

**Further Mathematics Support Programme**

[www.furthermaths.org.uk](http://www.furthermaths.org.uk)



# Working with the Further Mathematics Support Programme

*EPC Recruitment and Admissions Forum*

*4 November 2013*

*Andrew Ramsay*

Managed by

**MEI**

Innovators in  
Mathematics  
Education

Funded by

Department for  
**Education**

# About the FMSP



- ❑ The FMSP was created by Mathematics for Education and Industry with funding from the Gatsby Foundation
- ❑ Following a successful pilot, the Further Mathematics Network (FMN) was established in 2005 to ensure that all who could benefit had access to Further Mathematics
- ❑ The FMSP followed on from the FMN in 2009 and is managed by the same team of people at MEI who set up and ran the FMN

# What we do



- ❑ The FMSP works directly with teachers and students
- ❑ via 29 local Area Coordinators
- ❑ to improve mathematics provision for 14-19 year olds and
- ❑ to promote uptake of post-16 mathematics, including Further Mathematics

# How we do it

- ❑ Tuition: face to face
  - FMSP Tutors
- ❑ Tuition: online
  - Integral (web) Resource
  - Live Interactive Lectures
- ❑ Teacher Support
  - Live Online Professional Development
  - Teacher Networks
  - Courses: Teaching A level Mathematics; Teaching Further Mathematics
  - Key Stage 4 extension and enrichment CPD
- ❑ Enrichment, including:
  - Senior Team Mathematics Competition
  - Year 10 Mathematics Competition
  - Student and teacher problem-solving
- ❑ STEP and AEA support

# Results



Since 2003...

- ❑ Annual number of **Further Mathematics A Levels** achieved is up by **160%** (from 5315 to 13821)
- ❑ In the same time Mathematics A Levels are up by 74% (from 50602 to 88060)

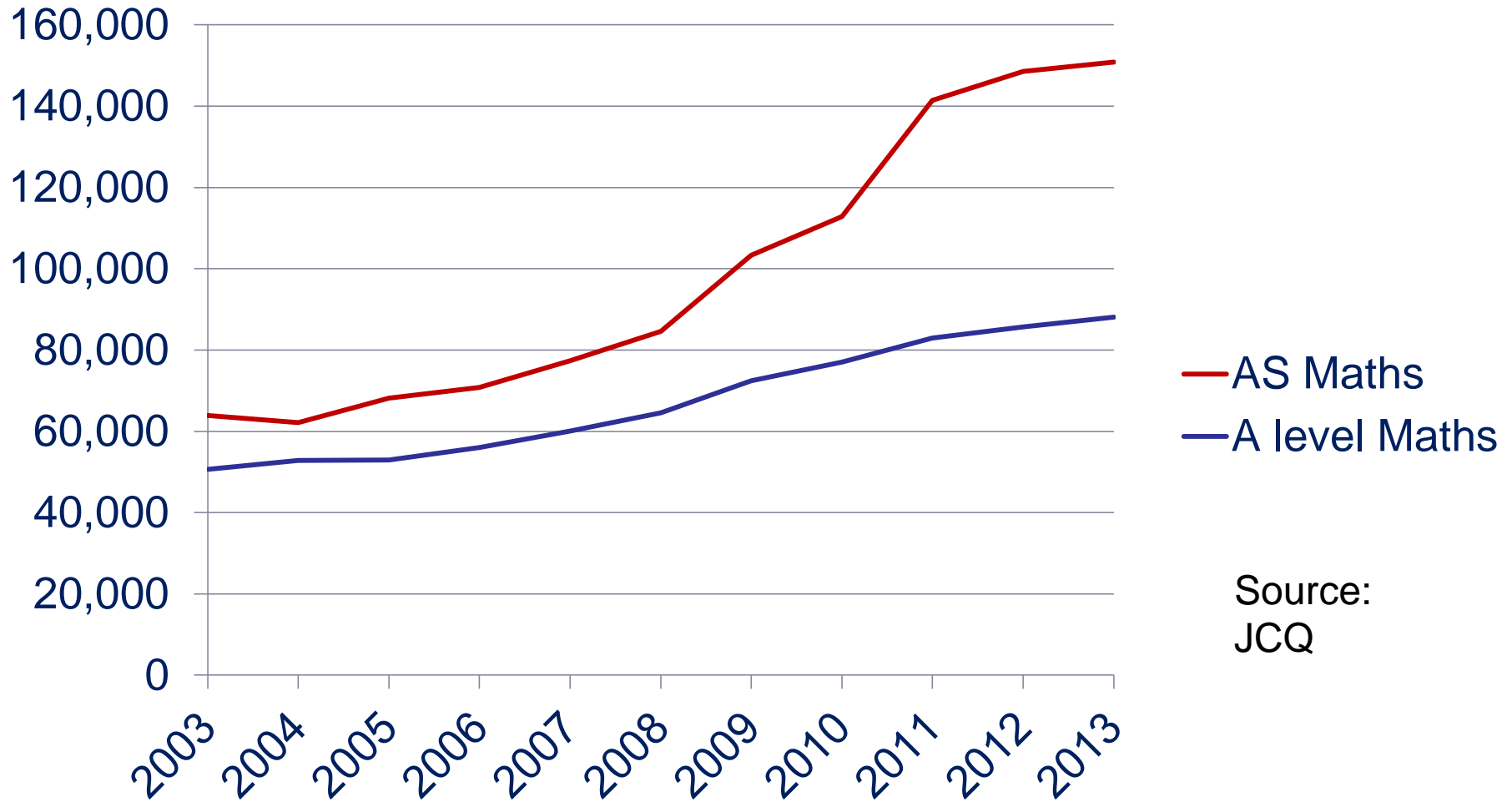
A Level FM entries are now ahead of law; music; ICT; and computing  
Nearly 70% of all state secondary schools now offer it

