

I SEE MATHS ltd presents...

EXCELLENCE IN PRIMARY MATHEMATICS

Twilight training with Gareth Metcalfe

Putting reasoning and problem-solving
at the heart of the maths curriculum

Explore an evidence-based, inspiring vision for primary maths from Gareth Metcalfe, current practitioner and NCETM-accredited CPD provider.

Build understanding using equipment and images; interweave reasoning in daily lessons; develop children's problem-solving skills using the latest ideas and resources.

Details about training are listed overleaf. Sessions are planned in consultation with schools to meet their specific requirements.

Costs

Schools with 2-7 classes: £545+VAT

Schools with 8-15 classes: £595+VAT

Schools with 16+ classes: £645+VAT

Plus travel expenses (45p/mile or public transport cost).

An extra £100 is charged for each additional school attending. Schools then share the cost of the training.

Individual places are charged at £40. The host school keeps £30 of this fee.

An invoice is sent to the host school. The host school invoice all visiting schools/delegates.



BOOK NOW!

Email: iseemaths@hotmail.com

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Website: www.iseemaths.com

Continuing Professional
Development
Standard

National Centre
for Excellence in the
Teaching of Mathematics



'Particular strengths of **I See Maths** are the quality of the CPD offered in terms of subject knowledge, pedagogy and embedding this into classroom practice.'

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Common themes for CPD sessions:

Understanding in Early Number: building the counting and quantity recognition skills that enable children to become fluent with number. We explore how equipment and images can be used to build number skills as well as how spatial reasoning can be developed. We consider how these skills can be interwoven throughout children's daily experiences.

Building Sequences of Learning: planning coherent sequences of lessons that build the understanding and develop the reasoning skills of all children. This includes the use of equipment, images and bar modelling; addressing and explaining misconceptions; developing flexible mental and written calculation skills and seeing how challenges can be extended.

Embedding Reasoning: having a range of techniques for embedding reasoning within daily maths lessons so children make connections, spot patterns or thinking creatively. Using ideas from the *I See Reasoning* resources, we explore how different question types can be used: questions to encourage oral responses, the use of variation to highlight patterns and tasks with multiple possible answers.

Building Problem-Solvers: we see how to introduce problem-solving so that all children think about the deep structure of a problem and so understanding is built in coherent steps. We also see how problems can be adapted to help children to make connections between problem-solving experiences and to open up investigations, including the use of the *I See Problem-Solving* resources.

Gareth Metcalfe

Gareth is an experienced school leader and current practitioner who works schools and local authorities to promote deep, visual learning in primary maths. He has won a national teaching award, has written a range of pioneering maths resources and is the Director of 'I See Maths Ltd'. His practical training is grounded in pedagogical research, helping teachers to develop a rich and engaging maths curriculum.