

Ratio and proportion: building curriculum links

Friday 13 July 2018

Friends House, Euston, London



Discover new, innovative approaches to teaching ratio and proportion problems that can help students engage with complex Maths

- Gain confidence helping students make connections and building a web of knowledge about ratio and proportion that can be applied to different question types
- Explore links between problems and help students to understand the complexity of ratio and proportion questions
- Help students to break down questions and understand how to approach problems to develop as independent learners
- Gain an understanding of how to build a foundation for ratio and proportion problems at key stage 3 and then build on this at key stage 4

Sessions include:

Lectures:

Praying souls out of purgatory

Peter Ransom

NRICHing students' experience

Charlie Gilderdale

Teacher-led workshops:

Using bar modelling to help students access advanced knowledge

Problem solving with ratio and proportion

This day is for you if:

- You would like to enrich the curriculum for all abilities and improve outcomes at all key stages
- You want to help students take ownership of their own learning and develop into independent learners
- You would like to bring the curriculum to life and enliven your lessons with fresh ideas on ratio and proportion
- You want to gain resources and activities to use in class for this topic and beyond

Prices (subject to VAT at 20%):

£195 + VAT (Schools Programme members)

£295 + VAT (non-members)

£145 + VAT (further places from the same department)

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Speakers

Putting you in touch with up-to-date subject knowledge



Peter Ransom is a Past President and Chair of Council of The Mathematical Association and a global freelance Mathematics educator. He is a Fellow of the Institute of Mathematics and belongs to the Association of Teachers of Mathematics.

Praying souls out of purgatory

Peter's practical session will involve making a Mathematical instrument based on ratio and geometry. Participants will work through enrichment materials on ratio and proportion.

Charlie Gilderdale is the NRICH Secondary Coordinator. He contributes to the NRICH website and works in schools with students and teachers. His recent work has focused on encouraging students to think mathematically.



NRICHing students' experience

Charlie will introduce some NRICH problems and delegates will consider how working on these problems will help students develop a better understanding of ratio, proportion and rates of change.

Teacher Leader

All of our days are developed and led by practising teachers

Dawn Fox has been a Maths teacher for over 20 years, working in mixed comprehensive schools. She has been a Head of Department and Assistant Headteacher. Dawn has been a Maths Consultant at the PTI Schools Programme days, and is currently the Course Leader for the PTI's New Teacher Subject days. Dawn loves to spend time solving problems and exploring Maths websites, a favourite of which is Matt Parker's Stand Up Maths.

"A great training day. It was nice to be in a group of peers where everyone got a chance to participate."

- Chloe Lee, Monk's Walk School | Maths CPD Day participant 2016



About The Prince's Teaching Institute

We know that for every student in every school, every teacher matters.

The PTI is a charity run by teachers, for teachers. We re-engage teachers with their specialist subjects, inspiring them to bring enthusiasm into class and raise the aspirations of their pupils.

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