

Tirohanga Whānui o Te Kaupapa Ako Whakamana

Tātai Pūmanawa

Tō ingoa	Associate Professor: Tony Trinick
Iwi	Te Whānau-ā-Apanui
Tauākī	Tony has provided professional development support to teachers since 1992. He specialises in pāngarau/mathematics and pūtaiao/science years 1-13. He also lectures in mathematics and science education and supervises postgraduate Masters and PhD students. He has been commissioned by various NZ governments to develop national frameworks including curricula for Maori-medium schooling over the past 20 years. His primary research/evaluation focus area is on schooling improvement initiatives and Māori-medium mathematics education. He has been invited to be a keynote speaker at a range of national and international conferences.

Tirohanga Whānui o Te Kaupapa Ako Whakapakari

<ul style="list-style-type: none"> • Evaluation of school improvement projects • Development of localised curriculum for pāngarau and pūtaiao • Deep curriculum and assessment knowledge in pāngarau/mathematics and pūtaiao/science • Knowledge of assessment for learning • Analysis and interpretation of qualitative and quantitative data • Building evaluative capability in teachers and leaders • Developing kura wide pāngarau and pūtaiao programmes 	<ul style="list-style-type: none"> • Wharekura, NCEA pāngarau and pūtaiao planning, teaching and assessment • Working with Māori communities • Nga Whanaketanga, making overall teacher judgments • Reporting student achievement to kura and to whānau • Te reo Māori speaker and writer • Communication, teaching and facilitation skills • Collaborative expertise and building relational trust
---	--

Ngā Kōrero Ngaio

2015 Doctorate in Education (Mathematics education)	1994 Diploma in Mathematics Education: The University of Auckland
1998 M.A.Hons (Education): The University of Auckland	1985 Higher Dip Teaching: Auckland College of Education
1994 B.A. Degree: The University of Auckland	1977 Diploma of Teaching: Palmerston North College of Education
<p>Tony has worked in the teaching profession since 1978 in a variety of primary and secondary schools, in Māori and English-medium. He joined Teacher Support services in 1992 as a secondary mathematics and science advisor. He led the team, which developed the first Māori-medium mathematics curriculum (pāngarau). Since the mid 1990s he has led a variety of professional development programmes to support teachers in the teaching of pāngarau and pūtaiao. Tony is an Associate Professor in the Faculty of Education, lecturing in undergraduate and postgraduate courses in pāngarau and pūtaiao education.</p>	
<p>Programme writing and development</p> <ul style="list-style-type: none"> • Lead the development of the B Ed (teach): Huarahi Māori programme for Auckland College of Education, and several undergraduate and graduate courses in pāngarau and pūtaiao • Lead writer, development of the Marautanga Pāngarau 1995 • Coordinator/lead writer Te Anga Marautanga o Aotearoa 2008 	

Conference presentation (over 30 national and international conference presentations)

Trinick, T. & Fairhall, U. (2016). Mathematics and cultural Symmetry. International Congress on Mathematics Education (ICME), July 24-31, Hamburg, Germany

Trinick, T., Meaney, T. & Fairhall, U. (2015). Finding the way: Cultural revival through mathematics education. In S. Mukhopadhyay & B. Greer Proceedings of the Eight International Mathematics and Education and Society Conference (pp224-230). Vol 1 June 21-26, 2015. Portland, Oregon.

Trinick, T., McMurchy-Pilkington, C. & Taplin, B. (2014). Re-introducing Ethnomathematical Practices into the Classroom: Linguistic Issues. Paper presented at the 5th International Congress on Ethnomathematics (ICEM-5) Pedagogical University - Mabuto, Mozambique, 7-11 July, 2014.

Selection of Publications (Over 50 publications)

Trinick, T., Meaney, T. & Fairhall, U. (2015). Re-introducing Māori Ethnomathematical Activities into the Classroom: Traditional Māori Spatial Orientation concepts. Special issue of *Revista Latinoamericana de Etnomatemática*. *Perspectivas Socioculturales de la Educación Matemática*, 2015, 8 (2), pp. 415 - 431 (17).

Trinick, T., Alaalatoa, B. & Williams, A. (2015) Enhancing Student Achievement: School and Community Learning Partnership. *American Journal of Educational Research*. 3(2), 126-136.

Trinick, T. (2013). Language Policy and Planning: Reviving Māori. In C. Chapelle (Ed.), *The Encyclopaedia of Applied Linguistics*. MA: Wiley-Blackwell. Retrieved from <http://onlinelibrary.wiley.com>

Memberships of networks of expertise

- Range of MOE advisory groups numeracy and curriculum development 1992-2016
- Chair Education Council, Māori-medium advisory group 2012-2014

He whakarāpopotonga tauira mahi

- I have facilitated in school, cluster, regional and national workshops for pāngarau and pūtaiao across a range of kura based on their needs for over 20 years
- I have managed whakapiki pāngarau programmes where teachers take leave for six months and participate in an intensive full time professional development programme for pāngarau including completing a Post Grad Cert in Education
- I have been invited onto a range of MOE, NZQA, Teachers Council, Te Taura Whiri advisory groups over the past 25 years
- I have conducted a range of research studies into pāngarau/mathematics education and schooling improvement projects that have informed my practice, the research community and national policy
- I have been invited to present this research work at a range of national and international conferences

Kaitautoko Tuatahi

Referee Name	Peata Leef
Contact Number	09 818 2317
Contact email address	pea_lee@hoaniwaititi.school.nz

Kaitautoko Tuatahi

Referee Name	Simon Pomare
Contact Number	09-479 5624
Contact email address	simon@terakipaewhenua.school.nz