

**MEI**®

Mathematics  
Education  
Innovation

Over 50 years  
at the forefront  
of Mathematics  
Education



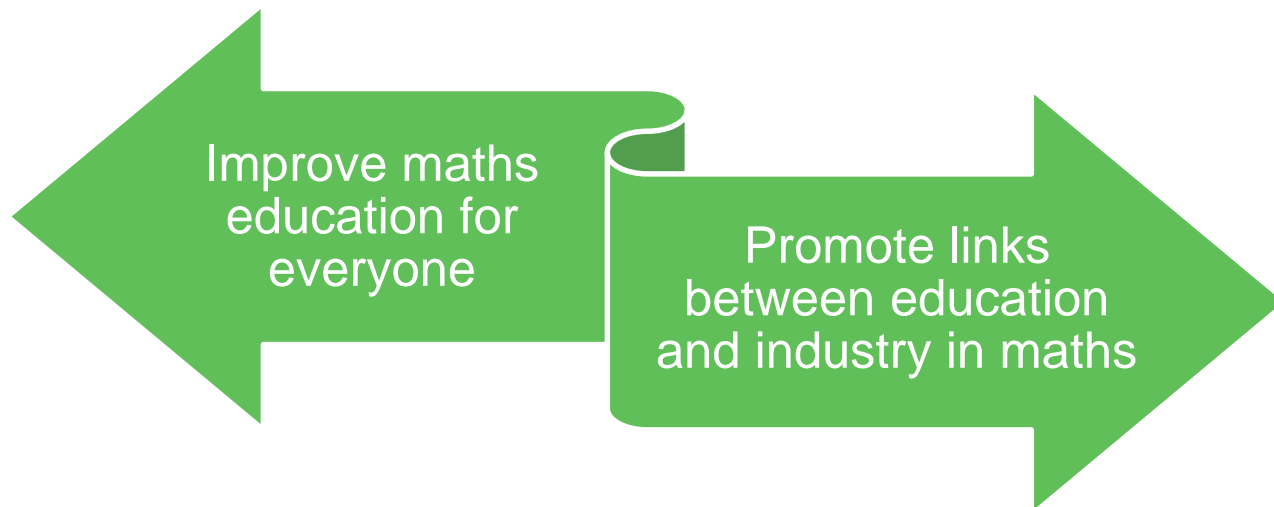
# MEI's support for post-16 maths

Katharine Davies

# Who are we?

A national maths education charity

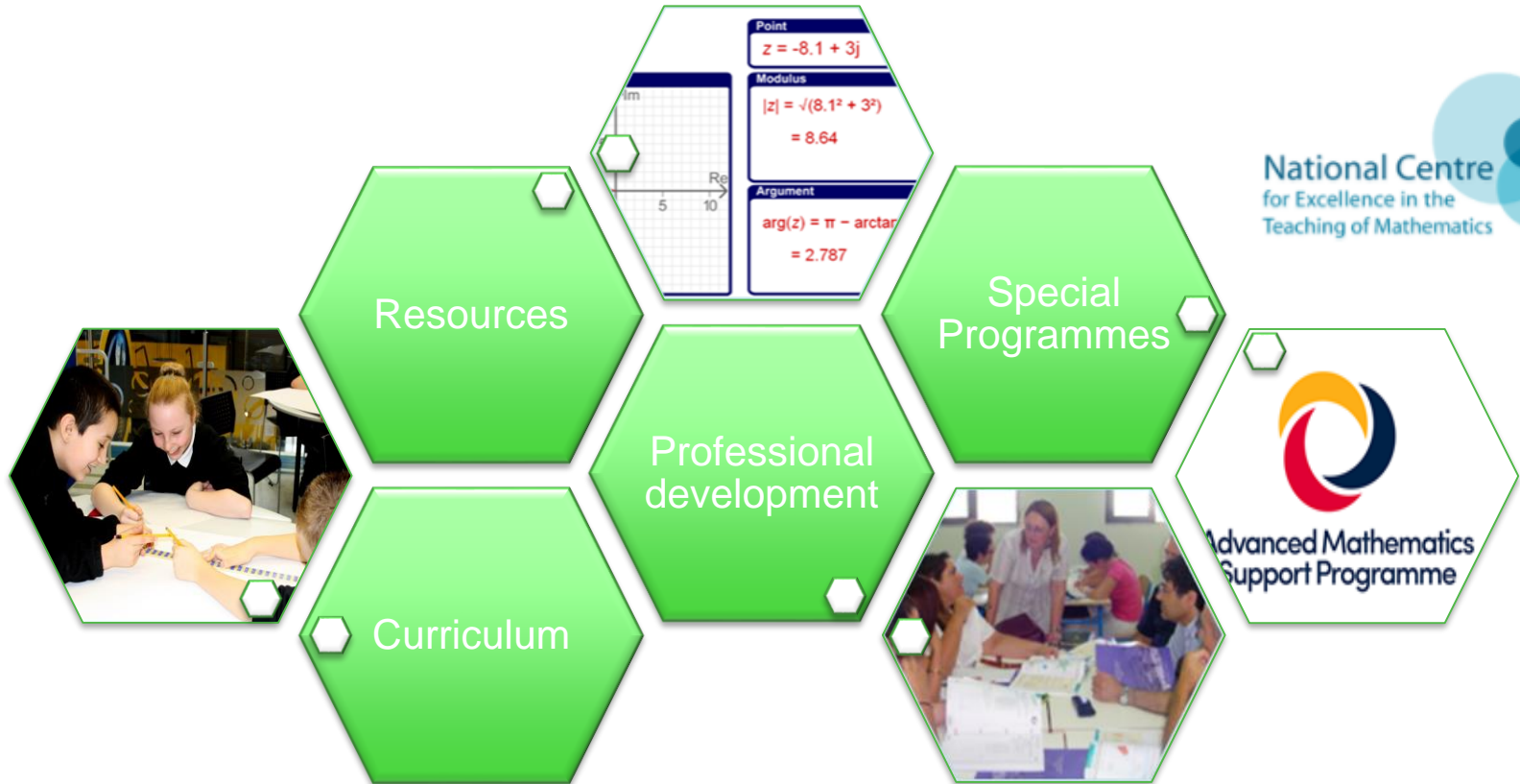
that aims to



# About MEI

- Registered charity committed to improving mathematics education
- Independent UK curriculum development body
- We offer continuing professional development courses, provide specialist tuition for students and work with employers to enhance mathematical skills in the workplace
- We also pioneer the development of innovative teaching and learning resources

# What do we do?





# Advanced Mathematics Support Programme

# About the AMSP

- A government-funded initiative, managed by [MEI](#), providing national support for teachers and students in all state-funded schools and colleges in England.
- It aims to increase participation in AS/A Level Mathematics/ Further Mathematics, Core Maths and improve the teaching of these qualifications.
- Additional support is given to those in priority areas to boost social mobility so that, whatever their gender, background or location, students can choose their best Maths pathway post-16, and have access to high quality Maths teaching.

