

**ZMATH 2016f.00146**

**Smith, Cathy; Piggott, Jennifer**

**ENRICHing mathematics: progress in building a problem-solving community.**

Joubert, M. (ed.), Proceedings of the British Society for Research into Learning Mathematics (BSRLM). Vol. 29, No. 1. Proceedings of the day conference held at the University of Cambridge, UK, February 28, 2009. London: British Society for Research into Learning Mathematics (BSRLM). 85-90 (2009).

Summary: The SHINE enriching mathematics project recruited secondary school students in two socio-economically deprived London boroughs for out-of-school workshops over the course of a year. Students worked collaboratively on open maths tasks, with discussion guided by NRICH leaders and participating school teachers. Here we outline two aspects of the project evaluation: how we analysed progress in collaborative classwork and how the students described what they had learnt. Students found Shine maths enjoyable, different and more challenging than school maths. Their teachers observed improvement in problem-solving behaviours. The model of a maths-talk learning community offered ways to categorise changing classroom behaviours, and helped to identify tensions and effective practices of classroom management.

*Classification:* B63 D53

*Keywords:* lower secondary; out-of school education; extracurricular activities; SHINE project; evaluation; educational research; classroom observation; student attitudes; problem solving; enrichment; assessment  
<http://www.bsrlm.org.uk/IPs/ip29-1/BSRLM-IP-29-1-15.pdf>