



Dr. Cathy Bruce

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With 14 years of classroom experience and 11 years in academia, Cathy Bruce is passionate in her conviction that all learners are capable of success in mathematics, from the young child to the experienced educator, and that our ultimate goal is to support learners to become capable and creative solution finders for the day-to-day and world-class problems we face. In 2013 she was named as the winner of the Ontario Colleges and University Faculty Association Teaching Award, for her excellence in university teaching. Her research areas include teacher and student efficacy, assessing the effects of professional learning models for educators, and technology use in the mathematics classroom. Cathy's math interests focus on the challenging topics of fractions, algebraic reasoning and spatial reasoning. Her pursuit of knowledge mobilization has led to a wide range of communication and publication strategies including: interactive digital research papers, video studies, the development of tablet applications and eBooks (all available through her website), extensive practitioner interactive sessions, and peer reviewed publications in the form of 2 algebra books with Dr. Ruth Beatty, 7 chapters in handbooks, 23 journal articles and monographs, and 12 peer reviewed conference proceedings. Dr. Bruce initiated the Math for Young Children project in Ontario with Dr. Joan Moss to feature, and learn more about, young children's mathematics thinking and capabilities by collaborating with JK to Grade 2 educators and students in the form of lesson study. Her current work in fractions involves collaborative action research with teams of Ontario teachers attempting to identify and develop best practices for substantive understanding of representing, comparing, ordering and operating with fractions. This has led to the soon to be released digital paper on Fractions Learning hosted on the EduGains website. Cathy's research is a continual collaboration with educators in classrooms and school district leaders to bridge research-practice gaps and foster generative relationships in education.

You can see her work featured at www.tmerc.ca and follow her on Twitter @drcathybruce