

Problem solving: a fresh approach to teaching maths

Monday 19 March 2018

St James the Less, Pimlico, London

10 super early bird places available for £49+ VAT (T&Cs apply)

Help your students to persevere and seek solutions to complex problems during this interactive day

- Gain confidence introducing problems and guiding students to find solutions
- Build strategies to solve problems by applying mathematics in a variety of routine and non-routine scenarios
- Challenge students to overcome their initial resistance to solving open ended tasks and instill in them a desire to continue exploring puzzles outside of class
- Explore ways to use problems to introduce mathematical topics

Sessions include:

Lectures:

from Dr Colin Foster, University of Leicester

*Teaching responsibly:
problem-solving in the
mathematics classroom*

Jonny Griffiths

Teacher-led workshops:

*A problem solving approach to
teaching mathematics*

This day is for you if:

- You would like fresh ideas to enhance students' problem solving ability
- You want to gain confidence working with complex problems
- You want to explore strategies for problem solving
- You would like to challenge your students
- You want to gain resources and activities to use in class for this topic

Prices (subject to VAT at 20%):

£49 + VAT (10 super early bird places available, must be booked by 8 February 2018)

£195 (Schools Programme members)

£295 (non-members)

£145 (additional places from the same department)



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Jonny Griffiths worked as a mathematics teacher for 25 years, and is the author of the popular Risps website. Jonny is the originator of the Ritangle mathematics competition run by Integral. He has written articles for TES on mathematics education. His latest creation, an ebook on proof called 'The Proving Ground', will soon be published by the ATM.

Teaching responsibly: problem-solving in the mathematics classroom

Consider why problem-solving should win a place in our classrooms, how to write suitable tasks, and what can go right (and wrong).

Dr Colin Foster is an Associate Professor in Mathematics Education at the University of Leicester. He is interested in the design of rich mathematical tasks and ways in which teachers can use and adapt them in the classroom to support conceptual understanding of mathematics. He has particular interests in the development of mathematical fluency and in the use of confidence assessment in school mathematics.



Teacher Leader

All of our days are developed and led by practising teachers

Dr Robert Ferguson began his career researching the numerical solution of the coupled nonlinear partial differential equations. After completing his PhD, he went to work as a quantitative analyst at an American bank, pricing and modelling government debt, after which he moved into teaching. He currently works at North London Collegiate School, where he is also Head of the Middle School.



“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

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.

www.princes-ti.org.uk