

Email:

MATHEMATICAL ASSOCIATION



supporting mathematics in education

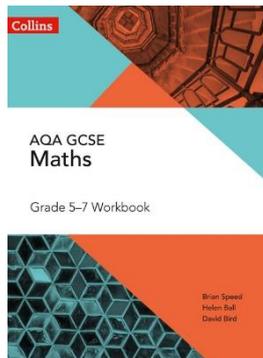
Welcome to the MA monthly newsletter

The Mathematical Association
259 London Road
Leicester LE2 3BE
Email: office@m-a.org.uk

February 2019

Advertisement

Resource from HarperCollins



Save 30% on Grade Booster Workbooks before 31st March. Use code 30WORKBOOK at the checkout.

Provide graded support for every learner this year with AQA and Edexcel Workbooks for levels 1-3, 4-5, 5-7, and 7-9. These resources use targeted practice and exam-style questions to help all students reach their potential. Order online here: www.collins.co.uk/mathsworkbooks.

Stirling One Day Event

Booking now open for the **One Day Conference for Teachers of Mathematics** on the **5th October 2019** at the **University of Stirling**.

<https://www.m-a.org.uk/one-day-events>





2019 Joint MA-ATM Conference

Have you booked your place for the jointly badged annual conference in 2019 at Chesford Grange, Warwick from **15-18 April**? The theme of the conference will be Mathematics. Collaboration. Creativity

Autograph are still offering exciting bursaries of up to £200 for the upcoming [2019 MA / ATM Conference](#). T & Cs apply; enquiries to Douglas Butler: debutler17@gmail.com



MA Annual General Meeting

A reminder that the MA Annual General Meeting will be held at 1745h on Tuesday 16th April 2019 at the MA-ATM joint conference 'Mathematics - collaboration - creativity' at Chesford Grange Hotel, Warwick CV8 2LD. The Presidential address 'Reasoning as a mathematical habit of mind' will be given by Mike Askew at 1400-1530h on the same day, same venue, and members are very welcome at both events whether or not they are taking part in the wider conference. The agenda for the AGM is on the MA website now <https://www.m-a.org.uk/Annual-General-Meetings>.



20th Anniversary of the Primary Mathematics Challenge

The Mathematical Association is extremely proud that 2019 marks the 20th year of the Primary Mathematics Challenge and the number of participating schools continues to increase.



First Mathematical Challenge

Welcome to our brand new Challenge!

The First Mathematical Challenge (FMC) has been specifically created to give all pupils in Years 3 and 4 in England and Wales, P4 and P5 in Scotland and Years 4 and 5 in Northern Ireland, the opportunity to take part in a National Challenge. It is also a fantastic starting block to progress to the Primary Maths Challenge in Years 5 and 6!

The FMC has been created for all your pupils. It is our intention that mathematics is portrayed as enjoyable, exciting and engaging for younger pupils and the FMC should provide an entertaining yet educational ending to the school year.

If you are interested in being added to a mailing list for more information please email fmc@m-a.org.uk



Personal, Trainee and NQT Membership Renewal Notices

Personal, Trainee and NQT Members look out for your Renewal Notice to ensure you receive your journals in 2019.

This coming year we are also pleased to offer a **monthly direct debit scheme**, which allows easy payments of the fee over a 12-month period.

Membership renewal can be done online at <https://www.m-a.org.uk/personal-membership> or by completing the form at the bottom of the letter we sent to you and returning it to us with your payment.



Announcements from Government

The MA is always active in drawing attention to subject-specific needs, including subject-specific briefings for Ofsted inspectors via the Royal Society, the Joint Mathematical Council of the UK, the APPG for the Teaching Profession, and in other policy groups.

Ofsted have recently announced a consultation on the new inspection framework;

<https://www.gov.uk/government/consultations/education-inspection-framework-2019-inspecting-the-substance-of-education>

The DfE have also published two documents: one is a policy paper on teacher recruitment and retention;

<https://www.gov.uk/government/publications/teacher-recruitment-and-retention-strategy>

Another is guidance on the Early Career Framework (ECF) recently publicised in the media;

<https://www.gov.uk/government/publications/supporting-early-career-teachers>

At the January Teaching Committee meeting the three Government announcements affecting England detailed above were briefly discussed and

the Teaching Committee will be proposing a response to Council. Committee members have been asked for their views before this happens.

The MA, as a subject association, is very keen to represent the views of its members. Of course to do this, we need to know those views – please do contact Peter Ransom as Chair of Council (p_ransom@hotmail.com) or Mel Muldowney (mel@justmaths.co.uk) as Chair of Teaching Committee if you have any thoughts on the three announcements above. Don't forget to provide some background context to your views as this will make them much more relevant and useful.

