



Prince Bishops
Teaching School Alliance

Growing together



Inspire Maths professional development Bar Modelling in KS1 and KS2: Developing the use of Bar Modelling

Using model drawing as a valuable resource to strengthen and deepen pupils' understanding of mathematics, focusing on fluency and mastery.

Thursday 9th November 2017
Marriott Hotel – Metro Centre Gateshead

Prince Bishops Teaching School Alliance are again working with leading UK Singapore Maths experts to offer Developing the use of Bar Modelling in Key Stages 1 and 2.

Join us to explore one of the heuristics used in the Singapore approach to teaching and learning mathematics. We will investigate the progression of bar modelling from Year 1 through to Year 6, enjoying some tricky questions from Inspire Maths on the way.

In this workshop we will explore how the bar modelling method is used to develop pupils' understanding of mathematical concepts. We will consider the bar modelling method as a valuable problem solving tool and how model drawing provides an important transition from the concrete to abstract concepts in key stages 1 and 2.

We will also have the opportunity to look at how bar modelling can be used to solve algebraic expressions. This is an interactive workshop where you will be doing the Maths, which will be inspiring, enjoyable, stimulating and thought provoking.

Aims:

- To understand the use of bar modelling as a key heuristic for problem solving
- To become familiar with the CPA approach and the 4 key bar models
- To understand how bar modelling can be integral to the teaching and learning of mathematics from Year 1 to Year 6 and beyond
- To enjoy using this powerful method to problem solve in KS1 and KS2

Time: 9.30am – 15.30pm

- **Cost: £130.00 per person.**
- **This represents a PBTSA discount of £70.00 per person**
- **A further 10% discount will be applied to those schools who register more than one participant.**

Cancellations: Once you have confirmed your place on this course an invoice will be released immediately and this will secure your place. In the event that you need to cancel this training, a cancellation charge will be incurred. Up to twelve weeks prior to the training, a full refund will be made. Within eight weeks of the training date, a 50% charge will be made. The full cost of the training will be charged should the cancellation be made within five weeks of the first session date.



Prince Bishops Teaching School Alliance

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Whitburn, Sunderland
Tyne and Wear, SR6 7EF

Benedict Biscop CE Academy
Marcross Drive, Moorside
Sunderland, SR3 2RE



Benedict Biscop
CE Academy



Cleadon
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St Paul's
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Venerable Bede
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Rachel Rayner – Maths Consultant

Rachel Rayner has been a mathematics local improvement consultant for 3 years. Previous to this she worked in primary schools in both London and Hertfordshire for over 18 years, including as a senior leader and Maths lead, she is also an accredited Maths Specialist Teacher. In her role as a consultant, she leads research projects alongside teacher practitioners from clusters of schools that improve pupils' fluency with number. Rachel's specialism lies in developing Maths practice across schools including implementing mastery for learning. She is especially passionate about ensuring that mathematics learning is underpinned by conceptual understanding through the CPA approach and well-constructed rehearsal that allow all pupils to be successful at mathematics. In evaluations of training, her input has been described as both motivational and engaging and teachers value the highly practical exemplification she seeks to provide.

Testimonials

"A refreshing update of pedagogy and a thorough update of subject knowledge. Excellent training – looking forward to implementing ideas in class!"

"Some of the best training I have ever attended! Very thought provoking!"

"Relaxed learning environment with great coverage. Lots of practical ideas and 'real' answers to lots of questions."

"Excellent and very informative. I enjoyed learning about the different theories behind teaching the mastery approach and going back to school to try out their ideas."

"I feel very inspired and can't wait to try out ideas and feedback at school!"

"I really enjoyed everything! Delivery was interesting and explained clearly!"

"Fantastic – very motivating and great consultant!"

"Can't wait to implement in our school!"



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