āna mahi kua kohikohia, kua whakaraupapahia hoki e ia, tae noa atu ki te rā aukati.

Ka whakamahi te ākonga i te whakaaro taurangi i ngā āhuetanga o ia rā, tae atu ki ngā kaupapa me ngā horopaki huhua o te ao Māori, hei whakaoti rapanga. Ka tāpaea e te ākonga ēnei mahi hei taunakitanga kua puta māori mai i ngā kawenga e pā ana ki ngā āhuetanga maha o ia rā.

E whakaatu ana te Kete Manarua i ngā taunakitanga nei:

- i te tuhi, i te whakaoti whārite rārangi, i te tōrite rārangi, i te whārite pūrua, i te whārite taupū māmā, i te whārite tukutahi
- i te whakawhānui i ngā tikanga paheko tau me ngā tikanga taupū.

Anei ētahi taurira mō te Kete Manarua:

- he whakaaturanga me ētahi kōrero whakamārama (kia iti iho i ngā whārangi e 6)
- he kohinga whakaahua me ētahi kōrero whakamārama
- he kiriata (e 2-3 meneti)
- t/ētahi atu tūmahi aromatawai.

Tēnā tirohia te Kete Manarua i te paetukutuku nei - [He Kete Manarua](#)

E whakaatu ana te Kete Manarua i t/ētahi taurira hei kōwhiringa mā te kaiako. Mā te kaiako tonu e whiriwhiri mēnā rānei ka whakamahia te/ngā taurira nei, ka whakamahia rānei he mahi whakaharatau, ka whakaritea rānei he Tūmahi Aromatawai anō.

Ngā Herenga Aromatawai ā-Waho

He mahi takitahi tēnei mahi me te whakatakoto taunakitanga mō te aromatawai ā-waho mā te ākongā. Kia tutuki pai ai te Kete Manarua ā-matihiko nei:

- me whakaputa hei PDF;
- me noho te rahinga tuari ki raro i te 5GB e pai ai te tārewatanga o ngā mahi ki te Online Digital Submission Portal;
- me tika te whakaraupapatanga o ngā mahi;
- me tika te whakatakotoranga o ngā mahi (kia kaua e noho tītaha, e huripoki rānei);
- me tāmāu te kiriata ki te tītohunga ata, otirā, kāore e whakaaetia ana te tukunga o te honongaitua i tōna kotahi.

[Using the new digital submission portal.](#)

Te Motuhēhē o ngā mahi o ngā ākongā

Me pēhea e mōhiotia ai te motuhēhē o ngā mahi a ngā ākongā? He tukanga, he taunakitanga me whai, e mōhiotia ai nā te ākongā ake āna mahi aromatawai. Kia mataara ngā ākongā, ngā kaiako me te whānau hoki o te kura ki te motuhēhē o ngā mahi a ngā ākongā.

He māmā noa iho te tiki mahi a tangata kē, heoi, mā te mihi e whakaatu, e whakanui hoki i ngā tāngata me ngā puna awhina i puta ai ngā mahi a ngā ākongā.

Hei tauira:

- He rerenga kupu poto e tohu ana i te pūtakenga mai o tētahi kōrero;
- He rārangi tohutoro i te whārangi whakamutunga o ngā mahi;
- He mihi ki ngā puna āwhina, ki ngā puna kōrero;
- Ngā momo puna awhina, puna kōrero rānei:
 - » he kōrero ā-waha: he uiui i ngā kaumātua, i ngā pakeke, i ngā rangatira, i ngā mātanga rānei;
 - » ngā pukapuka i whakaputaina;
 - » ngā pukapuka kāore anō i whakaputaina;
 - » ngā wāhitau ipurangi, ngā honongaitua rānei.

He kōrero anō kei ngā paetukutuku NZQA:

- [Authenticity: NZQA](#)
- [Myth 3 Managing authenticity: NZQA](#)
- [Authenticity of externally assessed standards: NZQA](#)
- [Guidance on the acceptable use of Artificial Intelligence: NZQA](#)

Te Tāpaetanga me te Hāponotanga

Ko ngā tāpaetanga Kete Manarua me mahi mā te pūnaha hou (kei te paetukutuku matua o MyNZQA): Tāpaetanga pūnaha hou a NZQA.

