

WHANAKETANGA: PĀNGARAU (1a, 1e, 2a)



	WHANAKETANGA 1a	WHANAKETANGA 1e	WHANAKETANGA 2a
Te Tino Wāhanga Pāngarau	Ngā Whāinga		
	<i>Ka whakaoti rapanga te ākongā, ka whakamārama otinga, e whai wāhi mai ana:</i>	<i>Ka whakaoti rapanga te ākongā, ka whakamārama otinga, e whai wāhi mai ana:</i>	<i>Ka whakaoti rapanga te ākongā, ka whakamārama otinga, e whai wāhi mai ana:</i>
Te Tau (Te Mātauranga Tau me ngā Rautaki Tau)	<ul style="list-style-type: none"> ngā rautaki tatau pānga-tahi hei whakaoti paheko tau. ngā tauoti mai i te 0 ki te 20, arā, ko ngā tohutu, ngā kupu tau, me te rahi o ngā tau te whakaahuahanga me te raupapa o ngā tau ngā tau rearua ki te 10 me ngā haurua e whai pānga ana te mātauranga uara tū e hāngai ana, pēnei i ngā tauhono takirua o roto i te 5 me te 10, me ngā wāwāhitanga uara tū. 	<ul style="list-style-type: none"> ngā rautaki tatau māwhitiwhiti, ngā rautaki tatau ake, me ngā rautaki tohatoha ōrite hei whakaoti paheko tau. ngā tauoti mai i te 0 ki te 100 me te mātauranga uara tū e hāngai ana te tatau mawhiti-2, mawhiti-5, mawhiti-10, whakamua, whakamuri hoki ngā meka tāpiritanga ki te 10 me ngā tangohanga e whai pānga ana ngā tau rearua ki te 20 me ngā haurua e whai pānga ana te whakaatu paheko tau hei whārite ngā kupu, ngā tohu, ngā whakaahuahanga, me te tikanga o ngā haurua me ngā hauwhā. 	<ul style="list-style-type: none"> ngā rautaki wāwāhi tau hei whakaoti paheko tau. ngā tauoti mai i te 0 ki te 1 000, me te mātauranga uara tū e hāngai ana ngā hautau māmā ngā meka tāpiritanga ki te 20 me ngā tangohanga e whai pānga ana te raupapa hautau māmā mēnā he ōrite te tauraro.
Te Tauira me te Pānga	<ul style="list-style-type: none"> te hanga me te whakaroa tauira tāruarua. te tautohu i te pūtaka o te tauira e tāruaruatia ana. 	<ul style="list-style-type: none"> te hanga me te whakaroa tauira raupapa āhuahanga, tauira raupapa tau hoki te hanga me te whakaroa tauira tāruarua, e rua ōna āhuatanga taurangi te whiriwhiri huānga o roto i tētahi tauira tāruarua māmā. 	<ul style="list-style-type: none"> te tipu o te tauira raupapa me te pūmautanga o te tipu. ngā tauira o roto i te wāwāhitanga tāpiripiri o tētahi tau te whakaatu pānga māmā ngā tauira ka puta i te wāwāhi āhua te whakamahi rauemi kē hei hanga tauira tāruarua e rite ana ki ētahi atu.
Te Ine me te Hanga	<ul style="list-style-type: none"> te whakatairite me te whakaraupapa i te rahi o ngā āhuatanga ine o ētahi mea e rua te whakarōpū taonga i runga anō i ngā āhuatanga hanga o aua taonga. ēnei āhuatanga e taea ana te ine: te roa, te taumaha, te wā, te paemahana, me te utu te reo māmā hei whakatairite i ngā āhuatanga ine o ētahi mea ēnei momo āhuatanga hanga māmā hei whakarōpū taonga: te rahi, te tae, te maha o ngā kokonga, ngā tapa, me ngā mata. 	<ul style="list-style-type: none"> te whakamahi waeine aro kē hei ine i tētahi mea te whakamahi waeine aro whānui māmā hei ine i tētahi mea ngā āhuatanga hanga o ngā taparau māmā me ngā matarau māmā. 	<ul style="list-style-type: none"> ēnei āhuatanga e taea ana te ine – te hurihanga, te rōrahi/kitanga, me te horahanga te pūmautanga o te waeine te tāruarua i te waeine hei ine i tētahi mea, kāore he āputa, kāore e inaki rānei te wāhi tīmata me te wāhi mutu o tētahi inenga ngā ingoa o ngā āhua ahu-2 māmā me ngā āhua ahu-3 māmā (pērā i te tapatoru, te tapawhā, te taimana, te porowhita, te tapawhā rite, te tapawhā hāngai, te pouaka, me te poi).
Te Wāhi, te Ahunga, me te Panoni	<ul style="list-style-type: none"> te whai me te hoatu tohutohu mō te nuku te whakamārama i te wāhi noho o tētahi mea. ngā kupu ahunga māmā, pēnei i ēnei: whakamua, whakamuri, māui, matau, me ētahi noa atu ngā kupu whakaatu taunga māmā pēnei i ēnei: tata, tawhiti, taha, waenganui, mua, muri, me ētahi noa atu. 	<ul style="list-style-type: none"> te whai me te hoatu tohutohu mō te hurihanga te tautohu i te whakaatanga, te hurihanga, me te nekenga, o tētahi āhua māmā. 	<ul style="list-style-type: none"> te hurihanga whakatekara, te hurihanga kōaro, me ngā hurihanga hautanga māmā ($\frac{1}{2}, \frac{3}{4}, \frac{1}{3}, \frac{4}{5}, \frac{1}{2}, \dots$) ngā āhuatanga ka noho pūmau i te panoni māmā.
Te Tauanga	<ul style="list-style-type: none"> te whakarōpū raraunga māmā, e hāngai ana ki te ao o te tamaiti. ngā momo whakarōpūtanga e taea ana mō tētahi huinga raraunga māmā. 	<ul style="list-style-type: none"> te hanga me te whakamāori whakaari raraunga māmā, pēnei i te kauwhata whakaahua. 	<ul style="list-style-type: none"> te tautohu ahunga matua te whakaatu taunga māmā ki te tukutuku te whakaata, te neke, me te huri i tētahi āhua māmā.
Te Tūponotanga	<ul style="list-style-type: none"> te tūhura i ētahi pūāhua tūponotanga māmā te matapae me te whakamātau i ngā putanga o tētahi pāpono tūponotanga. 	<ul style="list-style-type: none"> ngā putanga ka taea i tētahi pāpono tūponotanga. 	<ul style="list-style-type: none"> te reo māmā hei whakaahua i te tūponotanga o tētahi putanga. te ōrite, te rerekē, te rangirua rānei o ngā putanga o tētahi pāpono.