## An overview of the planned provision

- Provide professional development to enhance Core Maths, AS/A Level Maths & Further Maths courses.
- Provide teaching resources.
- Provide student enrichment and support.
- Provide support for problem solving and university entrance tests.
- Provide support for Opportunity/Priority Areas.



1. Provide professional development to enhance Core Maths, AS/A Level Mathematics & Further Mathematics courses.
  - Sustained professional development for A Level Further Maths or A Level Maths. (*TFM, TAM, TS1&2, TM1&2, TD...*)
  - Short professional development courses for Core Maths, A Level Further Maths and A Level Maths. (*One day and online courses*)
  - Short PD courses for higher-level problem-solving (HLPS) and university entrance test preparation support.
  - Network meetings for Core Maths (*linked to hub workgroups*), and A Level Further Maths, A Level Maths.
  - Online on-demand professional development for aspects of Core Maths and Further Mathematics.

## 2. Provide teaching resources.

- Access to Integral online resources for AS/A Level Further Maths.
- Transfer of existing FMSP resources to AMSP.
- Development and trial of online resources for Core Maths including video content.

## 3. Student enrichment and support

- AS/A Level Further Maths tuition support.
- 11-16 enrichment events.
- (Some of the above will cover Core Maths - Area coordinators)
- Year 10 Maths Feast.

