KAUPAE 7/4A Waiporoporo	KAUPAE 6/3E Whero	KAUPAE 6/3A Kikorangi	KAUPAE 5/2E Kākāriki
Te Ahimaia	Teagan	Kingston	Awhina
Mackenzie	Kaliya	Journey	RJ
Matariki	Pellishae	Kiri	Eden
	Riley	Hikurangi	Tukatara
	Thando	Christine	
	Te Haeata	Te Huia	
	Clayton	Cadillet	
	Reeves	Matangireia	

ANEI NGĀ RŌPŪ MŌ TE MAHI WHAKATŌPŪ		
Taumata 2	**Taumata 3**	**Taumata 4**
Awhina Kaliya Pellishae Riley Thando Reeves Christine Hikurangi Kiri RJ Kingston Journey Eden Cadillet Te Huia Tukatara Matangireia	Teagan Mackenzie Matariki Te Haeata Clayton Te Ahimaia	

WHENU: INE	TAU: WHAKAREA	WIKI 6, WĀHANGA 1, 2021 = 08.03.2021 - 12.03.2021				
	WHĀINGA AKO	**RĀHINA**	**RĀTŪ**	**RĀAPA**	**RĀPARE**	**RĀMERE**
NGĀ WHAKAREA Ngā rōpū katoa	E ako ana au ki te kōrero wawe i ngā meka whakareatanga.	10X	6X	**TE REO PĀKEHĀ**	8X	3X
MEKA MATUA (+/-) Ngā rōpū katoa	E ako ana au ki te whakamahi i taku mōhio ki ngā meka matua hei whakaoti i ngā rapanga tāpiritanga, tangohanga hoki.	87 + 10 = ☐ ☐ + ☐ = ☐ ☐ - ☐ = ☐ ☐ - ☐ = ☐	76 + 6 = ☐ ☐ + ☐ = ☐ ☐ - ☐ = ☐ ☐ - ☐ = ☐	**TE REO PĀKEHĀ**	65 + 8 = ☐ ☐ + ☐ = ☐ ☐ - ☐ = ☐ ☐ - ☐ = ☐	58 + 3 = ☐ ☐ + ☐ = ☐ ☐ - ☐ = ☐ ☐ - ☐ = ☐
NGĀ PĀHEKO (X) • **Waiporoporo** • **Whero** • **Kikorangi**	E ako ana au ki te whakamahi i tētehi hātepe hei whakaoti i ngā rapanga whakareatanga.	98 X 10 ___	85 X 6 ___	**TE REO PĀKEHĀ**	76 X 8 ___	64 X 3 ___

RAUTAKI TĀPIRI **Ngā rōpū katoa**	E ako ana au ki te whakamahi i te rautaki ‘wāwāhi uara tū’ hei whakaoti i ngā rapanga tāpiri	44 + 57 = □ + □ = □ □ + □ = □ □ + □ = □	45 + 66 = □ + □ = □ □ + □ = □ □ + □ = □	**TE REO PĀKEHĀ**	46 + 75 = □ + □ = □ □ + □ = □ □ + □ = □	47 + 84 = □ + □ = □ □ + □ = □ □ + □ = □
RAUTAKI TANGO **Ngā rōpū katoa**	E ako ana au ki te whakamahi i te rautaki ‘wāwāhi tau’ hei whakaoti i ngā rapanga tango	83 - 9 = □ - □ = □ □ - □ = □	64 - 6 = □ - □ = □ □ - □ = □	**TE REO PĀKEHĀ**	76 - 8 = □ - □ = □ □ - □ = □	92 - 3 = □ - □ = □ □ - □ = □
RAUTAKI WHAKAREA • **Waiporoporo** • **Whero** • **Kikorangi**	E ako ana au ki te whakamahi i te rautaki ‘wāwāhi uara tū’ hei whakaoti i ngā rapanga whakarea	36 X 10 = □ X □ = □ □ X □ = □	31 X 6 = □ X □ = □ □ X □ = □	**TE REO PĀKEHĀ**	37 X 8 = □ X □ = □ □ X □ = □	34 X 3 = □ X □ = □ □ X □ = □
MAHI WHAKAPAKARI • **Waiporoporo** • **Whero**	E ako ana au ki te whakamahi i tētehi hātepe hei whakaoti i ngā	53 X 26 ___	54 X 28 ___	**TE REO PĀKEHĀ**	56 X 21 ___	58 X 24 ___

