

# HOST A TRAINING DAY

## Reasoning and Problem-Solving in KS2 Mathematics

*with Gareth Metcalfe*

I See Maths Ltd

This course will show how mathematical reasoning can be embedded in all KS2 maths lessons. We will explore how equipment and images can be used to build understanding and a range of techniques for deepening learning and developing problem-solving will be shared. Make KS2 maths visual, engaging and deep!

### Cost Option 1

Host school have 4 free places

Host school delegates: £40+VAT  
or £30+VAT for events of 20+ people

Other delegates: £60+VAT

Minimum of 15 delegates

Plus travel and accommodation expenses.  
Refreshments provided by host school.

### Cost Option 2

£695+VAT for 12-18 delegates

£745+VAT for 19-29 delegates

£895+VAT for 30+ delegates

Plus travel and accommodation expenses.  
Refreshments provided by host venue.



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# Course Objectives



- To break learning down into small steps and develop sequences of lessons that build deep understanding
- To make effective use of equipment and images to represent different mathematical concepts and ideas
- To enable all children to reason mathematically in daily maths lessons
- To coherently teach problem-solving strategies using visual representations and related example questions

## Overview

This course will show how mathematical reasoning can be weaved throughout the KS2 maths curriculum. We look at how learning can be broken down into small steps, and how practical and focused experiences can be used to deepen all children's conceptual understanding.

We will look at how equipment, images and bar models can be used to model different KS2 maths concepts. A range of techniques for engaging all children in rich mathematical discussions will be shared, including the question structures used in '*I See Reasoning*'. We will also explore how opportunities can be provided for children to work at greater depth.

Finally, a range of lesson examples and resources will be used to show an evidence-based approach for teaching problem-solving. Expect a highly practical, example-rich, thought-provoking day!

'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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