A STRENGTH-BASED APPROACH TO DEVELOP PĀSIFIKA STUDENTS’ CULTURAL IDENTITIES AND MATHEMATICAL DISPOSITIONS

A Thesis presented in partial fulfillment of the requirements for the degree of Master of Educational Psychology at Massey University, Auckland, New Zealand

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2017
This study examines cultural identity and mathematical disposition development of Pāsifika students aged 11-13 years from a strengths-based perspective. It builds on previous work that advocates for culturally responsive mathematics teaching in collaborative learning environments built around Pāsifika values. Current research also urges pedagogical actions of promoting students’ use of home languages and connecting students' “lived” lives to the mathematics classroom. These teaching practices have been described to affirm student identities as well as foster stronger relationships with mathematics.

A case study approach utilizing qualitative design from a socio-cultural perspective was implemented. Data was collected through group interviews with students and individual interviews with students and teachers. The Year 8 students and their teachers within the study were from two urban Auckland schools that have participated in professional development and learning opportunities focused on culturally responsive inquiry classrooms. Coded analysis of interview transcripts was used to uncover the perspectives of students and teachers and formulated the findings of this research.

Findings revealed that home language use, connecting cultural contexts to the mathematics class, drawing on Pāsifika values to promote mathematical practices and social norms, and the role of the responsive and caring teacher validated students’ cultural identities and supported the development of positive mathematical dispositions. The findings provide insights into how culturally responsive mathematics teaching can draw upon the cultural languages and values of Pāsifika students to affirm their identities and mathematical dispositions.
ACKNOWLEDGEMENTS

I would like to acknowledge the unwavering I support I have received throughout my studies this year. I wish to thank the two schools that generously let me interview their students and teachers. I would like to thank the students I interviewed for their keen participation and positive attitudes in the interview process. I would like to thank the teachers I interviewed for their thoughtful engagement and considered experiences they shared with me.

I am extremely appreciative of the support, feedback and dedication of my supervisors, Professor Roberta Hunter and Professor Glenda Anthony. I would like to sincerely thank Roberta Hunter for her careful guidance, and dedicated support throughout the year. I am also extremely thankful for Glenda Anthony’s professional insight and support.

I would like to thank my colleagues at school, for their continued support and flexibility throughout the year.

Finally, I would like to thank the wonderful support of my friends and family. Their love and encouragement has been invaluable this year.
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