Kāore te Kete Manarua matihiko e whakahokia ki te ākongā. Mēnā he kōrero anō mō te tāpaetanga me te hāponotanga o te mahi, mā te tari o NZQA e pānui atu ki ngā kura.

Mēnā kei te hiahia āwhina te kura ki te tuku i ngā tāpaetanga o te Kete Manarua:

- Īmērahia a assessment.servicecentre@nzqa.govt.nz,
- waeahia rānei te NZQA Contact Centre i te 0800 687 296.

He Mahere Aromatawai ā-Waho

Pāngarau 92067: Te whakamahi tikanga taurangi hei whakaoti rapanga.

Kairangi	Kaiaka	Paetae
Ka whakamahi tikanga taurangi me ngā whakaaro waitara hei whakaoti rapanga.	Ka whakamahi tikanga taurangi me ngā whakaaro tūhonohono hei whakaoti rapanga.	Ka whakamahi tikanga taurangi hei whakaoti rapanga

Te Taunaki i te Aromatawai ā-Waho

Kairangi	Kaiaka	Paetae
<p>Ko te whakaaro waitara te mea nui. Arā, kia kotahi, nui ake rānei o ēnei ka whakamahi tikanga taurangi.</p> <ul style="list-style-type: none"> • Ka waihanga rautaki hei tūhura, hei whakaoti rānei i tētahi rapanga. • Ka tautohua ngā huatau e hāngai ana ki te horopaki. • Ka whakaputaina tētahi raupapatanga whakaaro arorau, tētahi hāponotanga rānei. • Ka whakahoropaki i te kaupapa ki tētahi pūāhua Māori me te tautohu i ngā tikanga Māori e whaitake ana. • Ka whakamahi kīanga pāngarau tika, ka whakawhitiwhiti rānei i te aroā pāngarau ki te reo Māori. 	<p>Ko te whakaaro tūhonohono te mea nui. Arā, kia kotahi, nui ake rānei o ēnei ka whakamahi tikanga taurangi.</p> <ul style="list-style-type: none"> • Ka whiriwhiri, ka whakatutuki raupapatanga mahi arorau hei whakaoti rapanga. • Ka tūhonoa ētahi huatau rerekē, ētahi whakaahuahanga rerekē rānei. • Ka whakaatu māramatanga ki ngā huatau e hāngai ana. • Ka hanga, ka whakamahi tauira. • Ka whakahāngai i te kaupapa ki tētahi pūāhua Māori me te tautohu i ngā tikanga Māori e whaitake ana. • Ka tūhono i ngā otinga ki te horopaki o te rapanga, ka whakamahi rānei i ngā kīanga pānga 	<p>Ka whakamahi tikanga taurangi hei whakaoti rapanga.</p> <ul style="list-style-type: none"> • Ka whiriwhiri, ka whakamahi i ētahi tikanga taurangi whānui e hāngai ana hei whakaoti rapanga. • Ka whiriwhiri, ka whakamahi i ētahi tikanga taurangi whānui e hāngai ana hei whakaoti rapanga. • Ka whakaatu i ngā hononga o te tūtohi, te whārite me te kauwhata. • Ka whakaatu mōhioatanga ki ngā huatau me ngā kupu e hāngai ana. • Ka whakamārama i ngā otinga mēnā kotahi, e rua rānei ngā mahi o roto i te tikanga i whakamahia

