

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 ‘I’.	
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

He Aorangi

Tūārere	1	2	3
Tau	1	2	3

Tohu Ako: Te Tau, Te Taurangi
Kaupapa: Te taurea pātahi, te tauira me te pānga

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.

Rauemi Tautoko:

Kei te whare whakaputu rauemi o Te Tāhuhu o te Mātauranga ēnei rauemi (Down the Back of the Chair), kei te whata rauemi tuihono hoki o Tāhūrangi.

- *Te Poutama Tau, Pukapuka Tuarua: Te Uiui Aromatawai.* Ko ngā kōrero whānui e pā ana ki te aromatawai pāngarau.
- *Hei Tautoko i te Marautanga Pāngarau: Te Tauira me te Pānga.* Ko ngā huatau matua me ētahi ngohe whakaako e hāngai ana ki 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. Tāruatia ‘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 ngā mahi 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
- Whiriwhiria te Huānga o te Tauira Tāruarua
- Ngā Whakaaturanga Pānga

He Tūhuratanga: Te Tauira me te Pānga:

- Te Raupapa Tapaono
- Te Hanga Poro Tapawhā Hāngai
- Tohaina te Pūtea
- Taitapa Pikitia

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 mōhio 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

He Aorangi

	He tauira whakaatu a te ākonga me ngā paetohu aromatawai										
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 ko ngā taurea o te 3 (ko ngā tatauranga mawhiti o te 3 rānei) ngā tau e hoki ai te aorangi ‘A’ ki te wāhi e whakaaturia ana. (Te Tauira me te Pānga, Tau 5)										
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 wāwāhi tau hei whiriwhiri ko te 132 hei taurea o te 6. Hei tauira: $132 \div 2 = (130 \div 2) + (2 \div 2) = 65 + 1 = 66$, he taurea te 66 nō te 6, nō reira, he taurea hoki te 132. (Te Tau, Tau 6) $132 \div 6 = (120 \div 6) + (12 \div 6) = 22$, nō reira, he taurea te 132 nō te 6. (Te Tau, Tau 7)										
3. Kei tēhea hauwhātanga o te rangi te aorangi ‘A’ i te paunga o te 2 tau?	Ka tuhia he porowhita me te whakaatu i ōna hauwhātanga. Ka hautorutia te porowhita hei whakaatu i ngā tau. (Te Tau, Tau 6) Ka haurutia te 3, me te whakahaurua anō i tērā hei whiriwhiri i ngā hauwhātanga: $\frac{3}{4}$, $1\frac{1}{2}$, $2\frac{1}{4}$. 3. (Te Tau, Tau 6) Ka whakawehea te 3 ki te 4, ka $\frac{3}{4}$, me te whakarea i tērā ki te 3, ka $2\frac{1}{4}$. (Te Tau, Tau 6)										
4. Kei te tika, kei te hē rānei tēnei kōrero? I te paunga o te 57 tau, kei te hauwhātanga tuatahi te aorangi ‘I’.	Ka tuhia tētahi tūtohi, me te whakaatu anō i ngā tau katoa ki ia hauwhātanga o te rangi, tae atu ki te tau 57. (Te Tauira me te Pānga, Tau 6) Ka fimata ki te tuhi tūtohi, ā, ka kitea atu te tauira. (Te Tauira me te Pānga, Tau 7) <table><tr><td>Hauwhātanga</td><td>1</td><td>2</td><td>3</td><td>4</td></tr><tr><td>Ngā tau</td><td>0-2 8-10 16-18 ...</td><td>2-4 10-12 18-20 ...</td><td>4-6 12-14 20-22 ...</td><td>6-8 14-16 22-24 ...</td></tr></table>	Hauwhātanga	1	2	3	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 ...
Hauwhātanga	1	2	3	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 ...							
5. E hia ngā tau kia torotika anō ai te rārangi mai o ngā aorangi e toru nei?	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. (Te Tauira me te Pānga, Tau 7) <table><tr><td>Aorangi</td><td>A</td><td>E</td><td>I</td></tr><tr><td>Ngā tau</td><td>3, 6, 9, 12, 15, 18, 24, 27 ...</td><td>6, 12, 18, 24 ...</td><td>8, 16, 24 ...</td></tr></table> Ka whiriwhiria te taurea pātahi o te 3, te 6 me te 8. (Te Tauira me te Pānga, Tau 8)	Aorangi	A	E	I	Ngā tau	3, 6, 9, 12, 15, 18, 24, 27 ...	6, 12, 18, 24 ...	8, 16, 24 ...		
Aorangi	A	E	I								
Ngā tau	3, 6, 9, 12, 15, 18, 24, 27 ...	6, 12, 18, 24 ...	8, 16, 24 ...								
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 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. (Te Tauira me te Pānga, Tau 7) Ka whiriwhiria te taurea pātahi o te 3, te 6 me te 10. (Te Tauira me te Pānga, Tau 8)										