He Kupu Taka

āhua ahu-2 2-dimensional shape
 āhua ahu-3 3-dimensional shape
 āhuatanga hanga geometric properties
 āhuatanga ine measurement attributes
 ahunga direction
 anga pīrepire slavonic abacus
 anga tekau tens frame
 āputa gap
 āwhiwhi approximate
 hangarite symmetry

huānga element
 huinga raraunga data set
 hoahoa pere arrow diagram
 inaki overlap
 kōaro anti-clockwise
 koeko pyramid
 koki hāngai right angle
 matapae predict
 matarau polyhedron
 nuku movement

paheko tau number-operation
 pānga māmā simple relations
 hoahoa pere transformation
 pāpono event
 pāpono tūponotanga probability event
 poro prism
 pūāhua tūponotanga probability situation
 pūmau invariant
 pūmautanga invariance
 putanga outcome

rangirua uncertain
 rārangi hāngai perpendicular line
 rārangi pūtahi intersecting line
 rārangi whakarara parallel line
 raraunga data
 raraunga whakarōpū category data
 rautaki tatau māwhitiwhiti skip count strategy
 rautaki tatau pānga-tahi one to one counting strategies
 rautaki tohatoha ōrite equal sharing strategy
 tatau ake count on

tauhono takirua additive pairs
 tauhono takirua additive number pairs
 tūtohi table
 taparau polygon
 tauira tāruarua repetitive pattern
 taunga position
 taurangi variable
 tāruarua repeating
 tauira raupapa āhuahanga sequential geometric pattern
 tauira raupapa tau sequential number pattern

tukutuku grid
 tūtohi tatau tally chart
 uara tū place value
 waeine unit of measurement
 waeine aro kē non-standard unit
 waeine aro whānui standard unit
 wāwāhitanga uara tū place value partitioning
 wāwāhitanga tāpiripiri additive partitioning
 whakaari raraunga data display
 whakaahuahanga representation

whakaata reflection
 whakamāori interpret
 whakamātau trial
 whakatairite compare
 whakataunga tata estimation
 whārite equation
 whetoko pace, stride