More information on the MA response to these will be released in due course. Please keep an eye on the website and our social media.



60 Second Survey – KS3 Mathematics

The Mathematical Association would like to hear from any teachers of KS3 mathematics in the UK.

In your opinion, what issues are currently affecting the teaching and learning of mathematics in KS3?

Enter the Survey [here](#).

A summary of answers to this survey will be published once sufficient responses are received.



Branch Events

Branch: Liverpool

Title: *Pop Maths Quiz*

Presenters: Barry Grantham, Tony Carter, Ian Jarman

Date: Saturday, 2 March 2019

Time: 10am-2pm

Summary: The Pop Maths Quiz is a TEAM competition that runs a bit like a pub quiz but without any alcohol! Teams consist of four students (under 19 years) who, during the Quiz, work as a team to attempt to solve a number of questions on a wide range of mathematical topics. They then have the opportunity to give their answers via an electronic response system. Not all questions require specific A-level maths knowledge but all questions have a mathematical flavour.

Venue: Liverpool John Moores University, James Parsons Building, Byrom Street, Liverpool L3 3AF

Branch Contact: [Barry Grantham](#)

Door Charge: n/a

Branch: Sussex

Title: *Annual Problem Drive*

Presenter: Sussex Branch Committee

Date: Monday, 4 March 2019

Time: 4.30-6.30pm

Summary: The Problem Drive consists of five rounds (each of 10-15 minutes duration) with three problems to solve in each round (so they are not working with the same team in each round). At the end, there are prizes for participants with the highest scores.

Venue: Roedean School, Roedean Way, Brighton BN2 5RQ.

Branch Contact: [Paul Harris](#)

Door Charge: n/a

Branch: London

Title: *Geometry*

Presenter: Don Steward

Date: **Saturday, 16th March 2019**

Time: **10am - 12.30pm**

Summary: MEDIAN is a large collection of classroom tasks that promote thinking and sense-making. Don Steward has worked for many years to collect and disseminate what he views as effective ideas for teaching. He shares these via his popular blog. In this session Don will present ideas for a wide range of geometry tasks, promoting the use of squared dotty paper (as Pierre Van Hiele recommended).

Venue: UCL Institute of Education, Elvin Hall, 20 Bedford Way, London WC1H 0AL

Branch Contact: [Mark Horley](#)

Door Charge: The charge will be £10 cash to be collected on the door unless you have already attended an event this academic year and already paid your £10. All sessions are free for teachers in their initial training year. Book your place [here](#)

Branch: Cambridge

Title: *Variation Theory – dispelling the myths*

Presenter: Geoff Wake and Lucy Rycroft-Smith

Date: Tuesday, 19 March 2019

Time: 4.30-6.00, doors open at 4

Summary: Variation theory is much talked about and often misunderstood. Come and discuss what it is and ways of incorporating it into classroom practice.

Venue: Hosted by NRIC, Centre of Mathematical Sciences, Wilberforce Road, Cambridge CB3 0WA

Branch Contact name/email: [Lynne McClure](#)

Door Charge: Members free, non-members £5

Branch: Yorkshire

Title: *To Infinity and Beyond*

Presenter: Dr Katie Chicot (Open University/MathsWorldUK)

Date: Wednesday, 3rd April 2019

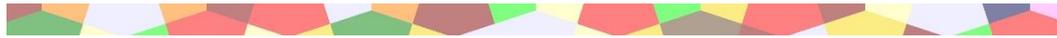
Time: 2.30-3.30pm

Summary: W P Milne Lecture for Sixth Formers

Venue: University of Leeds, Leeds LS2 9JT

Contact: For more details and to book places for the W.P.Milne lecture and the above options go to www.leeds.ac.uk/festivalofscience and use the online booking form. Enquiries to festivalofscience@leeds.ac.uk

Cost: Attendance at this lecture is free, but places must be booked in advance.



Committee News

Editorial Board

Members should have received their copies of *MA News* and *Mathematical Pie*. The March issue of the *Gazette* should be with subscribers any day now. On February 23rd there was the annual meeting of the MiS editorial team. There were good discussions of how things stood at present and a look ahead to what special items should be put into the issues in Volume 50 which is not far off.

Publications Committee

This group met at MA HQ on February 2nd. There were good discussions of the progress which is being made to enhance the MA range of books and such like. Plans are well ahead for a thorough update of the MA Revision Cards to make them even better. The committee is still in need of more teacher-members.

Professional Development Committee

This met in London on 16th February. The current plans for the one-day events scheduled this year for Stirling (in October), High Wycombe (in November) and a new venture in York at the end of November. It is challenging nowadays for chargeable CPD to be viable but we have to hope that members and others recognise that the MA produces high quality events with surpluses being reinvested in the mathematics community.

