

MERILYN CARTER – ABRIDGED CURRICULUM VITAE

1. Personal Details

Full Name (Mrs) Marilyn Gladys Carter
Preferred Name Lyn

2. Education

PhD Queensland University of Technology, Brisbane, Queensland, Australia.
Thesis title: *A multiple case study of NAPLAN numeracy testing of Year 9 students in three Queensland secondary schools.*

MEd (Research) Queensland University of Technology, Brisbane, Queensland, Australia.
Thesis title: *Year 7 students' approaches to understanding and solving NAPLAN numeracy problems*

Dip Ed New England University; Armidale, New South Wales, Australia. Teaching methods: primary, junior and secondary mathematics

BEc Bachelor of Economics, Australian National University; Canberra, Australian Capital Territory, Australia. Majors: statistics, economics; sub-major: pure mathematics

School NSW Higher School Certificate, Dickson High School, Canberra, Australian Capital Territory, Australia.

3. Work Experience

Administrative/Management

Prior to 1995 Employed by the Australian Public Service in various capacities in the following departments/authorities:

Department of Finance, Canberra
Public Service Board, Canberra
Department of Employment and Industrial Relations, Canberra
Department of Transport, Canberra and Brisbane
Australian Maritime Safety Authority, Brisbane

I took voluntary redundancy, when offered, to join my husband who had taken up a position in Bundaberg.

Teaching and consulting

1995 - 2009 Employed in various mathematics teaching positions up to the levels of Director of Educational Administration and Head of Mathematics at schools in Queensland, including Grace Lutheran College, Rothwell and St Luke's Anglican School, Bundaberg

2011 -2012 Tutoring and marking in mathematics curriculum studies unit for pre-service teachers, at QUT

2010 – present Established my own business as an educational consultant in NAPLAN, mathematics and numeracy, working with teachers and schools in providing professional development and advice in secondary mathematics and numeracy.

Research

2015 – present Researcher with YuMi Deadly Centre, QUT

4. Awards

2012 Australian Education Publishing Award [Primary Student Resource, English] for Oxford Literacy Series Levels 24-30

2012 Outstanding Paper Award 2013 STEM in Education Conference, Beijing for *A Picture is Worth a Thousand Words: A Cross-curricular Approach to Learning about Visuals in STEM*

- 2016 Publication Achievement Award – Prestigious Publication for Carter, M., Klenowski, V., Chalmers, C. (2015). *Who pays for standardised testing? A cost-benefit study of mandated testing in three Queensland secondary schools*. *Journal of Education Policy*.
- 2016 QUT Outstanding Doctoral Thesis Award – Thesis Title: *A multiple case study of NAPLAN numeracy testing of Year 9 students in three Queensland secondary schools*
- 2016 Faculty of Education Outstanding Thesis Award (Runner up): Thesis Title: *A multiple case study of NAPLAN numeracy testing of Year 9 students in three Queensland secondary schools*