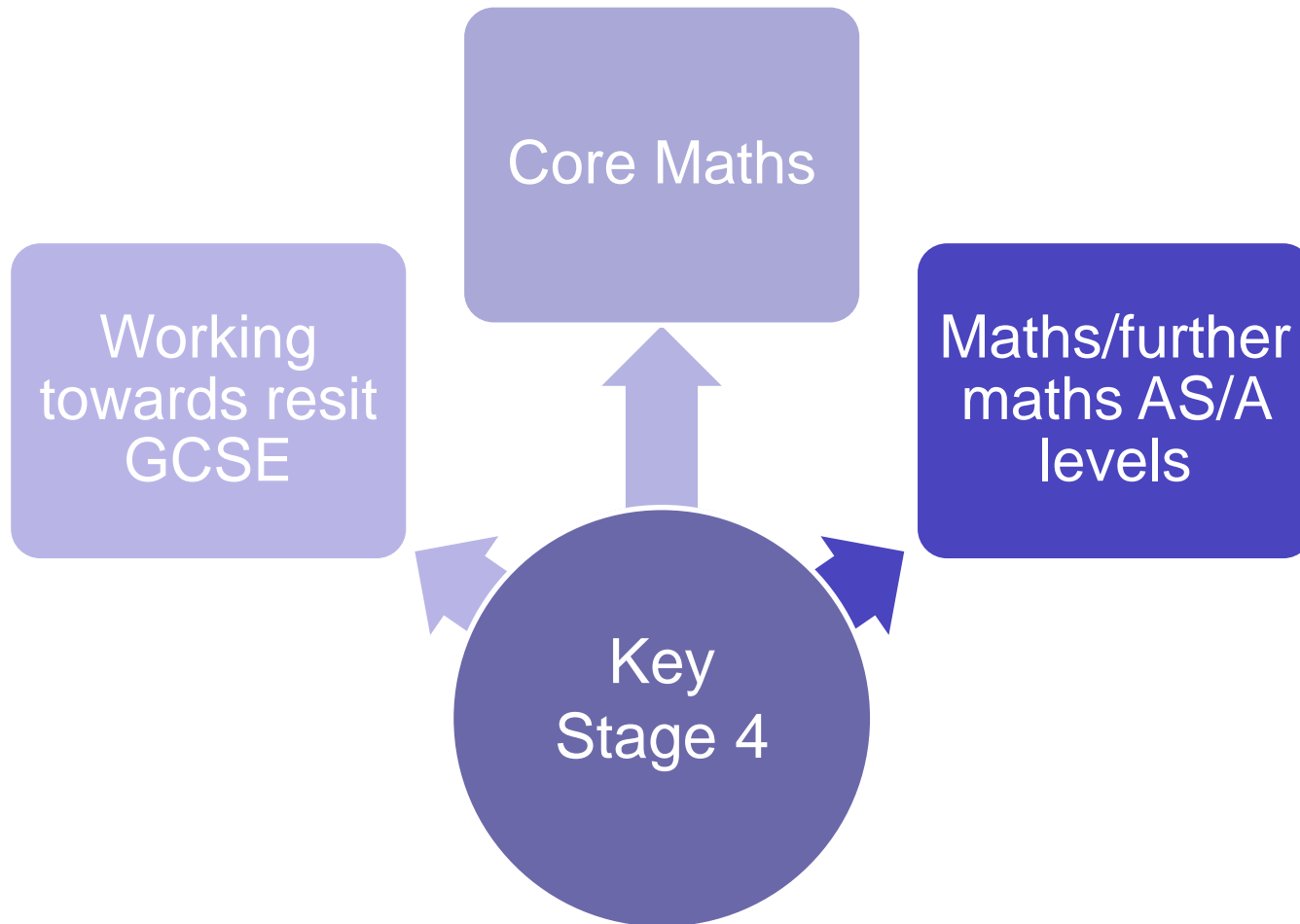
## 4. Support for problem solving and university entrance tests

- Regular support for higher-level Mathematics problem-solving and preparation for university Mathematics entrance tests.
- 16-19 problem-solving enrichment event.
- Senior team maths challenge.
- Advice and guidance to students and liaison with HEIs over entry requirement information.

## 5. Support for Opportunity/Priority Areas

- Supporting Low Participation Area and Opportunity Area schools and colleges to plan for Level 3 Maths provision.
- Encourage centres to participate in AMSP events, and make the most of the support available.