- ❑ Annual number of **Further Mathematics AS Levels** achieved up by **570%** (from 3371 to 22601)
- ❑ In the same time AS Mathematics is up by 136%

# A level Mathematics numbers (UK)



Managed by **MEI**  
Innovators in Mathematics Education

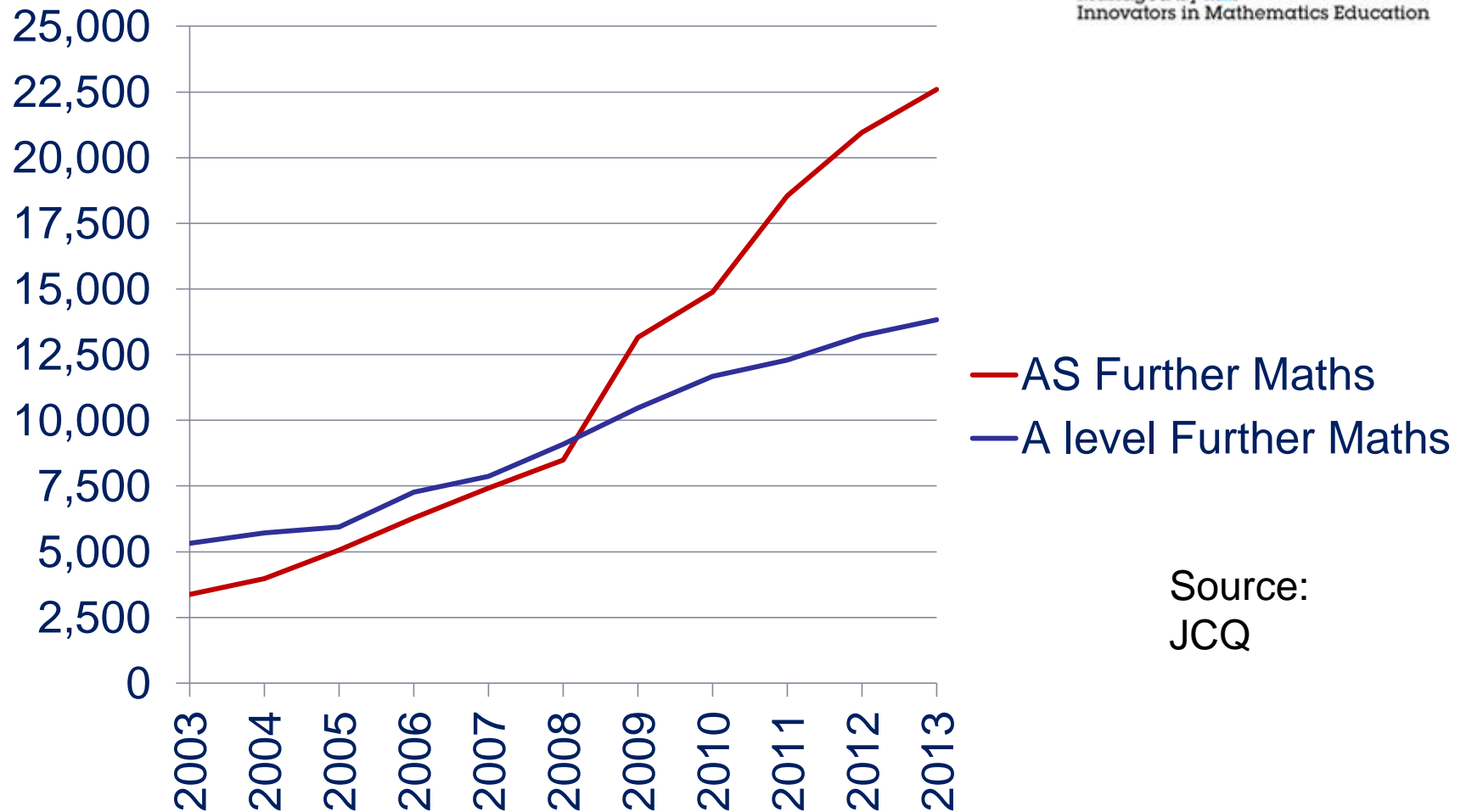


Source:  
JCQ

# Further Mathematics numbers (UK)

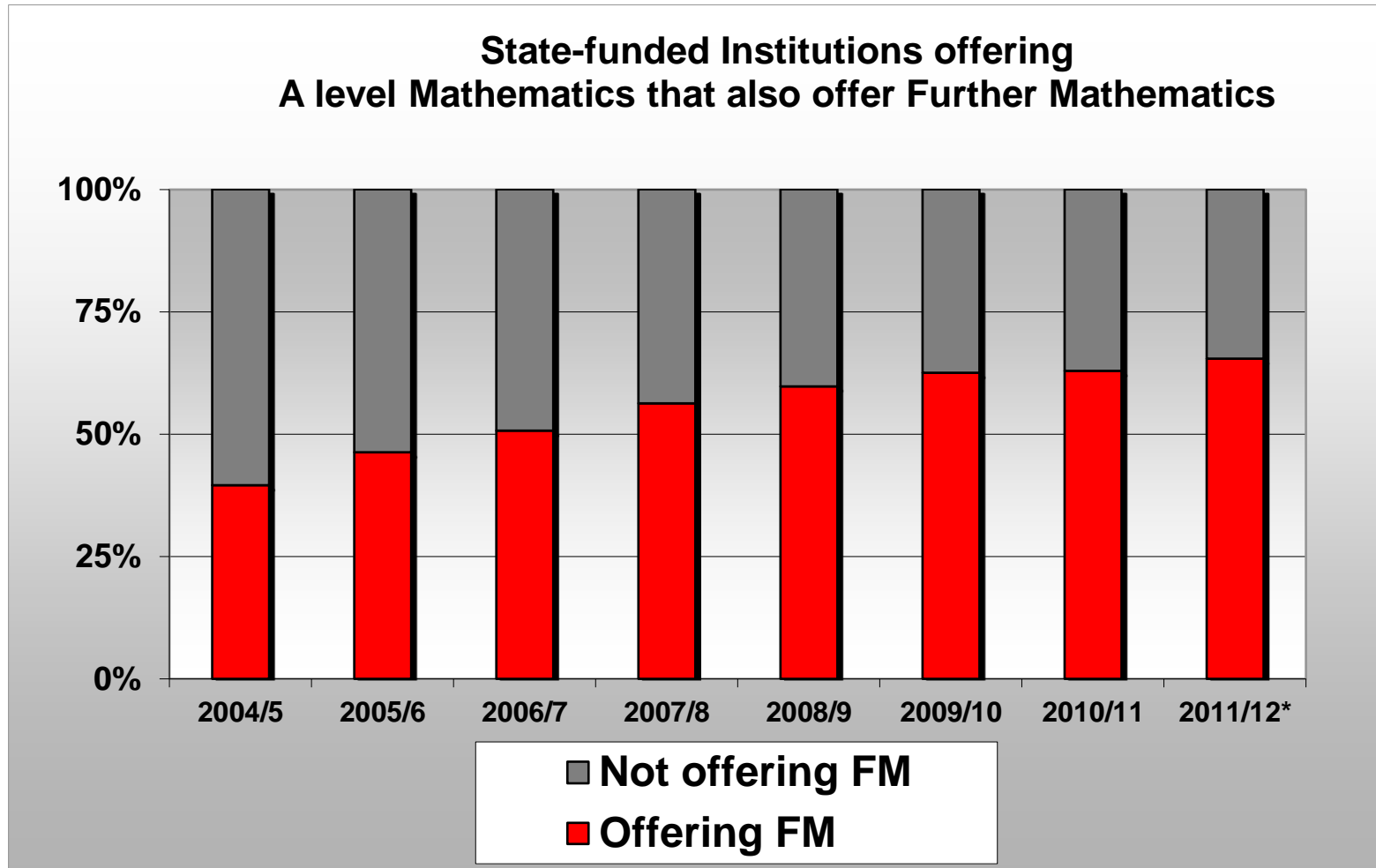


Managed by **MEI**  
Innovators in Mathematics Education



Source:  
JCQ

# Growth in institutions offering Further Mathematics







# What FMSP can provide for you



- ❑ Publicity to attract students with good mathematics skills
- ❑ An excellent way to ensure the supply of good students continues to expand
- ❑ Contacts in schools via the Area Co-ordinators
- ❑ Advice on the school mathematics curricula

# University Involvement



- The FMSP already works with many universities:

Bath, Birmingham, Cambridge, Canterbury, Derby, Durham, Essex, Exeter, Greenwich, Hull, Imperial College, Lancaster, Leeds, Leicester, Liverpool, Loughborough, Keele, Kingston, Manchester, Newcastle, Nottingham, Northampton, Oxford, Plymouth, Royal Holloway, Southampton, Surrey, Sussex, UCL, UEA, UWE, Warwick, Wolverhampton

# Encouraging FM

## □ University of Birmingham:

*Further Mathematics A level or AS level is an excellent preparation for many degree programmes, not just mathematics, and we strongly encourage you to take it if it is available to you. Approximately 40% of our intake had Further Mathematics A level or AS level.*

*We typically make a slightly lower offer to students taking A2 Further Mathematics.*

*Taking Further Mathematics will mean that you have a much better idea of what to expect from our degree programmes because you will have already seen more mathematics.*

