



# Mathematics Teacher Subject Specialism Course\*

This innovative course, delivered by St Helens Teaching School Alliance and Liverpool Hope University, is designed specifically for qualified teachers who are moving into teaching secondary Mathematics, but do not have a previous mathematical qualification. It will enable you to develop your own knowledge and understanding of mathematics subject knowledge for teaching and to appreciate more fully the subject as encountered by learners at school and college.

## Content

- Mental and written calculation approaches and progression, fractions, decimals, ratio and proportion, common misconceptions in algebra, development of own algebraic precision and fluency, proof.
- Dynamic geometry, exploration and proofs of theorems, circles, angles, polygons, transformations, coordinate geometry, locus.
- Approaches to data collection, use of real data, interpretation of graphical forms, measures of average and spread, probability, independent events, conditional probability.
- Throughout there will be a focus on relevant research in mathematics education and theories of learning.

## Delivery

- Part-time over three terms, Autumn - Summer
- Full taught days on three Saturdays per term plus one Friday each term.
- Approximately five weekday twilight sessions per term.

## Assessment

The course can be undertaken as either assessed or non-assessed.

Teachers completing the course without assessment will be awarded a Course Completion Certificate.

Teachers successfully completing the course with assessment will be awarded the Postgraduate Certificate in Mathematics Education which is a Masters level qualification, comprising two 30-credit modules. Assessment consists of three written assignments of 2,500 to 3,500 words each plus one 20-minute presentation.

## Cost

The course is free, subject to eligibility.

*\*Subject To Funding Confirmation.*

**For further information and to apply:**

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