

Mathematics Association Annual Conference 2009

"Mathematics yesterday, today and in the future"

April 14-17 Robinson College, University of Cambridge

Elizabeth Carruthers and Maulfry Worthington

April 16th

**‘Children’s Mathematical Graphics: understanding the key concept,
(Williams Maths Review, 2008)’**

This workshop will help you understand the difference between ‘recording’ in mathematics, and *children’s mathematical graphics* that support deep levels of mathematical understanding about the abstract written language of mathematics. We will explore some difficulties teachers and children experience in written mathematics, relating these to recent Ofsted reports, assessment in the EYFS; the Primary Strategy and the Williams Maths Review.

Elizabeth Carruthers and **Maulfry Worthington** have taught in the full 0 – 8 year age-range (over 26 years each). They have worked as NNS Consultants and E.Y. Advisors; lectured on (BEd and PGCE) Primary mathematics and Early Years courses in H.E., on Early Childhood courses in F.E and as an e-learning facilitator for Early Years online communities for NCSL.

They have carried out extensive research on *children’s mathematical graphics* and their work is highlighted in the recent Williams Maths Review. They have many publications on children’s mathematical graphics including the acclaimed *Children’s Mathematics: Making Marks, Making Meaning* (Sage Publications, 2nd Edition, 2006). Elizabeth is Headteacher of Redcliffe Children’s Centre and maintained nursery, Bristol; and Maulfry is engaged in doctoral research on imaginative play and children’s mathematical graphics (Free University, Amsterdam). Maulfry and Elizabeth co-founded the international **Children’s Mathematics Network**: www.childrens-mathematics.net
