

He Pūkete Aromatawai Pāngarau

He Aorangi

Te kaupapa: Te Taurea Pātahi, te Tauira me te Pānga

Te whenu: Te Tau me te Taurangi: Taumata 3-4

Hei whakamārama

He tauira ngohe tēnei, hei aromatawai i te mōhio o te ākonga ki te taurea pātahi, te tauira me te pānga. Mā te āta mātakitaki me te āta whakarongo a te pouako ki te mahi a te ākonga, e mōhiotia ai te taumata o te ākonga, ngā wāhi e pakari ana, me ngā wāhi hei whakapakari ake.

I ētahi wā, mā te whakawhitiwhiti kōrero, mā te paku whakamārama rānei a te pouako, e kite ai te ākonga i te rautaki, i te huarahi rānei hei whakaoti i te ngohe.

E tika ana kia taunga te ākonga ki tēnei mea te whakaoti rapanga, te wetewete i ngā kōrero me ngā tohutohu, te āta whakaaro i te rautaki e hāngai ana, me te tūhonohono anō i ngā maramara mātauranga kei roto i tōna hinengaro. Koirā te āhua o tēnei ngohe aromatawai.

Me tuku kia mahia tēnei ngohe aromatawai i muri i ngā akoranga e hāngai ana ki te taurea pātahi, te tauira me te pānga, kaua e tuku mātao noa iho.

Kei ēnei pukapuka ētahi kōrero hei āwhina i te pouako:

- Te Pukapuka Tuarua o Te Poutama Tau Te Uiui Aromatawai. Ko ngā korero whānui e pā ana ki te aromatawai pāngarau.
- Whanaketanga Pāngarau: He Aratohu mā te Pouako. Ko ngā kōrero me ētahi tauira ngohe e hāngai ana ki ngā Whanaketanga Pāngarau.
- Hei Tautoko i te Marautanga Pāngarau: Te Tauira me te Pānga. Ko ngā huatau matua mō tēnei mea te tauira me te pānga.

Ngā tohutohu

Whakaaturia te kāri, ākene pea me pānui tahi me te ākonga, **kia mārama ai ngā kōrero**.

Hoatu he wā hei whakaoti mā te ākonga i ngā pātai.

Tonoa te ākonga kia whakamārama i āna mahi. Whakaahuangia 'Te Whārangi Aromatawai mā te Pouako', hei tuhi māu i āna whakamārama, me ō whakaaro, ō whakataunga aromatawai.

Āta tirohia ngā kōrero kei te whārangi 'Hei Ārahi i te Aromatawai' hei āwhina i a koe ki te whakatau i te taumata e hāngai ana ki te otinga a te ākonga. Kei tēnei whārangi te ngako o te pāngarau e hāngai ana ki tēnei ngohe, me ngā tauira whakamārama a ngā ākonga.

Me mātua mōhio te ākonga

- · ki te whiriwhiri taurea pātahi
- ki ngā meka whakarea matua (tae atu ki te 10 × 10)
- · ki te whakaatu tauira ki te tūtohi
- · ki te whakamahi rautaki taurangi hei whiriwhiri i te huānga o tētahi tauira

Ngā kupu pāngarau e hāngai ana

hauwhātanga, tauira, taurea pātahi, torotika, tūtohi

Ngā kupu e hāngai ana ki te horopaki amio, aorangi

Ngā rauemi

• te kāri ngohe

Ētahi ngohe whakaako e hāngai ana

Hei Tautoko i te Marautanga Pāngarau: Te Tauira me te Pānga

He Ngohe Whakaako i te Tauira me te Pānga:

- Te Taurangi me te Whārite (wh.79)
- Whiriwhiria te Huānga o te Tauira Tāruarua (wh.85)
- Ngā Whakaaturanga Pānga (wh.87)

He Tühuratanga: Te Tauira me te Pānga:

- Te Raupapa Tapaono (wh. 163)
- Te Hanga Poro Tapawhā Hāngai (wh. 164)
- Tohaina te Pūtea (wh.165)
- Taitapa Pikitia (wh. 166)

He tauira pātai hei kukume whakaaro

- Whakamāramahia ngā mahi i oti i a koe i tō hinengaro. He aha tō mahi tuatahi? He aha tō mahi tuarua?
- He aha koe i whiriwhiri ai i tēnā i te tuatahi?
- E môhio ana koe ki tētahi atu rautaki hei whakaoti i tēnā pātai?
- Me pēhea te whakaatu i ngā tau e oti ai ngā amiotanga o ngā aorangi ki te tūtohi?

