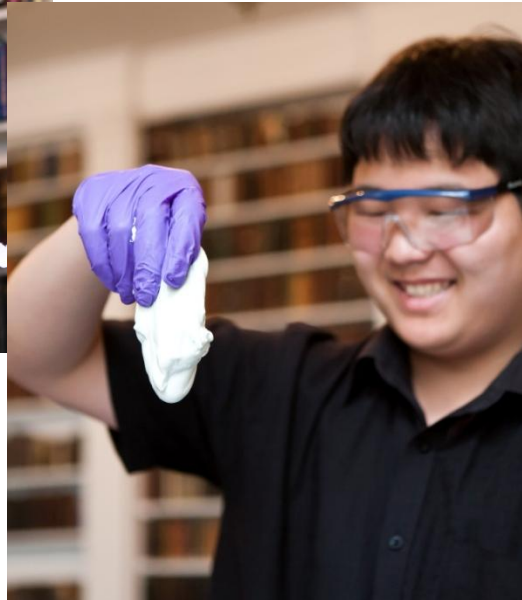


Moving STEM on in School

Samantha Durbin
Royal Institution of Great Britain



- **Why we do it**
- **Ri activities**
- **Next steps**



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Why do we need to do anything?

- **Problems with the perception of science, technology and maths at school level and beyond**
- **Not enough time in the curriculum**
- **Lack of awareness of careers and applications**
- **Increasing demand for STEM graduates**



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STEM enrichment: Good for students

- **Increase enjoyment**
- **Increase awareness of applications and career opportunities**
- **Show how the subjects are relevant to the students involved**
- **Show how subjects are inter-linked**
- **Inspire the students who are bored & motivate the students who think it will be difficult**



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STEM enrichment: Good for schools

- Increase the profile of the school
- Potential to affect recruitment
- Opportunities to work with other schools and organisations
- OFSTED
- Results



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STEM enrichment: Good for teachers

- Try new things
- Do all the fun stuff
- Do the things which won't fit into the curriculum
- Motivate & inspire students
- Develop own teaching skills



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Royal Institution Activities



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Beyond the Royal Institution

Christmas Lectures

Started in 1825 by Michael Faraday

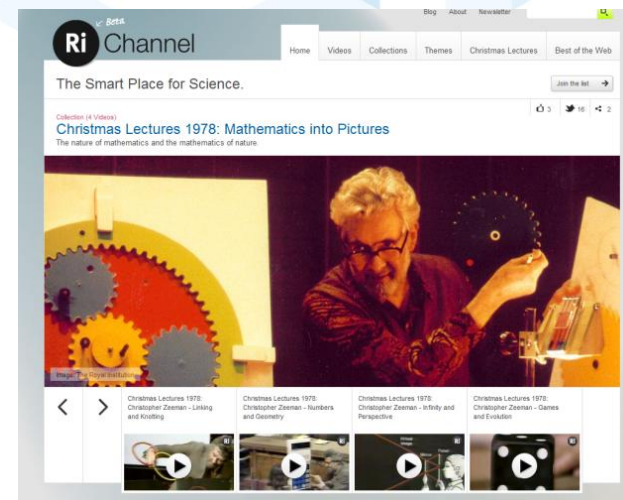
A leading scientist presents a series of lectures for 11-18 year olds

Shown on the BBC

Ri Channel www.richannel.org

Started in 2011, the online channel allows people the world over to enjoy our lectures and related content from many other excellent sources, free of charge.

The mathematics team is particularly excited that recently, Prof Christopher Zeeman's 1978 series 'Mathematics into Pictures' is now available. It's these lectures that inspired the masterclass programme.



Ri Masterclasses

- Excitement, beauty, practice & value of mathematics
- Different topics every week
- Different speakers
- Meet other pupils with similar interests

Primary mathematics masterclasses:
over 60 series nationally

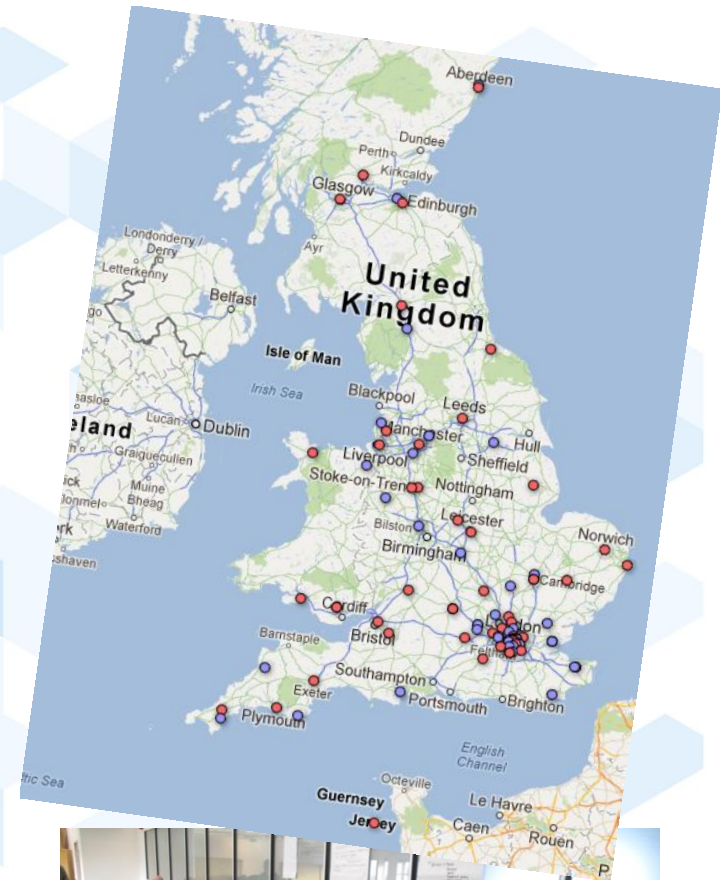
Secondary mathematics masterclasses:
over 60 series nationally

New network of secondary engineering
masterclasses

www.rigb.org/maths



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Next Steps

- **Contacts:**
 - Ri Maths Team
 - STEMNET Contract Holders
 - Other activity providers
- **Support:**
 - STEM Clubs Network
 - British Science Association: CREST
- **Ideas:**
 - STEM Directories
 - National STEM Centre e-library
 - STEM NRICH & sister websites



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