Kairangi	Kaiaka	Paetae
<p>Hei Tauira</p> <ul style="list-style-type: none"> • Ka whakaritea he pātai tūhuratanga taurangi e hāngai ana ki te kaupapa • Ka rangahaua ngā āhuratanga o te kaupapa (Te Papa Kainga) <ul style="list-style-type: none"> » Kōrero tuku iho » Kōrero-ā-lwi, Hapū » Tukanga • Ka whakamahi tikanga taurangi hei whakautu i te pātai tūhuratanga <ul style="list-style-type: none"> » te whakaoti whārite rārangi » te whakawhānui kianga » te whakawhānui whārite pūrua » te whakamahi tikanga whakauru » te tuhi, te whakaoti whārite rārangi, tōrite rārangi, whārite pūrua, whārite taupū māmā, whārite tukutahi » te whakawhānui i ngā tikanga pāheko tau me ngā tikanga taupū. 	<p>Hei Tauira</p> <ul style="list-style-type: none"> • Ka whakaritea he pātai tūhuratanga taurangi e hāngai ana ki te kaupapa • Ka rangahaua ngā āhuratanga o te kaupapa <ul style="list-style-type: none"> » Kōrero tuku iho » Kōrero-ā-lwi, Hapū » Tukanga • Ka whakamahi tikanga taurangi hei whakautu i te pātai tūhuratanga <ul style="list-style-type: none"> » te whakaoti whārite rārangi » te whakawhānui kianga » te whakawhānui whārite pūrua » te whakamahi tikanga whakauru 	<p>Hei Tauira</p> <ul style="list-style-type: none"> • Ka whakaritea he pātai tūhuratanga taurangi e hāngai ana ki te kaupapa • Ka whakamahi tikanga taurangi hei whakautu i te pātai tūhuratanga <ul style="list-style-type: none"> » te whakaoti whārite rārangi » te whakawhānui kianga » te whakawhānui whārite pūrua » te whakamahi tikanga whakauru

Taunakitanga

Taunakitanga Kairangi		Taunakitanga Kaiaka		Taunakitanga Paetae		Taunakitanga Kāore i whiwhi	
K8	K7	KA6	KA5	P4	P4	Kwh2	Kwh1



Te Pāngarau

92068 Te whakamahi whakaaro āhuahanga, whakaaro ine
hei whakaoti rapanga

(Te Kaupae 1, Ngā Whiwhinga: E 5)

Kairangi	Kaiaka	Paetae
Hei tohu i te kairangi: Ka whakamahi whakaaro āhuahanga, whakaaro ine mā roto mai i ngā whakaaro waitara hei whakaoti rapanga.	Hei tohu i te kaiaka: Ka whakamahi whakaaro āhuahanga, whakaaro ine mā roto mai i ngā whakaaro tūhonohono hei whakaoti rapanga.	Hei tohu i te paetae: Ka whakamahi whakaaro āhuahanga, whakaaro ine hei whakaoti rapanga.

Te Paerewa Paetae

Tau AS92068 Putanga 3 Whārangī 1 o te 4

Paerewa Paetae

Aronga	Pāngarau 1.4		
Ingoa	Te whakamahi whakaaro āhuahanga, whakaaro ine hei whakaoti rapanga		
Kaupae	1	Whiwhinga	5
		Aromatawai	Ā-waho
Marau akoranga	Te Marautanga o Aotearoa		
Kokonga akoranga	Pāngarau		
Mana rēhita	Kua rēhitatia	Te rā i mana ai	Hakihea 2023
Te rā e arotakengia ai	Hakihea 2028	Te rā i puta ai	Hakihea 2023

Te Whāinga

Ko tā tēnei paerewa he whakamahi whakaaro āhuahanga, whakaaro ine hei whakaoti rapanga. Ko te pūtake o tēnei paerewa he tautoko i ngā ākonga ki te waihanga pūkenga kia taea ai te whakaoti rapanga mō te ine me te āhuahanga.

Paearu Paetae

Paetae	Hei tohu i te paetae: <ul style="list-style-type: none"> • Ka whakamahi whakaaro āhuahanga, whakaaro ine hei whakaoti rapanga.
Kaiaka	Hei tohu i te kaiaka: <ul style="list-style-type: none"> • Ka whakamahi whakaaro āhuahanga, whakaaro ine mā roto mai i ngā whakaaro tūhonohono hei whakaoti rapanga.
Kairangi	Hei tohu i te kairangi: <ul style="list-style-type: none"> • Ka whakamahi whakaaro āhuahanga, whakaaro ine mā roto mai i ngā whakaaro waitara hei whakaoti rapanga.

Kōrero Āpiti

- 1 I ahu mai tēnei paerewa paetae i te Taumata 6 o Te Marautanga o Aotearoa (Te Tāhuhu o te Mātauranga, 2017). E hono ana ki te Papa Whakaako mō Pāngarau kei: <https://ncea.education.govt.nz>.

