

## Paerewa Paetae

<b>Aronga</b>	Pūtaiao 2.1		
<b>Ingoa</b>	Te whakahāngai huatau koiora ki tētahi rauropi whakahirahira ki te Māori		
<b>Kaupae</b>	2	<b>Whiwhinga</b>	4
		<b>Aromatawai</b>	Ā-roto
<b>Marau akoranga</b>	Te Marautanga o Aotearoa		
<b>Kokonga akoranga</b>	Pūtaiao		
<b>Mana rēhita</b>	Kua rēhitatia	<b>Te rā i mana ai</b>	19 Whiringa-ā-rangi 2015
<b>Te rā e arotakengia ai</b>	31 Hakihea 2018	<b>Te rā i puta ai</b>	19 Whiringa-ā-rangi 2015

### Te Hononga ki te Marautanga

I ahu mai tēnei paerewa paetae i te Taumata 7 o *Te Marautanga o Aotearoa*, i whakaputaina e Te Pou Taki Kōrero i te tau 2008.

*Te Ao Tūroa, Te Rauropi*

- 1 *Ka torotoro i ngā rerenga tukanga koiora o te tipu, o te kīrehe.*
- 2 *Ka mārama ki te pāhekoheko o te pītau-ira me te taiao i roto i te whakatinana ira.*

*Ngā Tautake Pūtaiao me ngā Kōrero o Mua*

- 2 *Ka mārama haere ki ngā huatau o te tautake o te mātauranga, kia kite ai i ngā uara taketake o te pūtaiao, he rerekē i ērā o te tangata whenua. Ka mārama haere ki ngā tikanga whakahaere o te mātauranga pūtaiao, me te ako i ngā kōrero mō ētahi tauira whakapai, whakakino rānei. Ka tirohia ētahi take porihanga o ēnei rā e pā ana ki ngā matatika pūtaiao, me pēhea hoki e uruparehia ai.*

E hono ana ki te Papa Whakaako mō te Pūtaiao 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><b>Paetae</b> Te whakahāngai huatau koiora ki tētahi rauropi whakahirahira ki te Māori.</p>	<p>Hei tohu i te paetae:</p> <ul style="list-style-type: none"> <li>• Ka whakahāngai i ngā huatau koiora ki ngā mahi a te Māori e pā ana ki tētahi rauropi, arā:             <ul style="list-style-type: none"> <li>– ka whakaahua i ngā mahi a te Māori e pā ana ki taua rauropi</li> <li>– ka tautohu i ngā huatau koiora e whai pānga ana.</li> </ul> </li> </ul>
<p><b>Kaiaka</b> He kaiaka te whakahāngai huatau koiora ki tētahi rauropi whakahirahira ki te Māori.</p>	<p>Hei tohu i te kaiaka:</p> <ul style="list-style-type: none"> <li>• Ka whakataurite i ngā huatau koiora ki ngā mahi a te Māori.</li> </ul>
<p><b>Kairangi</b> He kairangi te whakahāngai huatau koiora ki tētahi rauropi whakahirahira ki te Māori.</p>	<p>Hei tohu i te kairangi:</p> <ul style="list-style-type: none"> <li>• Ka kōrero mō ngā pānga o ngā mahi a te Māori me ngā huatau koiora.</li> </ul>

**Kōrero Āpiti**

E whai ake nei ngā whakamārama o ngā tino kupu, kīanga rānei:

whakahāngai	Ko te whiriwhiri i ngā kōrero, ngā ariā me ngā huatau e hāngai ana ki tētahi take kia mārama ai taua take.
huatau koiora	<p>Ko ngā urutaunga ā-hanga, ā-whanonga, ā-tinana o te rauropi, me te whakarōpūtanga o ngā rauropi i runga i aua urutaunga. Me uru hoki ēnei o ngā tukanga koiora, arā, te:</p> <ul style="list-style-type: none"> <li>• whakaputa uri</li> <li>• tipu</li> <li>• kai.</li> </ul> <p>Tērā e kōrerohia te ira me te whakatinanatanga ira.</p>

<p>rauropi whakahirahira ki te Māori</p>	<p>Ko ngā rauropi nui ki te Māori/iwi. Koia pea ētahi o ngā rauropi:</p> <ul style="list-style-type: none"> <li>• tītī</li> <li>• tuna</li> <li>• kūkū (he kererū, he kūkupa rānei)</li> <li>• harakeke/kōrari</li> <li>• tōtara</li> <li>• hue</li> <li>• īnanga</li> <li>• kōura</li> <li>• tāmure</li> <li>• kahikatea.</li> </ul>
<p>ngā mahi a te Māori</p>	<p>Ko ngā tikanga me ngā mātauranga o ō tātou tūpuna ki te kohi, ki te whakatupu rānei i ngā koiōra o te whenua, o te moana rānei hei oranga mō te tangata, ahakoa kai, ahakoa kākahu, ahakoa taputapu rānei, otirā ko ngā tikanga me ngā mātauranga e hua ai, e toitū ai hoki aua koiōra, mā:</p> <ul style="list-style-type: none"> <li>• te tohu i te wā mō te ruku kina, mō te tāhere kūkupa, mō te mahi tītī, mō te hī tāmure, mō te whakatipu kūmara rānei</li> <li>• te tohu ko ēhea ngā rau o te harakeke kia katohia, ko ēhea ngā pāua kia rukuhia, ko tēhea tōtara rānei kia tuaia.</li> </ul> <p>Kei ngā pakiwaitara, kei ngā whakataukī, kei ngā whakapapa hoki pea ēnei mātauranga.</p>
<p>Ka whakataurite i ngā huatau koiōra ki ngā mahi a te Māori.</p>	<p>Ka kōrero mō te ōrite, mō te rerekē rānei o tēnā mātauranga, o tēnā mahi, otirā mō ngā hua, ngā whakararu, ngā taero, ngā uauatanga me ngā huarahi ka wātea mai i aua mātauranga, mahi anō hoki, tae atu rā ki ngā uara i puta ai aua mātauranga me aua mahi.</p>
<p>Ka kōrero mō ngā pānga o ngā mahi a te Māori me ngā huatau koiōra.</p>	<p>Ko ngā pānga ki te:</p> <ul style="list-style-type: none"> <li>• noho ā-iwi, ā-hapū, ā-whānau rānei, otirā ki ngā tikanga, te reo, me te hauora tangata</li> <li>• taiao me te ao koiōra</li> <li>• mātauranga pūtaiao, mātauranga hangarau hoki</li> <li>• ōhanga.</li> </ul> <p>Tērā hoki te kōrerohia o ngā mātāpono matatika e hāngai ana.</p>

### Kuputaka:

huatau koiōra

biological concepts

tukanga koiōra

biological processes

urutaunga ā-hanga

structural adaptations

urutaunga ā-tinana

physiological adaptations

urutaunga ā-whanonga

behavioural adaptations

**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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