• **Kikorangi**	rapanga whakareatanga.					
WHAKAOTI RAPANGA **Ngā rōpū katoa**	E ako ana au ki te whakamahi i tētehi rautaki hei whakaoti i te rapanga whakareatanga.	**Whakamahia te rautaki whakarea** 10 katoa ngā pātiki, ā, e 7 ngā kau ki ia pātiki. E whia katoa ngā kau?	**Whakamahia te rautaki whakarea** E 6 katoa ngā pātiki, ā, e 8 ngā kau ki ia pātiki. E whia katoa ngā kau?	**TE REO PĀKEHĀ**	**Whakamahia te rautaki whakarea** E 8 katoa ngā pātiki, ā, e 9 ngā kau ki ia pātiki. E whia katoa ngā kau?	**Whakamahia te rautaki whakarea** E 3 katoa ngā pātiki, ā, e 6 ngā kau ki ia pātiki. E whia katoa ngā kau?
MĀTAURANGA TAU **Ngā rōpū katoa**	E ako ana au ki te rearua me te haurua i tētehi tau.	**Rearuatia ngēnei tau:** 1) 24 = 2) 88 = 3) 16 = 4) 42 = 5) 70 = 6) 54 = 7) 18 = 8) 96 =	**Rearuatia ngēnei tau:** 1) 120 = 2) 480 = 3) 910 = 4) 640 = 5) 370 = 6) 850 = 7) 510 = 8) 290 =	**TE REO PĀKEHĀ**	**Rearuatia ngēnei tau:** 1) 133 = 2) 199 = 3) 111 = 4) 144 = 5) 177 = 6) 155 = 7) 200 = 8) 122 =	**Rearuatia ngēnei tau:** 1) 1300 = 2) 2800 = 3) 3100 = 4) 4400 = 5) 5900 = 6) 6600 = 7) 7500 = 8) 8200 =
NGĀ KĒMU **Ngā rōpū katoa**						

TE REO MATATINI O TE PĀNGARAU Ngā rōpū katoa	E ako ana au ki te whakahua tika i ngā rerenga tau mō te tāpiri	Tic Tac Toe Tangohia te __ i te __ ka __	Tic Tac Toe Tangohia te __ i te __ ka __	**TE REO PĀKEHĀ**	Tic Tac Toe Tangohia te __ i te __ ka __	Tic Tac Toe Tangohia te __ i te __ ka __
MAHI WHAKATŌPŪ						
Taumata 2	E ako ana au ki te whakaoti rapanga whaitake e whai wāhi mai ana: te roa; te horahanga; te rōrahi (kìtanga); te taumaha (papatipu); te koki; te paemahana; te wā; te utu.	**Inea**	**NZMaths**	**TE REO PĀKEHĀ**	**NZMaths**	**NZMaths**
		RAUEMI				
			E 5 ngā ipu rerekē	**TE REO PĀKEHĀ**	E 5 ngā ipu rerekē me te pātara kirīmi	E 5 ngā ipu rerek
		Aromatawai	**MAHI WHAKATŌPŪ** Ko te mahi tuatahi, he āta tirotiro i te rahi o ngā waeine ngahuru mō te taumaha, te kītanga me te rōrahi, me te hononga o tētahi ki tētahi.	**TE REO PĀKEHĀ**	**MAHI WHAKATŌPŪ** Ko te mahi tuatahi, he āta tirotiro i te rahi o ngā waeine ngahuru mō te taumaha, te kītanga me te rōrahi, me te hononga o tētahi ki tētahi.	**MAHI WHAKATŌPŪ** Ko te mahi tuatahi, he āta tirotiro i te rahi o ngā waeine ngahuru mō te taumaha, te kītanga me te rōrahi, me te hononga o tētahi ki tētahi._

<table>
<tr><td></td><td>Rātū</td><td colspan="5">
<table>
<tr><th>Ngā tohutohu</th><th>He Tauira Kōrero Mā Te Pouako</th></tr>
<tr><td>Whakarōpūngia ngā ākonga, kia rua, kia toru rānei ki ia rōpū. Hoatu kia rima ngā ipu ki ia rōpū, ka arataki i a rātou ki te raupapa i ngā ipu mai i te kītanga iti rawa atu ki te kītanga nui rawa atu.

Tangohia ngā tapanga kia kore ai e kitea te kītanga o ia ipu.</td><td>Anei ētahi ipu e rima mā ia rōpū. Tā koutou mahi tuatahi, he āta tirotiro i ngā ipu, ka raupapa ai mai i te mea he iti rawa te wai ka taea ki roto, ki te mea nui.

Ko te kupu mō te rahi o te wai ka taea ki roto i tētahi ipu, ko te ‘kītanga’. Raupapahia ngā ipu mai i te kītanga iti rawa atu ki te kītanga nui rawa atu.