Whāinga Paetae

Te Ine me te Āhuatanga, Te Hanga

4. Ka whakaputa, ka whakamahi i ngā tikanga koki o te porowhita.
5. Ka aro ki ngā āhua ōrite, ā, ka whakamahi whakaaro pānga riterite hei tātai i tētahi tapa.
6. Ka whakamahi ōwehenga pākoki me te ture a Pythagoras, i ngā pūāhua ahu-2, ahu-3 hoki.

2 E whai ake nei ngā whakamārama mō ngā paearu paetae:

<p><i>Ka whakamahi whakaaro āhuahanga, whakaaro ine hei whakaoti rapanga.</i></p>	<ul style="list-style-type: none"> • Ka whiriwhiri, ka whakamahi i ētahi tikanga whānui hei whakaoti rapanga. • Ka whakaatu mōhiohio ki ngā huatau ine/āhuahanga me ngā kupu e hāngai ana. • Ka whakamārama i ngā otinga mēnā kotahi, e rua rānei ngā mahi o roto i te tikanga i whakamahia. • Ka whakamahi kupu āhuahanga/ine, whakaahuahanga rānei hei whakamārama i ngā otinga.
<p><i>Ka whakamahi whakaaro āhuahanga, whakaaro ine mā roto mai i ngā whakaaro tūhonohono hei whakaoti rapanga.</i></p>	<p>Ko te whakaaro tūhonohono te mea nui. Arā, kia kotahi, nui ake rānei o ēnei:</p> <ul style="list-style-type: none"> • Ka whiriwhiri, ka whakatutuki i te raupapatanga mahi arorau e hāngai ana. • Ka tūhono i ētahi huatau rerekē, ētahi whakaahuahanga rerekē rānei. • Ka whakaatu māramatanga ki ngā huatau e hāngai ana. • Ka hanga, ka whakamahi tauira. • Ka tūhono i ngā otinga ki tētahi horopaki, ka whakamahi rānei i ngā kīanga pāngarau hei whakawhitiwhiti whakaaro ki te reo Māori. • Ka whakahāngai i te kaupapa ki tētahi pūāhua Māori me te tautohu i ngā tikanga Māori e whaitake ana.
<p><i>Ka whakamahi whakaaro āhuahanga, whakaaro ine mā roto mai i ngā whakaaro waitara hei whakaoti rapanga.</i></p>	<p>Ko te whakaaro waitara te mea nui. Arā, kia kotahi, nui ake rānei o ēnei:</p> <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.

	<ul style="list-style-type: none"> • Ka whakamahi kīanga pāngarau tika, ka whakawhitiwhiti rānei i te aroā pāngarau ki te reo Māori. • Ka whakahoropaki i te kaupapa ki tētahi pūāhua Māori me te tautohu i ngā tikanga Māori e whaitake ana.
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- 3 E whai ake nei ngā whakamārama mō ngā kupu me ngā kīanga whaitake matua o te paerewa nei:

<i>rapanga</i>	Ko ngā āhuatanga o ia rā, ngā āhuatanga pāngarau rānei, ka whai wāhi mai te whakamahinga o te mātauranga pāngarau, o ngā huatau pāngarau, o ngā tikanga pāngarau rānei.
<i>ētahi tikanga whānui</i>	Kia toru, nui ake rānei ngā tikanga.

- 4 Kia taunga te ākonga ki ngā tikanga e whai wāhi mai ana:
- te ture a Pythagoras
 - ngā pānga pākoki o te tapatoru hāngai
 - ngā taparau he ōrite te āhua
 - ngā hononga koki o te rārangi pūtahi me te rārangi whakarara
 - ngā hononga koki o ngā momo taparau
 - ngā hononga koki o te porowhita
 - te roa, te paenga, te horahanga me te horahanga mata, te rōrahi
 - ngā waeine ngahuru
 - te kītanga, te papatipu, te paemahana me te wā
 - ngā waeine pāpātanga pērā i ērā mō te kiato, te tere, te utu ā-waeine me te whakapau kōhinu.
- 5 Me honohono te ākonga i ngā whakaaro whānui ki ngā pūāhua ahurea, ki ngā pūāhua pāpori (He Uri Whakaheke):
- ki te tautohu i ngā uara, i ngā kawa me ngā tikanga
 - ki te tautohu i ngā kōrero tuku iho, i te mātauranga Māori
 - ki te tūhono i te pāngarau ki ngā take o te takiwā, o te hapū, o te iwi, me ngā kaupapa o te ao whānui.
- 6 Me whakamahi te ākonga i te reo matatini o te pāngarau me ngā rautaki reo maha (He Puna Kōrero) ki te kōrerorero i ngā whakaaro pāngarau nei ki te reo Māori – ā-tuhi, ā-waha, ā-ataata.
- 7 Arā ngā Tikanga Aromatawai mō tēnei paerewa paetae, kei: <https://ncea.education.govt.nz>.

