April 2018

Don't miss…

The 13th Secondary Mathematics Conference, 29th September 2018 at University of Stirling http://www.m-a.org.uk/secondary-events

One Day Conference for Scottish Teachers of Secondary Mathematics

29th September 2018
University of Stirling

Opening Plenary
Maureen McKenna, OBE

Don't miss…

The 7th Primary Mathematics Professional Development Day, 13th October 2018 at Wycombe High School http://www.m-a.org.uk/primary-events .

Branch Events in June

Yorkshire Branch, Sat 9th June 2018 , 14:00 for 14:30
Venue: *University of Leeds, School of Mathematics, Room MALL 1, Leeds LS2 9JT*
Jane Turnbull - YBMA**:** *A story of Mathematics told through my stamp collection*

East Midlands Joint MA/ATM Branch, *Saturday 30th June, 09:00 -12:15*

Venue: Fraser Noble Hall, Leicester University, Leicester, LE1 7RA
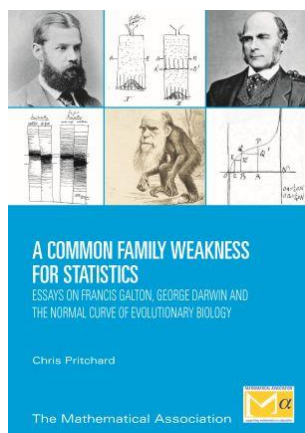Dave Hewitt and Tom Francome : *Practising Mathematics - Developing the Mathematician as Well as the Mathematics*

Please see <u>website page</u> for further details.

New featured resources

New A Common Family Weakness for Statistics
Chris Pritchard

This book tells the story of the assistance that George Darwin, Charles Darwin's son, gave to one of the great pioneers of statistics, Francis Dalton. The seven essays describe Galton's efforts to use the normal curve to extend the theory of evolution to human intelligence. Those efforts led to the development of order statistics (including the median, quartiles and interquartile range) and the use of cumulative frequencies and the ogive. They culminated in the concepts of regression and correlation which are now so central to statistics. Galton's story has been told many times before but this is the first time that George Darwin's supporting role has been revealed.
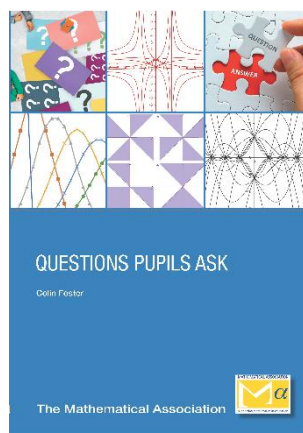
Non-Members £8.00   **Members £6.00**

Questions Pupils Ask
Colin Foster

If two minuses make a plus, why don't two pluses make a minus? Is there a formula for factorial? And why isn't pi a whole number? In this collection of over 40 articles from the journals *Mathematics in School* and *Symmetry Plus*, Colin Foster takes *Questions Pupils Ask* about mathematics as his starting point for a series of reflections on learning and teaching secondary mathematics.
Also included are articles addressing a diverse array of mathematical topics, spanning number, algebra, geometry and statistics, and involving puzzles, applications of mathematics to daily life and tasks to take into the classroom.
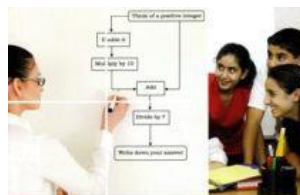
Non-Members £15.95   Members £13.45

Flowchart Investigations
Colin Foster

Flowcharts are visually engaging ways of describing mathematical processes and can offer a starting point for rich mathematical activity.

Non-Members £9.99   Members £7.59

Special Spring Offer
10% off Colin Foster books during May

Save the date

The MA and ATM are delighted to announce that there will be a jointly badged Annual Conference in 2019 at Chesford Grange, Warwick, 15-18 April – put the dates in your calendar now to avoid disappointment!

Introduction of the Advanced Mathematics Premium

We welcome the introduction of the Advanced Maths Premium to encourage and support post-16 providers to maintain, promote and expand their Level 3 mathematics offers for the benefit of their students. This additional funding is available to institutions that succeed in enrolling "additional" students on Level 3 mathematics courses in autumn 2018 compared to the average enrolled in 2015/16 and 2016/17. It is pleasing to hear that the list of eligible qualifications will be expanded in due course to include A level statistics.

Guidance from the Education and Skills Funding Agency: **https://www.gov.uk/guidance/16-to-19-funding-advanced-maths-premium**

National Numeracy Day

16th May will be the first ever National Numeracy Day. *'We are all numbers people'* is our theme for 2018 and will focus on helping more adults to understand how and why they should improve their numeracy level, with a particular focus on managing family finances and better employment prospects.

Supported already by the Ufi charitable trust, KPMG and Experian, and fronted by Martin Lewis, Rachel Riley and Andy Haldane, it will aim to raise awareness of the importance of numbers in everyone's lives and encourage action to increase numeracy levels across the UK.

EEF Recommendations

Have you seen the research-based recommendations from the Education Endowment Foundation on improving mathematics teaching at Key Stages Two and Three? Some resources can be found here, including their eight key take-aways, as shown below:

1	2	3	4
Use assessment to build on pupils' existing knowledge and understanding	Use manipulatives and representations	Teach pupils strategies for solving problems	Enable pupils to develop a rich network of mathematical knowledge

5 Develop pupils' independence and motivation

6 Use tasks and resources to challenge and support pupils' mathematics

7 Use structured interventions to provide additional support

8 Support pupils to make a successful transition between primary and secondary school

Compiled by Lucy Rycroft-Smith