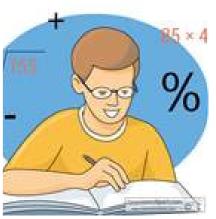
Teaching and Learning

Mathematics Toolkit: fluency, reasoning and problem solving



The National Curriculum for mathematics has three aims that should be at the heart of how you interpret the content of the curriculum.

"Pupils need to become fluent, reason mathematically and solve problems."

Delegates will consider the importance of models and images for children's mathematical thinking, calculating and problem solving. They will learn how to help children form fundamental mathematical concepts and expand these concepts by applying them to new problems thus extending their capacity to 'do' maths, successfully solve problems and reason mathematically. They will consider how to help pupils understand calculations as well as just to do them. Resources and methods will be introduced that help children work fluently and tackle number problems with confidence.

- develop an awareness of how to create learning experiences that will make rich connections across mathematical ideas to develop fluency, mathematical reasoning and competence.
- explore fluency in the fundamentals of mathematics through increasingly complex problems
- increase understanding of reasoning mathematically
- widen experience of solving problems by applying mathematics to a variety of routine and non-routine problems.

Date and Time:30/09/14 from 9.30 am - 4.00 pmVenue:Norwich Professional Development CentreCost:£165 per delegateCourse Ref:EPGX1

This course can be delivered in clusters or to individual schools as three twilights. Please contact NIEAS advice and support team

> nieasadviceandsupport@norfolk.gov.uk to discuss and plan cluster options.

> > For more information and to make a booking

■ <u>www.schools.norfolk.gov.uk/nieascpd</u> or 🖑 nieastraining@norfolk.gov.uk

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