NGĀ WHANAKETANGA ME NGĀ TAU KURA

Tau kura 1	Tau kura 2	Tau kura 3	Tau kura 4	Tau kura 5	Tau kura 6	Tau kura 7	Tau kura 8		

WHANAKETANGA: PĀNGARAU (2e, 3a, 3e)



	WHANAKETANGA 2e	WHANAKETANGA 3a	WHANAKETANGA 3e
Te Tino Wāhanga Pāngarau	Ngā Whāinga		
	<i>Ka whakaoti rapanga te ākonga, ka whakamārama otinga, e whai wāhi mai ana:</i>	<i>Ka whakaoti rapanga te ākonga, ka whakamārama otinga, e whai wāhi mai ana:</i>	<i>Ka whakaoti rapanga te ākonga, ka whakamārama otinga, e whai wāhi mai ana:</i>
Te Tau (Te Mātauranga Tau me ngā Rautaki Tau)	<ul style="list-style-type: none"> ngā rautaki wāwāhi tau me te rautaki paheko kōaro mō te tāpiritanga me te tangohanga ngā rautaki tāpiri tāruarua mō te whakareatanga me te whakawehenga māmā, hei whiriwhiri hoki i te hautanga māmā o tētahi tau. 	<ul style="list-style-type: none"> ngā tauoti mai i te 0 ki te 10 000, me te mātauranga uara tū e hāngai ana ngā meka whakareatanga o te 2, te 5, me te 10, me ngā whakawehenga e whai pānga ana ngā kupu, ngā tohu, ngā whakaahuahanga, me te tikanga o ngā haurua, ngā hauroru, ngā hauwhā, ngā haurima, ngā hauwaru, me ngā hautekau te raupapa hautau waetahi. 	<ul style="list-style-type: none"> ngā rautaki whakarea mō te whakareatanga, te whakawehenga, me te whiriwhiri hautanga o tētahi tauoti. ngā tauoti mai i te 0 ki te 1 000 000 me tua atu, ngā hautau noa, ngā tau ā-ira (kia 3 ngā mati ā-ira), me te mātauranga uara tū e hāngai ana ngā hononga whānui o ngā meka matua pērā i te $3 \times 0.4 = 1.2$ te whakaawhiwhi tauoti hei whakatau tata i te otinga o tētahi paheko tau te raupapa hautau.
Te Taurira me te Pānga	<ul style="list-style-type: none"> te whiriwhiri me te whakamahi i te ture o tētahi taurira māmā. te whakamahi tohu hei whakaatu i te ture o tētahi taurira. 	<ul style="list-style-type: none"> ngā taurira tāpiripiri, taurira whakarea māmā, me ngā taurira āhuahanga, pānga hoki ngā taurira o roto i te wāwhitanga whakarea o tētahi tau. 	<ul style="list-style-type: none"> ngā rautaki taurangi māmā e hāngai ana ki tētahi taurira, ki tētahi pānga māmā rānei (pēnei i te pānga tāpiripiri me te pānga whakarea). te tikanga o te taurangi hei whakaatu i tētahi rahinga kāore e mōhiotia ana, me te whakamahinga o te pū (reta) hei tohu taurangi.
Te Ine me te Hanga	<ul style="list-style-type: none"> te kōwhiri i ngā waeine e hāngai ana ki te horopaki me te tōtika anō o te inenga e whaitake ana te tuhi hoahoa me te hanga taurira o ngā āhua ahu-2 me ngā āhua ahu-3. 	<ul style="list-style-type: none"> te whakamahi i te rūri, te tāporowhita, me te koki hāngai hei ine, hei tuhi āhua. ngā momo āwhata maha me ngā hautanga ā-ira o tētahi waeine ngā raumata o ngā āhua ahu-3 māmā, pēnei i te mataono rite, te poro tapawhā hāngai, me te koeko tapawhā hāngai. 	<ul style="list-style-type: none"> te whakamahi i ngā momo taputapu ine whānui (pērā i te ine-koki). te whakatau tata me te whiriwhiri horahanga māmā, rōrahi māmā te tuhi raumata o ngā āhua ahu-3 whānui.
Te Wāhi, te Ahunga, me te Panoni	<ul style="list-style-type: none"> te whakaatu ahunga, taunga hoki ki te mahere māmā, pērā i ngā mahere o ngā wāhi e mōhiotia ana te whai me te hoatu tohutohu haere huarahi te tautohu i ngā āhuatanga ka noho pūmau, me ngā āhuatanga ka rerekē i tētahi panoni. 	<ul style="list-style-type: none"> ngā taunga me ngā ahunga o ngā āhuatanga kōhure o tōna wāhi noho, pēnei i te maunga, te awa, te marae, te kura, me ētahi noa atu. te tukutuku, te takirua raupapa, ngā ahunga matua, me ngā mahere māmā hei whakaatu taunga, huarahi, panoni māmā hoki. 	<ul style="list-style-type: none"> ngā ahunga matua e whā o te kāpehu me ngā ahunga kei waenganui i ērā (pērā i te rāwhiti-mā-tonga) ngā tikanga o te whakaatu taunga ki tētahi pūnaha tukutuku.
Te Tauanga	<ul style="list-style-type: none"> te raraunga whakarōpū me te raraunga motumotu te whakaputa kōrero mō ngā whakakitenga o tētahi tūhuratanga tauanga. 	<ul style="list-style-type: none"> te whakaatu raraunga ki te kauwhata pou māmā, me te kauwhata ira ngā tikanga matatika e hāngai ana (pērā i ngā momo pātai e tika ana kia kore ai te kaiwhakautu e mamae, e whakaitia rānei). 	<ul style="list-style-type: none"> te whakaatu raraunga ki te kauwhata rārangi te āhua o te whakaaringa raraunga hei whakaatu i ngā ia, ngā taurira, me ngā āhuatanga kōhure o roto i ngā raraunga. te whakaputa kōrero mō ngā taurira, ngā ia, me ngā āhuatanga kōhure o tētahi huinga raraunga.
Te Tūponotanga	<ul style="list-style-type: none"> te whakaatu tūponotanga ki tētahi āwhata te whakamāori whakaari raraunga māmā hei matapae i te putanga o tētahi pāpono tūponotanga. 	<ul style="list-style-type: none"> te whakaatu putanga ki tētahi whakaari raraunga māmā (pērā i te kauwhata ira, te kauwhata whakaahua, me te kauwhata pou). te tūhura pūāhua tūponotanga māmā, pēnei i te piu i tētahi uka, me te pīrori i tētahi mataono tau te whakaatu tūponotanga hei hautau māmā i waenganui i te kore me te kotahi. 	<ul style="list-style-type: none"> te reo me ngā whakaahuahanga whānui hei whakaatu tūponotanga. te whakamahi rārangi hautau hei whakaatu tūponotanga te hoahoa rākau hei whakaatu i ngā putanga o ētahi pāpono raupapa.