8 Kuputaka

whakaaro tūhonohono	<i>relational thinking</i>
whakaaro tūhonohono	<i>abstract thinking</i>

Kōrero Whakakapinga

I whakakapingia ngā paerewa 91655-91656 e ngā paerewa 92065-92068.

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 0233

Te Tautuhinga Aromatawai ā-Waho



Te Paerewa Paetae	92068
Te Ingoa o te Paerewa Paetae	Te whakamahi whakaaro āhuahanga, whakaaro ine hei whakaoti rapanga
Ngā whiwiringa	E 5
Te Marau	Te Marautanga o Aotearoa: Pāngarau
Te Wāhanga Ako	Te Tukutuku Ako
Te Tukanga Aromatawai ā-Waho	He Kete Manarua
Te Momo Tāpaetanga ā-Matihiko	He konae tuhituhi - PDF (5 - 20 whārangi) He kiriata - mp4 avi mov m4v (5GB)
Te Rā Tuku Aromatawai ā-Waho	Te Wāhanga 4 – Te 29 o Oketopa, 2025
Ngā Wātaka 2025	1. Te Wātaka Whakamātautau 2025 2. Te Wātaka Aromatawai ā-Waho 2025

Te Whakatakotoranga Aromatawai ā-Waho

Ka whakaritea e te ākonga tētahi Kete Manarua mō āna mahi kua kohikohia, kua whakaraupapahia hoki e ia, tae noa atu ki te rā aukati.

Ka whakamahi te ākonga i te whakaaro āhuahanga me te ine i ngā āhuatanga o ia rā, i ngā kaupapa me ngā horopaki huhua o te ao Māori hei whakaoti rapanga.

E whakaatu ana te Kete Manarua i ngā taunakitanga nei:

- i ngā tikanga koki o te porowhita
- i ngā āhua ōrite, i ngā whakamahinga whakaaro pānga riterite hei tātari i tētahi tapa
- i te ōwehenga pākoki me te ture a Pythagoras, i ngā pūāhua ahu-rua, ahu-toru hoki
- i te paenga, i te horahanga me te horahanga mata, i te rōrahi, me ngā waeine ngahuru.

Anei ētahi tauira mō te Kete Manarua:

- he whakaaturanga me ētahi kōrero whakamārama (kia iti iho i ngā whārangi e 6)
- he kiriata (e 2-3 meneti)
- he kohinga whakaahua me ētahi kōrero whakamārama
- t/ētahi atu tūmahi aromatawai.

Ko te reo matatini o te Pāngarau te huarahi matua e mārama ai te ākonga ki ngā ariā pāngarau, e whakawhitiwhiti kōrero ai, e eke panuku ai hoki ngā mahi a te ākonga.

Tēnā tirohia te Kete Manarua i te paetukutuku nei - [He Kete Manarua](#)

E whakaatu ana te Kete Manarua i t/ētahi tauira hei kōwhiringa mā te kaiako. Mā te kaiako

tonu e whiriwhiri mēnā rānei ka whakamahia te/ngā tauira nei, ka whakamahia rānei he mahi whakaharatau, ka whakaritea rānei he Tūmahi Aromatawai anō.