Tirohia te raupapatanga o tētahi atu rōpū. He ōrite ki tā koutou raupapatanga, he rerekē rānei? Me whakawhitiwhiti kōrero ki a rātou.</td></tr>
</table>
</td></tr>
<tr><td></td><td>Rāpare</td><td colspan="5">
<table>
<tr><td>Aratakina ngā ākonga ki te whakatau tata i te kītanga o tēnā me tēnā o ngā ipu.

 </td><td>Anei tētahi ipu kirīmi, e 500 ritamano (ml) te kītanga. Āta whakatairitea te ipu kirīmi nei me ā koutou ipu e rima. Whakawhitiwhiti kōrero mō te kītanga o tēnā me tēnā o ngā ipu. Whakatau tata i te kītanga o ia ipu, ka tuhi ai ki tētahi tūtohi.

<table>
<tr><td>ipu</td><td>A</td><td>E</td><td>I</td><td>O</td><td>U</td></tr>
<tr><td>kītanga (whakatau tata)</td><td></td><td></td><td></td><td></td><td></td></tr>
</table>
</td></tr>
</table>
</td></tr>
<tr><td></td><td>Rāmere</td><td colspan="5">
<table>
<tr><td>Hoatu he ipu-ine ki ia rōpū, ka tono ai i a rātou ki te ine i te kītanga o ia ipu.

 </td><td>He ipu-ine tēnei. Whakamahia te ipu-ine ki te ine i te kītanga o ia ipu, ka tuhi anō ai ki te tūtohi.

Pēhea nei tā koutou pai ki te whakatau tata i te kītanga? Pēhea nei tā koutou pai ki te raupapa i ngā ipu mai i te kītanga iti rawa atu ki te kītanga nui rawa atu?

<table>
<tr><td>ipu</td><td>A</td><td>E</td><td>I</td><td>O</td><td>U</td></tr>
<tr><td>kītanga (whakatau tata)</td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>kītanga (ine)</td><td></td><td></td><td></td><td></td><td></td></tr>
</table>
</td></tr>
</table>
</td></tr>
<tr><td>Taumata 3</td><td>Ka whakaoti rapanga whaitake: ka kōwhiri, ka</td><td>Te Wā me te Wātaka</td><td>NZMaths</td><td>TE REO PĀKEHĀ</td><td>NZMaths</td><td>NZMaths</td></tr>
</table>

<table>
<tr><td></td><td>whakamahi i te waeine e hāngai ana mō te roa, te horahanga, te rōrahi (kìtanga), te papatipu (taumaha), te paemahana, te koki me te wā; ka whakawhitiwhiti waeine māmā; ka whakamahi i ngā inenga tapa ki te wh</td><td colspan="5">RAUEMI</td></tr>
<tr><td></td><td></td><td colspan="5">He ōrite ngā mahi mō ngā rōpū katoa</td></tr>
<tr><td></td><td></td><td><u>Aromatawai</u></td><td><u>MAHI WHAKATŌPŪ</u>
Ko te mahi tuatahi, he titiro ki te tikanga o te wā-24.</td><td>TE REO PĀKEHĀ</td><td><u>MAHI WHAKATŌPŪ</u>
Ko te mahi tuatahi, he titiro ki te tikanga o te wā-24.___</td><td><u>MAHI WHAKATŌPŪ</u>
Ko te mahi tuatahi, he titiro ki te tikanga o te wā-24</td></tr>
<tr><td></td><td>Rātū</td><td colspan="5">
<table>
<tr><th>Te mahi a te pouako</th><th>He tauira kōrero mā te pouako</th></tr>
<tr><td>Whakaaturia tētahi tīkiti waka rererangi, ka whakawhitiwhiti kōrero ai mō te āhua o te whakaatu i te wā e haere ai te waka rererangi.</td><td>Titiro ki tēnei tīkiti waka rererangi. Kei hea te kōrero e whakaatu ana i te wā e haere ai te waka rererangi? Pēhea nei te tuhituhi i te wā?</td></tr>
<tr><td colspan="2">
</td></tr>
<tr><td>Whakaaturia ngā wā e rua nei, ka whakawhitiwhiti kōrero ai:
6.00 ata = 0600
6.00 pō = 1800</td><td>Titiro ki ēnei tāima. He ōrite te 6.00 karaka i te ata ki te kore ono rau hāora (0600).
He ōrite hoki te 6.00 karaka i te pō ki te tekau mā waru rau hāora (1800).
He aha e ōrite ai ēnei wā?</td></tr>
</table>
</td></tr>
</table>

Rāpare

Whakamāramahia te tikanga o te wā-24:
He rerekē te whakaatu i te wā i te karaka 24.
E whā ngā mati.
Ko te mati tuatahi me te tuarua hei whakaatu i te hāora i muri i te weheruatanga o te pō.
Ko te mati tuatoru me te tuawhā hei whakaatu i te meneti i muri i te hāora.