He Kupu Taka

āhuatanga kōhure distinctive features
 aukati mutually exclusive
 āwhata scale
 hautau waetahi unit fraction
 hoahoa rākau tree diagram
 ia trends
 ine-koki protractor
 kauwhata ira dot graph
 kauwhata porowhita pie graph

kauwhata pou bar graph
 kauwhata rautō stem-and-leaf graph
 koki hāngai right angle
 mataono rite cube
 mātāoroko object
 matatapu anonymous
 mātātuhi image
 mati ā-ira decimal places
 paheko tau number operation

panoni tāruarua repetitive transformation
 pāpono raupapa combined event
 pūmau invariant
 putanga matapae theoretical outcome
 putanga whakamātau experimental outcome
 rahinga quantity
 rārangi hautau fraction line
 raraunga houanga time-series data
 raraunga motukore continuous data

raraunga motumotu discrete data
 raraunga whakarōpū matatini multivariate category data
 raumata net
 rautaki paheko kōaro inverse operation strategy
 rautaki taurangi algebraic strategy
 rautaki wāwāhi tau part-whole strategy
 rautaki whakarea multiplicative strategy
 takirua raupapa ordered pair
 tāpiri tāruarua repeating addition

tāporowhita compass
 taurira āhuahanga geometric pattern
 taurira tāpiripiri additive pattern
 taurahi scale factor
 tikanga matatika ethical conventions
 tūhuratanga tauanga statistical investigation
 wāwhitanga whakarea multiplicative partitioning
 wehe kētanga independent
 whakaawhiwhi round

whakatau tata estimate
 whakawhirinaki dependent

NGĀ WHANAKETANGA ME NGĀ TAU KURA								
1a	1b	2a	2b	3a	3b	4a	4b	5a
Tau kura 1	Tau kura 2	Tau kura 3	Tau kura 4	Tau kura 5	Tau kura 6	Tau kura 7	Tau kura 8	