Ngā Herenga Aromatawai ā-Waho

He mahi takitahi tēnei mahi me te whakatakoto taunakitanga mō te aromatawai ā-waho mā te ākonga. Kia tutuki pai ai te Kete Manarua ā-matihiko nei:

- me whakaputa hei PDF;
- me noho te rahinga tuari ki raro i te 5GB e pai ai te tārewatanga o ngā mahi ki te Online Digital Submission Portal;
- me tika te whakaraupapatanga o ngā mahi;
- me tika te whakatakotoranga o ngā mahi (kia kua e noho tītaha, e huripoki rānei);
- me tāmau te kiriata ki te tītohunga ata, otirā, kāore e whakaaetia ana te tukunga o te honongaitua i tōna kotahi.

[Using the new digital submission portal.](#)

Te Motuhēhē o ngā mahi o ngā ākonga

Me pēhea e mōhiotia ai te motuhēhē o ngā mahi a ngā ākonga? He tukanga, he taunakitanga me whai, e mōhiotia ai nā te ākonga ake āna mahi aromatawai. Kia mataara ngā ākonga, ngā kaiako me te whānau hoki o te kura ki te motuhēhē o ngā mahi a ngā ākonga.

He māmā noa iho te tiki mahi a tangata kē, heoi, mā te mihi e whakaatu, e whakanui hoki i ngā tāngata me ngā puna awhina i puta ai ngā mahi a ngā ākonga.

Hei tauira:

- He rerenga kupu poto e tohu ana i te pūtakenga mai o tētahi kōrero;
- He rārangi tohutoro i te whārangi whakamutunga o ngā mahi;
- He mihi ki ngā puna āwhina, ki ngā puna kōrero;
- Ngā momo puna awhina, puna kōrero rānei:
 - » he kōrero ā-waha: he uiui i ngā kaumātua, i ngā pakeke, i ngā rangatira, i ngā mātanga rānei;
 - » ngā pukapuka i whakaputaina;
 - » ngā pukapuka kāore anō i whakaputaina;
 - » ngā wāhitau ipurangi, ngā honongaitua rānei.

He kōrero anō kei ngā paetukutuku NZQA:

- [Authenticity: NZQA](#)
- [Myth 3 Managing authenticity: NZQA](#)
- [Authenticity of externally assessed standards: NZQA](#)
- [Guidance on the acceptable use of Artificial Intelligence: NZQA](#)

Te Tāpaetanga me te Hāponotanga

Ko ngā tāpaetanga Kete Manarua me mahi mā te pūnaha hou (kei te paetukutuku matua o MyNZQA): Tāpaetanga pūnaha hou a NZQA.

Kāore te Kete Manarua matihiko e whakahokia ki te ākongā. Mēnā he kōrero anō mō te tāpaetanga me te hāponotanga o te mahi, mā te tari o NZQA e pānui atu ki ngā kura.

Mēnā kei te hiahia āwhina te kura ki te tuku i ngā tāpaetanga o te Kete Manarua:

- Īmērahia a assessment.service.centre@nzqa.govt.nz,
- waeahia rānei te NZQA Contact Centre i te 0800 687 296.

He Mahere Aromatawai ā-Waho

Pāngarau 92068: Te whakamahi whakaaro āhuahanga whakaaro ine hei whakaoti rapanga

Kairangi	Kaiaka	Paetae
Ka whakamahi whakaaro āhuahanga, whakaaro ine mā roto mai i ngā whakaaro waitara hei whakaoti rapanga.	Ka whakamahi whakaaro āhuahanga, whakaaro ine mā roto mai i ngā whakaaro tūhonohono hei whakaoti rapanga. hei whakaoti rapanga.	Ka whakamahi whakaaro āhuahanga, whakaaro ine hei whakaoti rapanga.