1634

16 hāora i muri i te weheruatanga o te pō — *e 34 meneti i muri i te 16 o ngā hāora*

Ko te 0000 (kore rau hāora) te weheruatanga o te pō. Ka tatau haere ngā hāora mai i reira, tae atu ki te poupoutanga o te rā, ko te 1200 (tekau mā rua rau hāora). Koia rā ngā hāora o te ata.
Mai i te poupoutanga o te rā, ka haere tonu te tatau i ngā hāora o te ahiahi me te pō, tae atu ki te 2400 (rua tekau mā whā rau hāora), koia ko te weheruatanga anō o te pō.

Tirohia te whakaaturanga nei:

	karaka noa	karaka 24	
ko ngā hāora o te ata ēnei	12.00	0000/2400	te weheruatanga o te pō
	1.00	0100	
	2.00	0200	
	3.00	0300	
	4.00	0400	
	5.00	0500	
	6.00	0600	
	7.00	0700	
	8.00	0800	
	9.00	0900	
	10.00	1000	
	11.00	1100	
	12.00	1200	te poupoutanga o te rā
ko ngā hāora o te ahiahi/pō ēnei	1.00	1300	
	2.00	1400	
	3.00	1500	
	4.00	1600	
	5.00	1700	
	6.00	1800	
	7.00	1900	
	8.00	2000	
	9.00	2100	
	10.00	2200	
	11.00	2300	
	12.00	2400/0000	te weheruatanga o te pō

E tino whakamahia ana te karaka 24 i roto i ngā whakahaere o Te Ope Taua o Tūmatauenga, mō ngā wātaka pahi, wātaka tereina, wātaka wakarererangi hoki. Ko te take, kia kaua e pōhēhētia ngā hāora o te ata me ngā ngā hāora o te ahiahi/pō.

		Tukuna ētahi pātai mō te huri i te wā noa hei wā-24. Whakawhitiwhiti kōrero mō ngā rautaki e huri ai te wā noa hei wā-24.	Ko te 8:45 te wā tīmata ai te kura i ia rā. Me pēhea te tuhi i tēnei wā hei wā-24? E hia hāora i muri i te weheruatanga o te pō? *E waru.* Nō reira ko te 0800 tēnā. E hia meneti i muri mai i te waru karaka? *E 45.* Koirā ngā mati tuatoru, tuawhā o te wā-24. Nō reira ko te 0845 te wā-24. He ōrite te 8:45 me te 0845. Ko te 3:15 te wā mutu ai te kura i ia rā. Me pēhea te tuhi i tēnei tāima hei wā-24? E hia hāora i muri i te weheruatanga o te pō? *Tekau mā rua hāora mai i te weheruatanga o te pō ki te poupoutanga o te rā;, ā, e toru hāora atu anō. Nō reira 15 hāora.* Nō reira ko te 1500 hāora tēnā. E hia meneti i muri i te 3.00 karaka? *Tekau mā rima.* Nō reira, ka honoa atu te tekau mā rima meneti ki te tekau mā rima hāora, ko te 1515 (ka pēnei te whakahua – tekau ma rima tekau ma rima hāora).
	Rāmere	Tukuna ētahi pātai mō te huri i te wā noa hei wā-24. Whakawhitiwhiti kōrero mō ngā rautaki e huri ai te wā noa hei wā-24.	Ko te 8:45 te wā tīmata ai te kura i ia rā. Me pēhea te tuhi i tēnei wā hei wā-24? E hia hāora i muri i te weheruatanga o te pō? *E waru.* Nō reira ko te 0800 tēnā. E hia meneti i muri mai i te waru karaka? *E 45.* Koirā ngā mati tuatoru, tuawhā o te wā-24. Nō reira ko te 0845 te wā-24. He ōrite te 8:45 me te 0845. Ko te 3:15 te wā mutu ai te kura i ia rā. Me pēhea te tuhi i tēnei tāima hei wā-24? E hia hāora i muri i te weheruatanga o te pō? *Tekau mā rua hāora mai i te weheruatanga o te pō ki te poupoutanga o te rā;, ā, e toru hāora atu anō. Nō reira 15 hāora.* Nō reira ko te 1500 hāora tēnā. E hia meneti i muri i te 3.00 karaka? *Tekau mā rima.* Nō reira, ka honoa atu te tekau mā rima meneti ki te tekau mā rima hāora, ko te 1515 (ka pēnei te whakahua – tekau ma rima tekau ma rima hāora).