# Post-16 maths study



# AS/A level Maths and Further Maths

- New maths A levels
  - New OCR(MEI) A level specifications
  - Lots of support for all specifications
- Professional Development
  - Sustained courses (TAM and TFM)
  - Short and online courses
- Advanced Maths Support Program
- Resources
  - MEI's 'Integral' online resources



Advanced Mathematics  
Support Programme

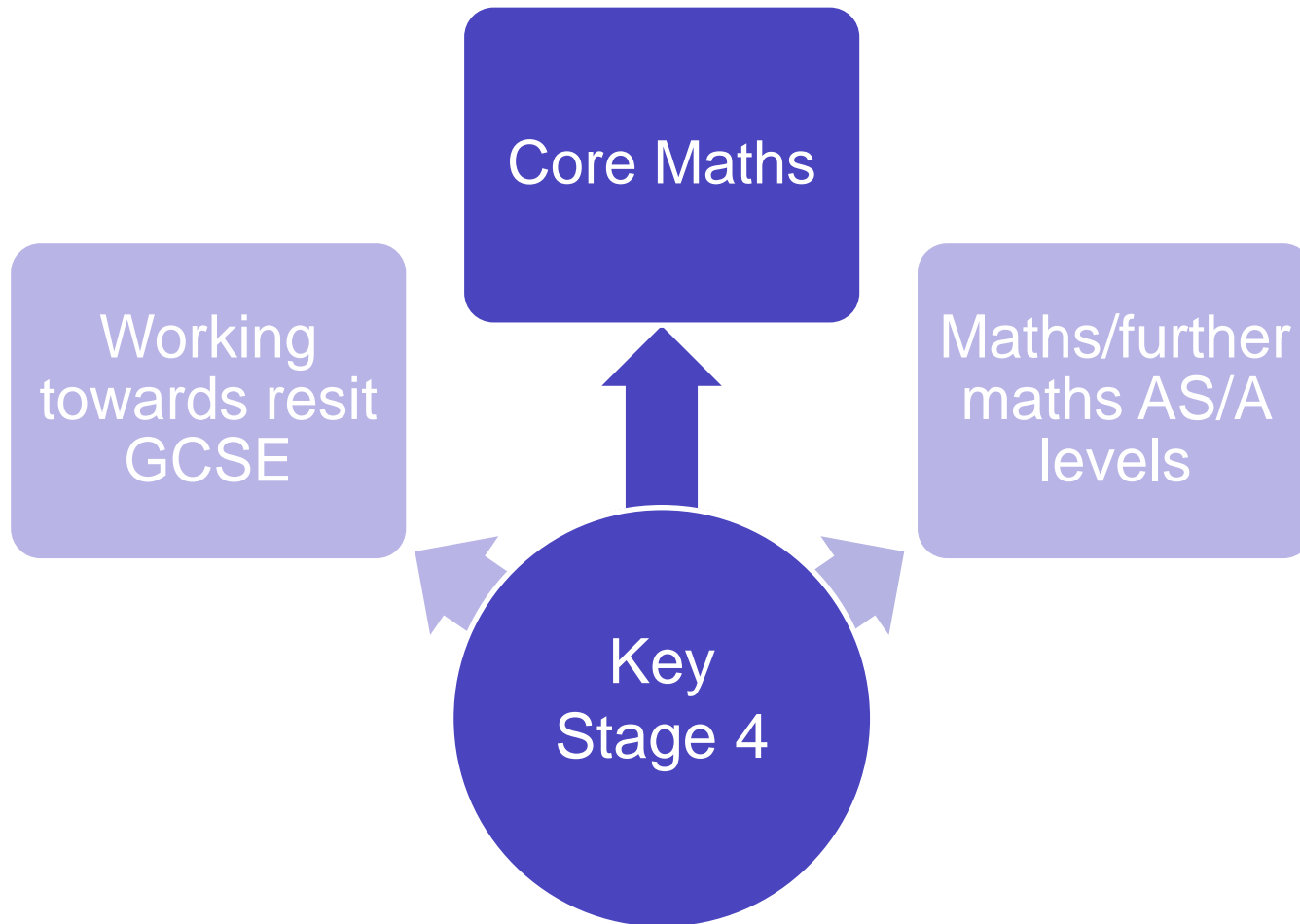


# Problem solving

<http://mei.org.uk/problem-solving-guide>



# Post-16 maths study



# Core Maths

- A range of level 3 qualifications
- Aimed at 16- to 19-year-olds with at least a 'standard pass' in GCSE Maths who do not progress to AS/A level Maths
- Suitable for both A level and vocational pathways
- Similar size to AS
- Same UCAS points as AS
- Designed to run over 2 years
- Lots of MEI resources



## Core Maths face to face PD - Year 1 2018 - 2019

- **18 Large regional events split into two phases**

Phase 1 (now – Oct 2018) – Aimed at centres wishing to start Core Maths for the first time, or those in the early stages of developing Core Maths.

Phase 2 – (Dec 2018 – Jan 2019) – Aimed at centres teaching Core Maths.