5. Publications and Conferences

Published Papers

- Chalmers, C., Carter, M., Cooper, T., & Nason, R. (2017). Implementing “Big Ideas” to Advance the Teaching and Learning of Science, Technology, Engineering, and Mathematics (STEM). *International Journal of Science and Mathematics Education*, 15(1), 25-43. doi: 10.1007/s10763-017-9799-1
- Carter, M., Klenowski, V., & Chalmers, C. (2015). Challenges in embedding numeracy throughout the curriculum in three Queensland secondary schools. *Australian Educational Researcher*, 42(5), 595-611. doi: 10.1007/s13384-015-0188-x
- Carter, M., Klenowski, V., Chalmers, C. (2015). *Who pays for standardised testing? A cost-benefit study of mandated testing in three Queensland secondary schools*. *Journal of Education Policy*.
- Carter, M. (2013). A picture is worth a thousand words: A cross-curricular approach to learning about visuals in STEM. *International Journal of Engineering Education*, 29(4), 1-7.
- Flynn, M, Carter, M., Alford, J., Hughes, H., Fox, J., & Duke, J (2015) Crossing international boundaries through doctoral partnerships: Learnings from a Chinese-Australian forum. *International Journal of Doctoral Studies*, 10, pp. 418-438.
- Mu, G., Zheng, X., Jia, N., Li, X., Wang, S., Chen, Y., He, Y., May, L., Carter, M., Dooley, K., Berwick, A., Sobyra, A., & Diezmann, C. (2013). Revisiting educational equity and quality in China through Confucianism, policy, research, and practice. *The Australian Educational Researcher*, 40(3), 373-389. doi: 10.1007/s13384-013-0113-0
- Quinnell, L., & Carter, M. (2013). Gibberish or what: The use of mathematical symbols and abbreviations in primary years. *Australian Primary Mathematics Classroom*, 18(1), 8-14.
- Carter, M., Hipwell, P., & Quinnell, L. (2012). A picture is worth a thousand words: an approach to learning about visuals. *Australian Journal of Middle Schooling*, 12(2), 5-15.
- Carter, M., & Quinnell, L. (2012). Jabberwocky: The complexities of mathematical English. *Australian Primary Mathematics Classroom*, 17(2), 3-9.
- Carter, M. (2012). Time limitations in NAPLAN numeracy tests. *Australian Mathematics Teacher*, 68(1).
- Quinnell, L., & Carter, M. (2012). Greek or not: The use of symbols and abbreviations in mathematics. *Australian Mathematics Teacher*, 68(2), 34-40.
- Quinnell, L., & Carter, M. (2011). Cracking the language code: NAPLAN numeracy tests in years 7 and 9. *Literacy Learning: the Middle Years*, 19(1), 49-53.
- Carter, M. (2011). *Year 7 students' approaches to understanding and solving NAPLAN numeracy problems*. Master of Education thesis, Queensland University of Technology, Brisbane.
- Carter, M., Tarlo, K., & Trevithick, J. (1980). *Career patterns of women in the Australian Public Service*. Canberra: Public Service Board.

Books/Book Chapters

- Hipwell, P., Carter, M., & Barton, G. (2017). *How to write what you want to say ... about visual images*. Boolarong Press, Brisbane. (in press)
- Carter, M., & Hipwell, P. (2016). *How to write what you want to say ... in business*. Boolarong Press, Brisbane.

Carter, M., Carter, M., Hipwell, P. (2016). *How to write what you want to say ... in science*. Boolarong Press, Brisbane.

Klenowski, V., & Carter, M. G. (2015). Curriculum reform in testing and accountability contexts. In SAGE Handbook of Curriculum, *Pedagogy and Assessment* (Vol. 2, pp. 790-804). SAGE Publications Ltd.

Carter, M., & Hipwell, P. (2013). *How to write what you want to say ... in mathematics*. Boolarong Press, Brisbane.

Carter, M., & Hipwell, P. (2011). *Australian shows*. Oxford Literacy Series Levels 24-30. Oxford University Press, South Melbourne.

Carter, M., & Hipwell, P. (2011). *The flying doctors*. Oxford Literacy Series Levels 24-30. Oxford University Press, South Melbourne.

Conference Papers

Cooper, T., Carter, M. G., & Lowe, J. (2016). *Using the Big Ideas of mathematics to 'close the gap'*. Paper presented at the PME 40: How to Solve It?, Szeged, Hungary.

Carter, M., Cooper, T., & Anderson, R. (2016). *Teachers' use of a pedagogical framework for improvement in mathematics teaching: Case studies from YuMi Deadly Maths*. Paper presented at the 39th Conference of the Mathematics Education Research Group of Australasia, Adelaide, SA.

Cooper, T., & Carter, M. (2016). *Large-scale professional development towards emancipatory mathematics: The genesis of YuMi Deadly Maths*. Paper presented at the 39th Conference of the Mathematics Education Research Group of Australasia, Adelaide, SA.

Carter, M. (2014). *Challenges in embedding numeracy throughout the curriculum in three Queensland secondary schools*. Paper presented at the 2014 STEM in Education Conference, Vancouver.

Carter, M. (2012). *A Picture is Worth a Thousand Words: A Cross-curricular Approach to Learning about Visuals in STEM*. Paper presented at the 2012 STEM in Education Conference, Beijing.

Carter, L. (2011). *Assessment of the general capabilities from the perspective of secondary mathematics*. Paper presented at the 2011 Australasian Curriculum, Assessment and Certification Authorities (ACACA) Conference, Brisbane.

Carter, L. (2010). *Writing for mathematics and science: The use of graphic organisers* (workshop). Paper presented at the STEM in Education Conference 2010, Brisbane.