WHANAKETANGA: PĀNGARAU (4a, 4e, 5a)



	WHANAKETANGA 4a	WHANAKETANGA 4e	WHANAKETANGA 5a	
Te Tino Wāhanga Pāngarau	Ngā Whāinga			
	<i>Ka whakaoti rapanga te ākongā, ka whakamārama otinga, e whai wāhi mai ana:</i>	<i>Ka whakaoti rapanga te ākongā, ka whakamārama otinga, e whai wāhi mai ana:</i>	<i>Ka whakaoti rapanga te ākongā, ka whakamārama otinga, e whai wāhi mai ana:</i>	
Te Tau (Te Mātauranga Tau me ngā Rautaki Tau)	<ul style="list-style-type: none"> ngā rautaki whakarea whānui mō te whiriwhiri ōrau, ōwehenga māmā hoki hei whakaatu pānga rahinga. ngā tauoti me ngā tau hautanga, me te mātauranga uara tū e hāngai ana ngā tikanga me te whakamahinga o te tau tōraro te whakaawhiwhi tauoti, tau ā-ira hoki ngā hautau ōrite (hautau, hautanga ā-ira, ōrau) ngā tauwehe me ngā taurea o tētahi tau ngā ōrau nui ake i te 100%. 	<ul style="list-style-type: none"> ngā tau tōpū me ngā tau hautanga (hautau noa, hautau ā-ira, ōrau) ngā rautaki tāpiripiri, whakarea hoki e hāngai ana ki ngā horopaki pānga riterite (pērā i te ōwehenga me te pāpātanga māmā). 	<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. 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. 	
Te Tauira me te Pānga	<ul style="list-style-type: none"> te whakaatu pānga māmā hei whārite taurangi, hei kauwhata anō hoki. te hua o te huri i tētahi taurangi me te pānga ki taurangi kē. 	<ul style="list-style-type: none"> te whakaatu pānga hei kupu, hei tūtohi, hei kauwhata, hei whārite hoki te whakaoti whārite taurangi māmā, pērā i te $3t + 5 = 47$. 	<ul style="list-style-type: none"> te whārite me te kauwhata rārangi hei whakaatu pānga. te tikanga o ngā haukotinga tuaka me te rōnaki o tētahi kauwhata rārangi, me te puta o ēnei i rō whārite. 	
Te Ine me te Hanga	<ul style="list-style-type: none"> te whakawhiwhi waeine ngā inenga tapa me ngā ture hei tātai paenga, horahanga, rōrahi hoki o ngā āhua māmā te pāpātanga hei ine i tētahi mea (pēnei i te km/h hei ine i te tere) te whakaatu āhua ahu-3 hei hoahoa ahu-2 (pērā i te tuhinga hoahoa inerite) te tuhi hoahoa āwhata. 	<ul style="list-style-type: none"> ngā momo tirohanga ki tētahi mea, pērā i te tirohanga ā-manu, te tirohanga mua, me te tirohanga mauī te whakamahinga o te ōwehenga me te taurahi hei tuhi hoahoa āwhata. 	<ul style="list-style-type: none"> te tātai i te takanga o te wā te whakaatu wā-24 te tikanga o te koki whakahāngai, te koki whakarārangi, te koki whakahuripū, te koki tāhapa, me te koki hāpūpū. 	<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. te whakamahi i te ture a Pythagoras te tikanga o te koki tauroto, te koki tauaro, te koki taurite, me te koki tauwhiti.
Te Wāhi, te Ahunga, me te Panoni	<ul style="list-style-type: none"> ngā koki o te kāpehu hei whakaatu ahunga te hangarite panoni o tētahi āhua. te hononga o ngā koki ki ngā ahunga matua o te kāpehu ngā tikanga o te hangarite rārangi me te hangarite hurihanga o tētahi āhua. 	<ul style="list-style-type: none"> te ōwehenga hei tātai taurahi, hei tātai hoki i te rahi o tētahi mātātuhi whakarahi tētahi raupapatanga panoni. 	<ul style="list-style-type: none"> te hua o te whakarahi āhua (pērā i te pānga ki te roa o ngā tapa, te horahanga me te rōrahi). 	<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. te whakamahi pere hei whakaatu nekehanga te whakamahi mahere me ōna āhuatanga katoa (pērā i te tukutuku me te āwhata) hei whakaahua huarahi.
Te Tauanga	<ul style="list-style-type: none"> te whakatakoto pātai, tāpaetanga kōrero rānei hei tūāpapa mō tētahi tūhuratanga tauanga te whakatairite i te tuari o ētahi huinga raraunga te whakamahi wēanga. te tātai toharite, tau waenga, inenga whānui, tau tānui o tētahi huinga raraunga, me te whakaari raraunga te whakaatu raraunga ki te kauwhata pou whakaapaapa te tautohu i ngā taurangi o tētahi tūhuratanga tauanga, te kohikohi me te whakaari raraunga mō aua taurangi. 	<ul style="list-style-type: none"> te tātari i ngā whakakitenga o tētahi tūhuratanga tauanga te arohaehae i te tōtika o te tukanga kohikohi raraunga, me te whakaari i ngā raraunga o tētahi tīpako, hei whakaatu i te āhua o tētahi taupori. 	<ul style="list-style-type: none"> te whakaatu raraunga ki te kauwhata pouhere ngā tikanga matatika e hāngai ana (pērā i te whakamōhio atu ki te kaiwhakautu pātai i te whakamahinga o ngā raraunga ka puta i te tūhuratanga tauanga). 	<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 tētahi. 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).
Te Tūponotanga	<ul style="list-style-type: none"> te tōkeke, te haukume rānei o tētahi pāpono tūponotanga. te whakaatu tūponotanga hei ōrau. 	<ul style="list-style-type: none"> te whakatairite i te tuari o ngā putanga matapae me ngā putanga whakamātau. 	<ul style="list-style-type: none"> ngā take e taurangi ai ngā putanga o tētahi whakamātau tūponotanga. 	<ul style="list-style-type: none"> tētahi pūāhua tūponotanga papa-maha. te tātai tūponotanga o tētahi pāpono raupapa.

