

NGĀ WENU	Ngā Whaingā Paetae
Te Ine me te Āhuahanga	<p>Te Ine</p> <ol style="list-style-type: none">Ka whakaoti rapanga whaitake: <ul style="list-style-type: none">ka kōwhiri, ka whakamahi i ngā waeine, ngā taputapu me ngā āwhata e hāngai ana mō te roa, te horahanga, te rōrahi (kitanga), te papatipu (taumaha), te paemahana, te koki me te wā, ka whakawhitiwhiti waeine. Ka whakaputa, ka whakamahi hoki i ngā ture hei tātai i te paenga me te horahanga o tētahi taparau. Ka whakaputa, ka whakamahi hoki i ngā ture hei tātai i te rōrahi o tētahi poro. Ka mārama ki te whaitakenga o tētahi inenga. <p>Te Hanga</p> <ol style="list-style-type: none">Ka whakaputa, ka whakamahi i ngā tikanga koki o te rārangi pūtahi, te rārangi whakarara me te taparau. Ka whakamahi taputapu ki te waihanga taparau māmā. Ka tuhi raumata tōtika hei hanga matarau māmā. Ka tuhi i ngā momo hoahoa hei whakaatu āhua ahu-3. Ka whakamahi ōwehenga pākoki me te ture a Pythagoras ki te whakaoti rapanga e whai wāhi mai ana te tapatoru hāngai. <p>Te Wāhi me te Ahunga</p> <ol style="list-style-type: none">Ka whakaatu, ka whakamārama, ka whakamahi i te wāhi noho (taunga) o tētahi mea, me te ahunga: <ul style="list-style-type: none">ngā tōpito, ngā koki o te kāpehu, ngā āhuatanga o te taiao, te tukutuku (takirua raupapa), te mahere. <p>Te Panoni</p> <ol style="list-style-type: none">Ka tautuhi, ka whakamārama, ka whakamahi i te hangarite o tētahi āhua ahu-2, āhua ahu-3. Ka tautuhi, ka whakamārama, ka whakamahi i ngā āhuatanga pūmau o ngā panoni.

Te Tau me te Taurangi	<p>Te MātaurangaTau</p> <ol style="list-style-type: none">Ka mōhio ki ngā tikanga o te taupū me te tānga ngahuru.
	<p>Ngā Rautaki Tau</p> <ol style="list-style-type: none">Ka kōwhiri, ka whakamārama i te rautaki e tino whaihua ana hei whakaoti rapanga e whai wāhi mai ana te tau tōpū, te hautau, te tau ā-ira, te ōrau, te ōwehenga, te pāpātanga, me te taupū: <ul style="list-style-type: none">rautaki tatau, rautaki tāpiripiri, rautaki whakarea, rautaki pānga riterite. Ka mārama ki te whaitakenga o te otinga. Ka whiriwhiri tauwehe pātahi, taurea pātahi hoki.
	<p>Te Tauira me te Pānga</p> <ol style="list-style-type: none">Ka tuhi whārite rārangi ki te whakatauria pūāhua whaitake, ka whakaoti hoki i te whārite. Ka whakawhānui i ngā tikanga o roto i ngā rautaki tau hei tūāpapa mō ngā tikanga taurangi. Ka whakaatu i te ōritenga o ngā ture e hāngai ana ki tētahi pānga rārangi Kotahi. Ka rāwekeweke kiānga i runga i ngā tikanga taurangi. Ka whakaatu pānga rārangi, pānga pūrua, pānga taupū ki te kauwhata hei whakatauria i tētahi pūāhua whaitake.

