User guide

Think pieces

- *'Making mathematics count'* in school networks
- Finding the path to further progress…
  Tim Coulson
- Learning with insiders: complex professional development
  Anne Watson
- Turning the tide back towards mathematics
  Teresa Smart

These think pieces are drawn from the public knowledge-base. They aim to make sense of the best of what is known from research, theory and policy perspectives in order to provoke and inform new thinking.

The opening think piece *'Making mathematics count' in school networks*, outlines the key themes explored throughout this edition of *What are we learning about...?* The remaining think pieces illustrate these themes.

Use these think pieces for personal reading and reference or to provoke dialogue and discussion with others. Try using them as part of a teacher or lead learner study group activity, or as a starting point for a networked discussion forum on the teaching and learning of mathematics in your school, network or Local Authority.

Accounts of practice

- Moving towards a subject learning community…
  Leading into Learning NLC, Blackburn with Darwen
- A virtual design for networked learning in mathematics
  Learning to Learn NLC, Hampshire
- Developing a networked thinking maths group
  Bedfordshire Schools Improvement Partnership
- Closing the gap in mathematic attainment
  Small Schools Managing Improvement Group NLC, Telford

These accounts of practice are generated from the work of practitioners involved in school networks. They aim to reflect the best of what is known from networked learning in action in order to provide concrete, illustrative examples of networked learning practice.

The four accounts in this series explore in different ways and with differing emphases the characteristics of effective network practice for improving and developing effective teaching and learning in mathematics.

Use these accounts as working examples for discussion or to reflect on network practice with others. Try using them as part of a cross-school project team or working group session, or as a starting point for a subject leadership learning forum to explore key teaching and learning issues in your department, school or network.

Development tools

- Two routes to an improvement solution…
  Planning and working together in mathematics
- Trial and transfer-improving practice through Research Lessons
  Problem-solving together in mathematics
- Networked Learning Walks – making the learning count
  Learning together in mathematics
- Multiplying the learning through collaborative enquiry
  Enquiring together in mathematics

These development tools have been designed from the best of what is known to work well in engaging network participants in the collaborative construction of new learning for action. These tools aim to enable system leaders and leaders at all levels within a network, to work with others in order to develop, analyse and reflect on practice.

The development tools in this series provide a practical resource, designed to engage network participants in collaborative learning activities focused on networked approaches to improving teaching and learning in mathematics.

Use these development tools to explore with others the networked processes of planning, problem-solving, working, learning and enquiring together. Try using them as part of a programme of school or network planning meetings, or during a cross-school staff development day, network conference or other event to explore ways of doing mathematics together across a network of schools.