Bill Richardson



News of Publications

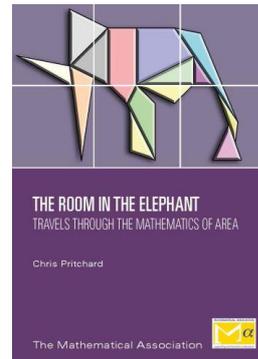
***New* The Room in the Elephant**

Chris Pritchard

This book continues the journey through the geometry of common shapes and the calculation of area that was begun in *A Square Peg in a Round Hole*. Written to be accessible to an able and interested 18-year old, it aims to appeal

to students and teachers of mathematics and to anyone with a fascination for the subject.

Did Archimedes really play with tangrams a thousand years before their appearance in China? Why were building blocks developed in Germany decades before LEGO made its entrance? What advantage is there in making the paths around your garden 2m wide? Discover Georg Pick's method for finding areas on a grid of points, play with Kürschák's tiles, help Mary Boole with her needlework and explore Japanese temple geometry. Then tackle the multitude of problems in the final chapter.

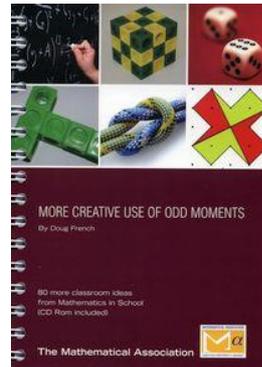


Members £12.60 Non-members £18.00

More Creative Use of Odd Moments

Edited by Doug French

Odd moments are the occasions when half the class arrives late for some reason or when the main business of the lesson is completed before the bell or whenever you as teacher contrive to find a short period of time to discuss an interesting problem. The contents of this book provide a variety of ideas to use creatively in such odd moments. Each item contains something to discuss or explore which can be adapted or extended to suit a wide range of students. These odd moments originally appeared in *Mathematics in School* and are reproduced in the book with additional notes on each idea.



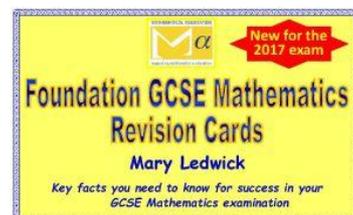
More Creative Use of Odd Moments is a sequel to the first collection of ideas, which appeared as *The Creative Use of Odd Moments*.

Members £10.50 Non-members £15.00

Foundation GCSE (9-1) Mathematics Revision Cards

Mary Ledwick

These updated and thoroughly revised editions have been completely rewritten for the 2018 specification. Keeping their hugely successful format, these cards delightfully present the key facts needed for the 2017 GCSE mathematics examinations in a clear and memorable way. The handy 'notes' box on the back of each card allows students to personalise their own revision aid. The cards can be used in multiple ways throughout the course as well as for last minute revision.



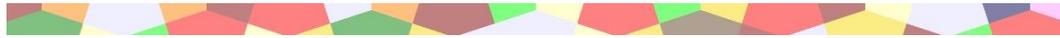
	1-4 Packs	5+ packs	100+ packs
Members	£5.25	£4.90	£3.50

Non-members

£7.50

£7.00

£5.00



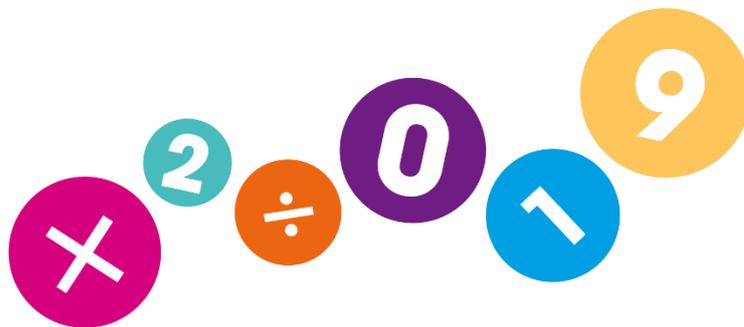
Celebrate Maths this June with Maths Week London

We are inviting all schools from across London to join us for a celebration of maths in the capital. We believe passionately that maths is for everyone! Through Maths Week London, we want to change perceptions about maths as a subject and encourage all children, teachers and parents to share in a love of maths.

Together we can:

- Encourage a positive attitude towards maths
- Improve confidence and fluency in maths
- Promote the value of maths as an essential skill for every career

Register for your free starter pack and find out more about what activities and events you can get involved in at www.mathsw eklondon.org



mathsweek
LONDON
10-14 JUNE 2019



Compiled by Tom Bennison