Hei Ārahi i te Aromatawai

Te pātai			He tau	ira whak	autu a te ākc	nga me te taumata	He tauira whakautu a te ākonga me te taumata whanaketanga e tohua ana
1. Kei te tika, kei te hē rānei tēnei kōrero? I te paunga o te 7 tau, kua hoki mai te aorangi 'A' ki te wāhi e whakaaturia ana i te pikitia.	Ka tautohua ngā tau 3, 6, 9, Ka tautohua ko ngā taurea o te		hoki ai te a 3 (ko ngā tal	aorangi 'A' auranga me	ki te wāhi e w ıwhiti o te 3 rān	hakaaturia ana. 3 a (T eei) ngã tau e hoki ai te c	e hoki ai te aorangi 'A' ki te wāhi e whakaaturia ana. 3a (Te Tauira me te Pānga) → 3 (ko ngā tatauranga mawhiii o te 3 rānei) ngā tau e hoki ai te aorangi 'A' ki te wāhi e whakaaturia ana. 3e (Te Tauira me te Pānga) →
2. Kei te tika, kei te hē rānei tēnei kōrero? I te paunga o te 132 tau, kua hoki mai te aorangi 'E' ki te wāhi e whakaaturia ana i te pikitia.	Ka whakamahia he rautaki w 132 ÷ 2 = (130 ÷ 2) + (2 ÷ 132 ÷ 6 = (120 ÷ 6) + (12 -	he rautaki w. + 2) + (2 + ; + 6) + (12 +	āwāhi tau h 2) = 65 + 1 6) = 22, no	ei whiriwhir = 66, he te 5 reira, he t	i ko te 132 he aurea te 66 nō aurea te 132 i	Ka whakamahia he rautaki wāwāhi tau hei whiriwhiri ko te 132 hei taurea o te 6. Hei tauira: 132 ÷ 2 = (130 ÷ 2) + (2 ÷ 2) = 65 + 1 = 66, he taurea te 66 nō te 6, nō reira, he taurea hoki te 1313 ÷ 6 = (120 ÷ 6) + (12 ÷ 6) = 22, nō reira, he taurea te 132 nō te 6. $4a$ (Te Tau) \rightarrow (Kaupae 7)	ãwāhi tau hei whiriwhiri ko te 132 hei taurea o te 6. Hei tauira: 2) = 65 + 1 = 66, he taurea te 66 nō te 6, nō reira, he taurea hoki te 132. 3e (Te Tau) → (Kaupae 6) ÷ 6) = 22, nō reira, he taurea te 132 nō te 6. 4a (Te Tau) → (Kaupae 7)
3. Kei tēhea hauwhātanga o te rangi te aorangi 'A' i te paunga o te 2 tau?	Ka tuhia he porowhita me te Ka hauruatia te 3, me te wha Ka whakawehea te 3 ki te 4,		ıhakaatu i č ahaurua ar κα ½, me te '	ina hauwhi io i tērā hei whakarea i	itanga. Ka hai whiriwhiri i ng tērā ki te 3, ka	whakaatu i ona hauwhätanga. Ka hautorutia te porowhita hei whakaa kahaurua ano i tera hei whirwhiri i nga hauwhätanga: $\frac{3}{4}$, $1\frac{1}{2}$, $2\frac{1}{4}$, 3 . 3 ka $\frac{3}{4}$, me te whakarea i tera ki te 3, ka $2\frac{1}{4}$. 3 e (Te Tau) \rightarrow (Kaupae 6)	whakaatu i ōna hauwhātanga. Ka hautorutia te porowhita hei whakaatu i ngā tau. 2e (Te Tau) \rightarrow (Kaupae 5) kahaurua anō i tērā hei whiriwhiri i ngā hauwhātanga: $\frac{3}{4}$, $1\frac{2}{2}$, $2\frac{1}{4}$, 3 . 3a (Te Tau) \rightarrow (Kaupae 6) ka $\frac{3}{4}$, me te whakarea i tērā ki te 3, ka $2\frac{1}{4}$. 3e (Te Tau) \rightarrow (Kaupae 6)
4. Kei te tika, kei te hē rānei tēnei kōrero? I te paunga o te 57 tau, kei te hauwhātanga	Ka tuhia tētahi tūtohi, me te v Ka tīmata ki te tuhi tūtohi, ā,	itohi, me te w Jhi tūtohi, ā, k	nakaatu and a kitea atu t	5 i ngā tau e tauira. 4c	katoa ki ia hau (Te Tauira m	vhakaatu anō i ngā tau katoa ki ia hauwhātanga o te rangi, i ka kitea atu te tauira. 4a (Te Tauira me te Pānga)→	Ka tuhia tētahi tūtohi, me te whakaatu anō i ngā tau katoa ki ia hauwhātanga o te rangi, tae atu ki te tau 57. 3e (Te Tauira me te Pānga) → Ka fīmata ki te tuhi tūtohi, ā, ka kitea atu te tauira. 4a (Te Tauira me te Pānga) →
