

## What next?

### Further Masterclasses in your area

For follow up masterclasses in your area please contact your local organiser or email the Ri Maths Team.

### NRICH

Join the free, online maths club at [www.nrich.maths.org](http://www.nrich.maths.org) to enjoy interesting problems, investigations and games for all ages and abilities from five to 19. You can also benefit from the online maths help and discussion service.

### UKMT Mentoring

The UKMT mentoring scheme provides an opportunity for participants to work with a mentor in solving a range of mathematical problems (sent by email), to inspire and stretch pupils' mathematical skills. For more information, please see the website, [www.mathcomp.leeds.ac.uk/mentoring/](http://www.mathcomp.leeds.ac.uk/mentoring/)

### SYMmetry plus

SYMmetry plus is the magazine of the Mathematical Association (MA) and is aimed at young mathematicians. For more information, please see the website, <http://syms.org.uk/>.

### Suggested reading

There are many authors writing on a range of topics in mathematics. We recommend books by the following:

- David Acheson
- Keith Devlin
- Rob Eastaway
- Martin Gardner
- Kjartan Poskitt
- Ian Stewart

## Further information

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The Royal Institution  
of Great Britain

## Ri Mathematics Masterclasses

Staying in touch with the mathematics  
community



### How did it start?

Masterclasses were inspired by the enthusiastic response to Professor Sir Christopher Zeeman's 1978 Christmas Lectures 'Mathematics into pictures'. Ri masterclasses were launched in 1981. Until recently, Sir Christopher has given masterclasses as part of Ri series on the topics *Geometry and perspective* and *Gyroscopes and boomerangs*.

The Christopher Zeeman medal is an award given every three years to mathematicians who are involved in the public promotion of mathematics.

Since 1990, the mathematics masterclass programme has been generously supported by the Clothworkers' Foundation.

[www.rigb.org](http://www.rigb.org)



*Primary and Secondary masterclass groups, 2008-09*

### Royal Institution Mathematics Masterclasses

The Ri serves as an umbrella organisation, coordinating a UK wide masterclass network. We offer guidance, support and resources to help set up series and develop stimulating classes and activities – working with teachers, students, academics and industry. We have also developed trans-disciplinary masterclasses, involving art, design, engineering and science.

The Royal Institution (Ri) Mathematics Programme offers a range of exciting events for young people from primary through to secondary, enabling students and their teachers to experience mathematics from new and imaginative viewpoints. Our events complement the school curriculum but our focus is to introduce young people to the

wider mathematical landscape through investigations, challenging problems, and hands-on activities.

### Annual events

Masterclass students, like you, from around the country are invited to attend a day of mathematical activities at the Ri in June each year (now also at Liverpool University, Edinburgh University and Plymouth University).



*Puzzle solving at the June celebration at the Ri*

### Monthly Maths Circles in London

Maths Circles are run monthly at Imperial College for those students who attended masterclasses in year 9 when they are in year 10 and 11. Applications can be made to the Ri.

### Sixth Form Masterclasses in London

Series of six masterclasses are held on Saturday mornings for students in year twelve. Applications can be made to the Ri.

### Royal Institution mathematics activities

The Ri is also involved in supporting maths fairs and organising lectures for general audiences and family events such as an Art-Mathematics-Science ‘fun day’.

### Christmas Lectures

The Royal Institution Christmas Lectures are our biggest events; demonstration-packed, fun-filled science events for young people. They are broadcast on UK television every Christmas and have formed part of the Christmas tradition for generations.



There have been three series of Christmas Lectures with mathematics as their theme, in 1978, 1997 and 2006. Our website contains an archive of Christmas Lectures webcasts that can be viewed free of charge.

### Membership

Faraday membership is available to those aged between 14-25 years and entitles members to free or discounted tickets to events, as well as a range of other benefits. For more information on this, please email [members@ri.ac.uk](mailto:members@ri.ac.uk).

### Public Events



Whether you are new to a subject or are familiar with it, our year round programme of events for the general public will enable you to engage with the latest and most interesting ideas in science and mathematics. As a general guide, most of the events are suitable for people aged 14 and above although this will vary slightly depending on the topic.