He Kupu Taka

āhuatanga herekore associative property
 āhuatanga kōaro commutative property
 āhuatanga tohatoha distributive property
 arohaehae critique
 hangarite panoni transformation symmetry
 hātepe algorithm
 haukotinga tuaka axis intercept
 haukume bias
 haukumea be biased

hoahoa āwhata scale diagram
 hoahoa inerite isometric diagram
 horopaki pānga riterite proportional context
 inenga whānui range
 kauwhata kauamo box-and-whisker graph
 kauwhata marara scatter plot
 kauwhata pou whakaapaapa stacked bar graph
 kauwhata pouhere histogram
 koki hāpūpū obtuse angle

koki tāhapa acute angle
 koki tauaro opposite angle
 koki taurite corresponding angles
 koki tauroto interior angles
 koki tauwhiti alternate angles
 koki whakahāngai complimentary angle
 koki whakahuripū conjugate angle
 koki whakarārangi supplementary angle
 mātātuhi image

ōwehenga ratio
 paenga perimeter
 pānga rahinga quantitative relationship
 papa-maha multi-level
 pāpātanga rate
 pāpono raupapa combined event
 pere vector
 pūrua square
 pūtakerua square root

rārangi pūtahi intersecting lines
 raupapatanga panoni combined transformation
 rōnaki slope
 tānga ngahuru standard form
 tāpaetanga kōrero assertion
 tātari analyse
 tau tānui mode
 tau tōpū integer
 tau tōraro negative number

tau waenga median
 taupori population
 taupū exponent
 taurahi scale factor
 taurea multiple
 tauwehe factor
 tikanga matatika ethical conventions
 tīpako sample
 toharite mean

tōkeke fair
 tuari distribution
 tukanga kohikohi raraunga data collection process
 ture formulae
 wēanga measure of central tendency
 whārite taurangi algebraic equation

NGĀ WHANAKETANGA ME NGĀ TAU KURA

	4a	4e	5a
Tau kura 1	Tau kura 2	Tau kura 3	Tau kura 4
Tau kura 5	Tau kura 6	Tau kura 7	Tau kura 8