- **25 One day courses organised through AMSP area coordinator**

A series of centrally written courses that can be tailored to match local needs.

(Nov 2018) and (Mar 2019)

- **2 LOPD cohorts** (capacity 20) enrolment (Jan 2019 – Mar 2019).
- **20 One day courses for ITT/PGCE students** (Nov 2018- Mar 2019).
- **18 Series of 3 workshops linked to NCETM Maths Hubs workgroups** (Oct 2018 – Feb 2019).

# Working with centres to develop resources

We are intending to develop some online teaching resources by working with 30 centres.

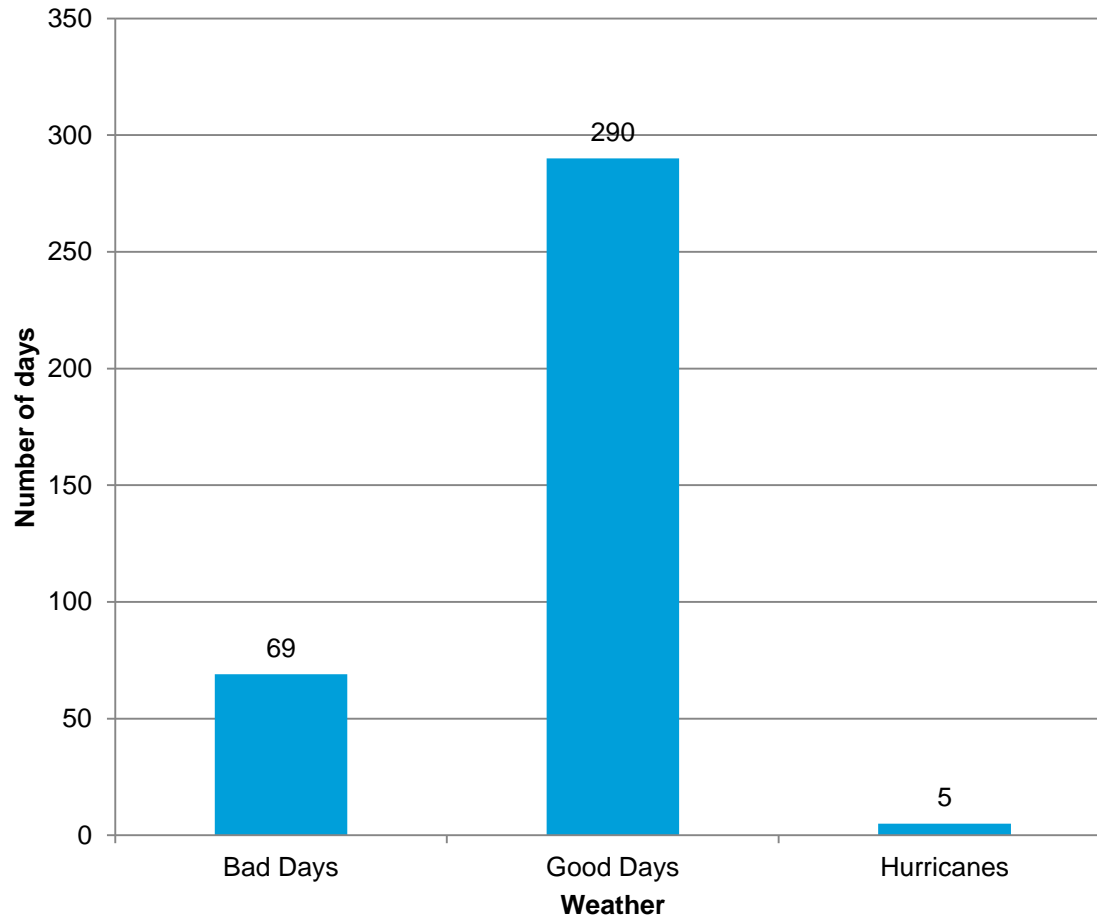
If you think your centre would be interested in working with us, please let Terry know.

[terry.dawson@mei.org.uk](mailto:terry.dawson@mei.org.uk)



Start with £40 and 6 lobster pots.

## Simulated Weather For One Year



$$69 \times -\pounds 6 = -\pounds 414$$

$$290 \times \pounds 5 = \pounds 1450$$

$$5 \times -\pounds 6 = -\pounds 30$$

**-£414**

**+£1450**

**-£30**

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**=£1006**

This resources and other Core Maths resources  
can be found at

<https://integralmaths.org/course/view.php?id=116>