Te Taunga	<p>Te Tūhuratanga Tauanga</p> <ol style="list-style-type: none">Ka whai i ngā tikanga mō te tūhuratanga tauanga ki te whakamahere, ki te whakatutuki tirohanga tauanga, whakamātau tauanga hoki: <ul style="list-style-type: none">ka whakatakoto pātai, tāpaetanga kōrero rānei, ka whakatau i ngā taurangi hei ine me ngā waeine e hāngai ana, ka whakatau i te tukanga kohikohi raraunga, ka kohikohi raraunga, ka wehewehe raraunga, ka āta whakaaro ki ngā take e taurangi ai ngā raraunga, ka kōwhiri i ngā whakaari raraunga e whaitake ana, me te wehewehe anō i ngā raraunga e kitea ai ngā tauira, ngā ia, ngā pānga me ngā taurangitanga o ngā raraunga whakarōpū Matatini, ka whakatairite i ngā tīpako me te hono anō o ngā tīpako ki ngā taupori, mā te whakamahi i ngā inenga wēanga me te hora o ngā raraunga, ka whakaputa pūrongo mō te pātai i tūhuratia. Ka arotake i ngā tukanga tauanga o tētahi tūhuratanga: <ul style="list-style-type: none">te tukanga whai tīpako, te whiriwhiri i ngā inenga wēanga me te hora o ngā raraunga, te tika o ngā kōrero ka puta i te tūhuratanga. <p>Te Tūponotanga</p> <ol style="list-style-type: none">Ka tūhura pūāhua tūponotanga papa-tahi, papa-maha hoki: <ul style="list-style-type: none">ka whakamahi hautau, ōwehenga hoki ki te matapae, ki te whakamārama i ngā tuari raraunga ka puta i tētahi whakamātau tūponotanga, ka whakatau i te whaitake o te taurangitanga e kitea mai ana i ngā raraunga o tētahi whakamātau tūponotanga.
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NGĀ WHANAKETANGA 5a		
Ngā Whaingā	Tauira Mahi	
Ka whakaoti rapanga te ākongā, ka whakamārama otinga, e whai wāhi mai ana:	He tauira ēnei o ngā āhutanga me mātua mōhio te ākongā e tutuki ai tana whakaoti rapanga:	Mai i te pukapuka <i>He Aratohu mā te Pouako</i> : <ul style="list-style-type: none">Te Ine me te Hanga 5a Rapanga 7 (Whārangi 31). Te Ine me te Hanga 5a Rapanga 8.
<ul style="list-style-type: none">ngā ture hei tātai tapa, paenga, horahanga, koki, horahanga mata, rōrahi hoki o ngā āhua whānui, ngā tikanga koki o te rārangi pūtahi, te rārangi whakarara, me ngā taparau.	<ul style="list-style-type: none">te whakamahi i te ture a Pythagoras, te tikanga o te koki tauroto, te koki tauaro, te koki taurite me te koki tuawhiti.	
Ka whakaoti rapanga te ākongā, ka whakamārama otinga, e whai wāhi mai ana:	He tauira ēnei o ngā āhutanga me mātua mōhio te ākongā e tutuki ai tana whakaoti rapanga:	Mai i te pukapuka <i>He Aratohu mā te Pouako</i> : <ul style="list-style-type: none">Te Wāhi, te Ahunga me te Panoni 5a Rapanga 9 (Whārangi 32). Te Wāhi, te Ahunga me te Panoni 5a Rapanga 10 (Whārangi 33).
<ul style="list-style-type: none">te hangarite o ngā koki o ngā rārangi pūtahi, ngā rārangi whakarara, ngā taparau, me ngā matarau, te whakaatu me te whakamārama panoni ki te papa kauwhata.	<ul style="list-style-type: none">te whakamahi pere hei whakaatu nekehanga, te whakamahi mahere me ōna āhuatanga katoa (pērā i te tukutuku me te āwhata) hei whakaahua huarahi.	
Ka whakaoti rapanga te ākongā, ka whakamārama otinga, e whai wāhi mai ana:	He tauira ēnei o ngā āhutanga me mātua mōhio te ākongā e tutuki ai tana whakaoti rapanga:	Mai i te pukapuka <i>He Aratohu mā te Pouako</i> : <ul style="list-style-type: none">Te Tau 5a Rapanga 1. Te Tau 5a Rapanga 2. Te Tau 5a Rapanga 3. Te Tau 5a Rapanga 4. Te Tau 5a Rapanga 5.
<ul style="list-style-type: none">ngā tau tōpū me ngā tau hautanga, te kōwhiri i te rautaki paheko tau e tino hāngai ana ki te horopaki.	<ul style="list-style-type: none">ngā tikanga me te whakamahinga o te tānga ngahuru hei tohu i ngā tau tino nui, tino iti hoki, ngā momo hātepe whakaoti paheko hautau.	
Ka whakaoti rapanga te ākongā, ka whakamārama otinga, e whai wāhi mai ana:	He tauira ēnei o ngā āhutanga me mātua mōhio te ākongā e tutuki ai tana whakaoti rapanga:	Mai i te pukapuka <i>He Aratohu mā te Pouako</i> : <ul style="list-style-type: none">Te Tauira me te Pānga 5a Rapanga 6 (Whārangi 30).
<ul style="list-style-type: none">te whārite me te kauwhata rārangi hei whakaatu panga.	<ul style="list-style-type: none">te tikanga o ngā haukotinga tuaka me te rōnaki o tētahi kauwhata rārangi, me te puta o ēnei i rō whārite.	
Ka whakaoti rapanga te ākongā, ka whakamārama otinga, e whai wāhi mai ana:	He tauira ēnei o ngā āhutanga me mātua mōhio te ākongā e tutuki ai tana whakaoti rapanga:	Mai i te pukapuka <i>He Aratohu mā te Pouako</i> : <ul style="list-style-type: none">Te Tauanga 5a Rapanga 11 (Whārangi 35).
<ul style="list-style-type: none">te whakatakoto pātai, tāpaetanga kōrero rānei, te whakahaere tūhuratanga tauanga, me te whakaputa pūrongo, te arotake i ngā kōrero ka puta i tētahi tūhuratanga tauanga, te whakaputa kōrero mō te pānga o tētahi taurangi ki tētehi.	<ul style="list-style-type: none">te whakaatu raraunga ki te kauwhata kauamo me te kauwhata marara, te whaitake me te whaihua o ngā momo whakaari raraunga, ngā tikanga matatika e hāngai ana pērā i te tikanga kia kaua e haukumea te āhua o ngā pātai.	
Ka whakaoti rapanga te ākongā, ka whakamārama otinga, e whai wāhi mai ana:	He tauira ēnei o ngā āhutanga me mātua mōhio te ākongā e tutuki ai tana whakaoti rapanga:	Mai i te pukapuka <i>He Aratohu mā te Pouako</i> : <ul style="list-style-type: none">Te Tūponotanga 5a Rapanga 12 (Whārangi 22).
<ul style="list-style-type: none">tētahi pūāhua tūponotanga papa-maha.	<ul style="list-style-type: none">te tātai tūponotanga o tētahi pāpono raupapa.	