# Encouraging FM

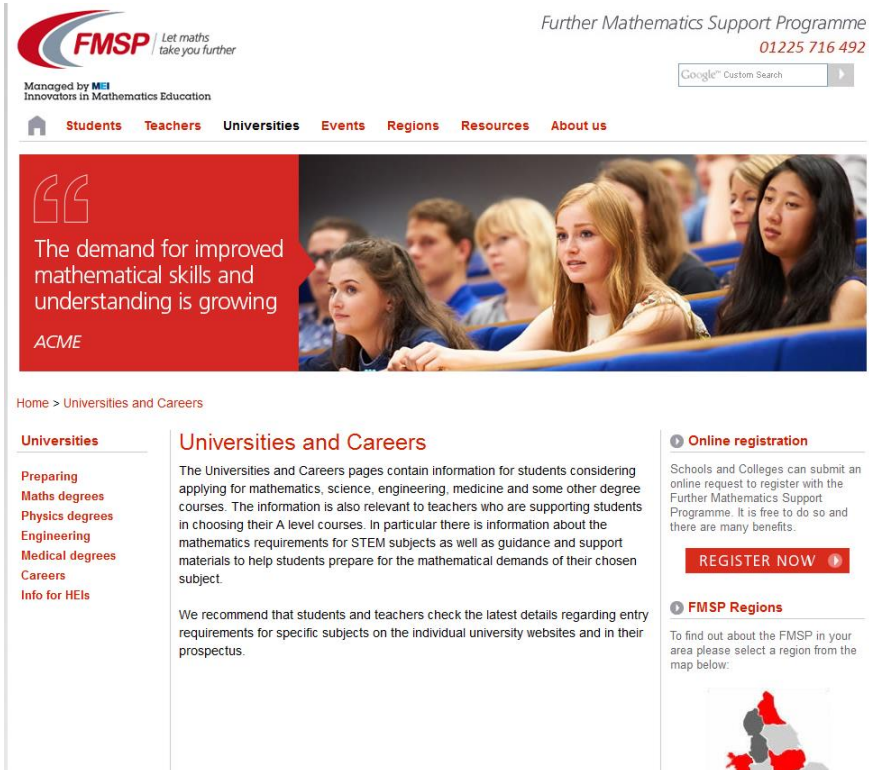


## □ University of Birmingham:

*We are aware that some schools are not able to offer Further Mathematics and so we do not make it a requirement of our offers.*

*Our first year programmes are, therefore, carefully designed to take into account the different qualifications that students arrive with.*

*If Further Mathematics is not available at your school, you may be able to take it through the Further Maths Support Programme. For more information, go to [www.furthermaths.org.uk](http://www.furthermaths.org.uk)*



The screenshot shows the homepage of the Further Mathematics Support Programme. At the top left is the FMSP logo with the tagline 'Let maths take you further'. To its right, it says 'Managed by MEI Innovators in Mathematics Education'. The main header includes the text 'Further Mathematics Support Programme' and the phone number '01225 716 492'. Below this is a search bar with the text 'Google™ Custom Search'. A navigation menu contains links for 'Students', 'Teachers', 'Universities', 'Events', 'Regions', 'Resources', and 'About us'. The main content area features a large red banner with a quote: 'The demand for improved mathematical skills and understanding is growing' attributed to 'ACME'. Below the banner is a photo of students in a lecture hall. The page is titled 'Home > Universities and Careers'. On the left is a sidebar with a 'Universities' section containing links for 'Preparing', 'Maths degrees', 'Physics degrees', 'Engineering', 'Medical degrees', 'Careers', and 'Info for HEIs'. The main content area has a heading 'Universities and Careers' and text explaining that the pages contain information for students considering applying for mathematics, science, engineering, medicine and some other degree courses. It also mentions that the information is relevant to teachers supporting students in choosing their A level courses. A 'REGISTER NOW' button is visible. Below this is a section for 'FMSP Regions' with a map of the UK.

Visit [furthermaths.org.uk](https://furthermaths.org.uk)

Meet with **Richard Lissaman** and **Kevin Lord** today