

**I SEE MATHS** Ltd presents...

# Embed Reasoning Routines, Build Problem-Solvers

*Twilight training with Gareth Metcalfe*

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

## Costs, In-Person Training

Typically 120 minute session

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 £150 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 £20 of this fee.

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

## Costs, Online Training

90-120 minute session

Schools with 2-7 classes: £395+VAT

Schools with 8+ classes: £450+VAT

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

Individual places are charged at £30. The host school keeps £15 of this fee.

An invoice is sent to the host school. The host school invoice all visiting schools/delegates. Sessions can be run on different platforms and are usually run on Zoom. Sessions can be recorded and used within the school.



**BOOK NOW!**

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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.'

**National Centre for Excellence in the Teaching of Mathematics**

## Themes for CPD sessions (each session is bespoke):

**Developing Reasoning Routines:** we explore how mathematical reasoning can be embedded at all phases of learning, including during interactive whole-class teaching and in early knowledge acquisition, so that *all* children reason. A range of techniques are shared for spotting key differences between examples and addressing misconceptions. We consider how equipment and images can be used throughout the school to support reasoning. Then, a range of strategies for building reasoning into daily lessons using the ***I See Reasoning*** eBooks are shared.

**Building Problem-Solvers:** we explore how to introduce problem-solving so that all children think about the deep structure of a problem and to build understanding in coherent steps. We will explain how 'Slow Reveal' questions and carefully constructed sequences of tasks can be used. We also see how, by using sequences of challenges, all children can have success as problem-solvers and make connections between their mathematical experiences. We will see how the ***I See Problem-Solving*** and the ***Deconstructing Word Questions*** resources can be used to build children as problem-solvers.

**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, laying the foundations for long-term success. *This aspect of training can be delivered to all staff or delivered to EYFS staff specifically using a series of recorded training videos and activities.*

## Gareth Metcalfe

Gareth is an experienced school leader and current practitioner who works schools and local authorities to promote reasoning and problem-solving 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' who hold the NCETM Charter Standard for CPD. His practical training is grounded in research, helping schools to build a rich, engaging maths curriculum.