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Development  
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National Centre  
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Teaching of Mathematics



# Discover Quadratics for New Teachers of GCSE

## Loughborough

16th January 2020

### Overview

GCSE Mathematics is more demanding than ever, with new Higher Tier content supporting a national drive to increase the number of students studying maths post-16.

This day follows the development of quadratics from Key Stage 3 to A level Mathematics, considering a range of ideas whilst also reflecting on the teaching and consider the 'big picture' of each topic within the wider curriculum. It forms part of our *Discover Maths for New Teachers of GCSE* suite of courses, aimed at supporting teachers' own understanding of key Higher Tier topics, so that they can confidently lead their students through GCSE into studying post-16 maths.

### Aims

- Enhance subject knowledge at Key Stage 3 and explore how this topic is expanded upon for KS5 maths qualifications.
- Preparation for using classroom resources and powerful visual representations with students.

### Who will benefit from attending?

GCSE Mathematics teachers who want to increase their confidence with teaching quadratics for Higher Tier GCSE.

### Content

- Representing quadratics
- Factorising and expanding quadratic expressions
- Completing the square
- Solving quadratic equations
- Reasoning with quadratic graphs

## Cost

*Discover Quadratics for New Teachers of GCSE* is free to state-funded schools and colleges.

Schools and colleges located within [Priority Areas](#) are eligible to receive a subsidy of £250 to support staff cover and travel costs.

## Participant feedback

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*Lots of ideas that I'm looking forward to sharing with students and teachers.*

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*...helped me feel not so overwhelmed about teaching.*

## Key Facts

<b>Event ref:</b>	#6447
<b>Audience:</b>	Teachers
<b>Curriculum focus:</b>	11-16 maths
<b>Event format:</b>	Face-to-face Professional Development
<b>Event length:</b>	1 day
<b>Region:</b>	East Midlands
<b>Venue:</b>	Loughborough University, Schofield Building Room 0,13, Epinal Way, LE11 3TU
<b>Date:</b>	Thu 16th Jan 2020
<b>Course times:</b>	09:00 - 15:00
<b>Fee:</b>	Free
<b>Priority Area subsidy:</b>	£250

## Registration

For more information, or to register for this event, please visit <https://dev.amspace.org.uk/events/details/6447>