	Hauwhātanga	-	2	8	4		
	Ngā tau	0-2 8-10 16-18	2-4 10-12 18-20	4-6 12-14 20-22	6-8 14-16 22-24 		
	Ka whakamahia me te Pānga) →	te rautaki tau	rangi $8x +$	l = 57. Arā	, i te tau tuatak	ni, kei te hauwhātanga	Ka whakamahia te rautaki taurangi 8x + 1 = 57. Arā, i te tau tuatahi, kei te hauwhātanga tuatahi te aorangi 'E', me ia tau tuawaru i muri i tērā. 4e (Te Tauira me te Pānga)→
5. E hia ngā tau kia torotika anō ai te rārangi mai o ngā aorangi e toru nei?	Ka tuhia tētahi tūtohi, hei wh 4a (Te Tauira me te Pānga)	ūtohi, hei wha ne te Pānga)-	akaatu i ngō →	i tau e hok	mai ai ia aor	angi ki te wāhi e whal	Ka tuhia tētahi tūtohi, hei whakaatu i ngā tau e hoki mai ai ia aorangi ki te wāhi e whakaaturia ana, ā, ka kitea ko te tau 24 e pātahi ana ki ia aorangi. 4a (Te Tauira me te Pānga)→
	Aorangi	A			ш	_	
	Ngā tau 3	3, 6, 9, 12, 15, 18, 24 , 27	18, 24, 27	:	6, 12, 18, 24	8, 16, 24	
	Ka whiriwhiria te taurea pāta	e taurea pātal	iiote 3, te	6 me te 8.	4e (Te Tauira	hi o te 3, te 6 me te 8. 4e (Te Tauira me te Pānga) →	
6. Mēnā e 3 tau, e 6 tau, me te 10 tau ngā amiotanga, e hia ngā tau kia torotika anō ai te rārangi mai o ngā aorangi e toru nei?	Ka tuhia tētahi tūtohi, hei wh 4a (Te Tauira me te Pānga) Ka whiriwhiria te taurea pāta	ūtohi, hei who ne te Pānga)- e taurea pātah	ıkaatu i ngö → ii o te 3, te	i tau e hok 6 me te 10	mai ai ia aor 4e (Te Tauiro	Ka tuhia tētahi tūtohi, hei whakaatu i ngā tau e hoki mai ai ia aorangi ki te wāhi e whal 4a (Te Tauira me te Pānga)→ Ka whiriwhiria te taurea pātahi o te 3, te 6 me te 10. 4e (Te Tauira me te Pānga)→	Ka tuhia tētahi tūtohi, hei whakaatu i ngā tau e hoki mai ai ia aorangi ki te wāhi e whakaaturia ana, ā, ka kitea ko te tau 30 e pātahi ana ki ia aorangi. 4a (Te Tauira me te Pānga)→ Ka whiriwhiria te taurea pātahi o te 3, te 6 me te 10. 4e (Te Tauira me te Pānga)→

Te Whārangi Aromatawai mā te Pouako

Te pātai Ngā aromatawai a te pouako 1. Kei te tika, kei te hē rānei tēnei kōrero? I te paunga o te 7 tau, kua hoki mai te aorangi 'A' ki te wāhi e whakaaturia ana i te pikitia. 2. Kei te tika, kei te hē rānei tēnei kōrero? I te paunga o te 132 tau, kua hoki mai te aorangi 'E' ki te wāhi e whakaaturia ana i te pikitia. 3. Kei tēhea hauwhātanga o te rangi te aorangi 'A' i te paunga o te 2 tau? 4. Kei te tika, kei te hē rānei tēnei kōrero? I te paunga o te 57 tau, kei te hauwhātanga tuatahi te aorangi 'l'. 5. E hia ngā tau kia torotika anō ai te rārangi mai o ngā aorangi e toru nei? 6. Mēnā e 3 tau, e 6 tau, me te 10 tau ngā amiotanga, e hia ngā tau kia torotika anō ai te rārangi mai o ngā aorangi e toru nei?

He Aorangi: Taumata 3-4