Te Taunaki i te Aromatawai ā-Waho

Kairangi	Kaiaka	Paetae
<p>Ko te whakaaro waitara te mea nui. Arā, kia kotahi, nui ake rānei o ēnei ka whakamahi whakaaro āhuahanga, whakaaro ine.</p> <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. • Ka whakamahi kīanga pāngarau tika, ka whakawhitiwhiti rānei i te aroā pāngarau ki te reo Māori. • Ka whakahoropaki i te kaupapa ki tētahi pūāhua Māori me te tautohu i ngā tikanga Māori e whaitake ana. 	<p>Ko te whakaaro tūhonohono te mea nui. Arā, kia kotahi, nui ake rānei o ēnei ka whakamahi whakaahua āhuahanga, whakaaro ine.</p> <ul style="list-style-type: none"> • Ka whiriwhiri, ka whakatutuki i te raupapatanga mahi arorau e hāngai ana. • Ka tūhono i ētahi huatau rerekē, i ētahi whakaahuahanga rerekē rānei. • Ka whakaatu māramatanga ki ngā huatau e hāngai ana. • Ka hanga, ka whakamahi tauira. • Ka tūhono i ngā otinga ki tētahi horopaki, ka whakamahi rānei i ngā kīanga pāngarau hei whakawhitiwhiti whakaaro ki te reo Māori. • Ka whakahāngai i te kaupapa ki tētahi pūāhua Māori me te tautohu i ngā tikanga Māori e whaitake ana. 	<p>Ko te whakamahi whakaaro āhuahanga, whakaaro ine hei whakaoti rapanga.</p> <ul style="list-style-type: none"> • Ka whiriwhiri, ka whakamahi i ētahi tikanga whānui hei whakaoti rapanga. • Ka whakaatu mōhiotanga ki ngā huatau ine/āhuahanga me ngā kupu e hāngai ana. • Ka whakamārama i ngā otinga mēnā kotahi, e rua rānei ngā mahi o roto i te tikanga i whakamahia. • Ka whakamahi kupu āhuahanga/ine, whakaahuahanga rānei hei whakamārama i ngā otinga.

Kairangi	Kaiaka	Paetae
<ul style="list-style-type: none"> • Ka whakaritea he pātai tūhuratanga Ine me te Hanga e hāngai ana ki te kaupapa (Te Papa Kainga) • Ka rangahaua ngā āhuratanga o te kaupapa (Te Papa Kainga) <ul style="list-style-type: none"> » Kōrero tuku iho » Kōrero-ā-lwi, Hapū » Tukanga • Ka whakamahi whakaaro ine, whakaaro āhuahanga hei whakautu i te pātai tūhuratanga <ul style="list-style-type: none"> » ngā pānga pākoki o te tapatoru hāngai » ngā taparau he ōrite te āhua » ngā hononga koki o te rārangi pūtahi me te rārangi whakarara » ngā hononga koki o ngā momo taparau » ngā hononga koki o te porowhita » te roa, te paenga, te horahanga me te horahanga mata, te rōrahi » ngā waeine ngahuru » te kītanga, te papatipu, te paemahana me te wā » ngā waeine pāpātanga pērā i ērā mō te kiato, te tere, te utu ā-waeine me te whakapau kōhinu. 	<ul style="list-style-type: none"> • Ka whakaritea he pātai tūhuratanga Ine me te Hanga e hāngai ana ki te kaupapa (Te Papa Kainga) • Ka rangahaua ngā āhuratanga o te kaupapa (Te Papa Kainga) <ul style="list-style-type: none"> » Kōrero tuku iho » Kōrero-ā-lwi, Hapū » Tukanga <p>Ka whakamahi whakaaro ine, whakaaro āhuahanga hei whakautu i te pātai tūhuratanga</p> <ul style="list-style-type: none"> » ngā pānga pākoki o te tapatoru hāngai » ngā taparau he ōrite te āhua » ngā hononga koki o ngā momo taparau » ngā hononga koki o te porowhita » te roa, te paenga, te horahanga me te horahanga mata, te rōrahi » ngā waeine ngahuru » te kītanga, te papatipu, te paemahana me te wā 	<p>Ka whakaritea he pātai tūhuratanga Ine me te Hanga e hāngai ana ki te kaupapa</p> <p>Ka whakamahi whakaaro ine, whakaaro āhuahanga hei whakautu i te pātai tūhuratanga</p> <ul style="list-style-type: none"> » ngā taparau he ōrite te āhua » ngā pānga pākoki o te tapatoru hāngai » ngā taparau he ōrite te āhua » te roa, te paenga, te horahanga me te horahanga mata, te rōrahi » ngā waeine ngahuru » te kītanga, te papatipu, te paemahana me te wā

Taunakitanga

Taunakitanga Kairangi		Taunakitanga Kaiaka		Taunakitanga Paetae		Taunakitanga Kāore i whiwhi	
K8	K7	KA6	KA5	P4	P4	Kwh2	Kwh1