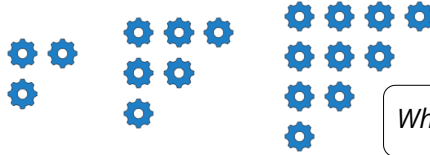




Park Campus  
Boughton Green Road  
Northampton

E-mail: [msp@northampton.ac.uk](mailto:msp@northampton.ac.uk)



*What do you notice?*

# The University of Northampton

## Raising Standards in Mathematics and English

### Postgraduate and CPD Programmes 2018



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Course leaders and contacts

Maths CPD: Dr Amanda O'Shea [Amanda.OShea@northampton.ac.uk]

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## Postgraduate Certificate: Primary Mathematics Specialist Teacher Programme

The Postgraduate Certificate in Primary Mathematics has been developed from the highly successful MaST Specialist Teacher programme. The programme has the ambitious target of ensuring that every school has access to a Masters trained mathematics specialist teacher. It is an aim that was promoted by the Sir Peter Williams' influential review of primary mathematics in 2008.



Our programme, which has been running since 2009, is an 18-month Masters-level course. Participating teachers extend their knowledge, skills and understanding of mathematics and related pedagogy, and develop the skills to support other colleagues in mathematics. The focus is on promoting mathematical reasoning and thinking through the mastery and understanding with reference to the 2013 Curriculum.

The course is modelled on joint CPD, where teachers benefit by taking part in the MaST programme but the school also benefits by dissemination of the ideas and reflection on its impact. It is this joint CPD model that has made the course successful and sustainable in its impact on teaching and learning.

The success of the mathematics MaST programme has led to the development of sister-programmes in Primary English and Primary Computing. We are now also developing a Secondary Mathematics Specialist Teacher Programme.

### Who is the programme for?

Any qualified teacher working within a primary school setting is eligible to apply. You do not need to be a leading mathematics teacher or a mathematics co-ordinator, but you will require the recommendation and support of your head teacher.

### What does the programme include?

- ◆ Face-to-face University led workshops and seminars delivered through 4 Saturday Conference days included in the tuition of each module.
- ◆ Access to an e-learning environment with blended learning resources.
- ◆ Teach-Meet conferences to meet colleagues from other schools.
- ◆ Personal study and reflection on practice in teaching mathematics.
- ◆ Support and personal tutorials for all assignments.

For further information please contact: Dr Amanda O'Shea [Amanda.OShea@northampton.ac.uk]

<https://www.northampton.ac.uk/study/courses/postgraduate-certificate-primary-maths-pgce/>

## Postgraduate Certificate: Primary Mathematics Specialist Teacher



### What are the benefits for you?

- ◆ Be inspired to develop your understanding of mathematical reasoning and the pedagogies that encourage this in your practice.
- ◆ The award of 60 Masters level credits.
- ◆ Postgraduate Certification as a Mathematics Specialist Teacher.
- ◆ Opportunity to continue with further studies to Diploma level (120 credits) or full Masters level (180 credits).

*Teachers taking part in the mathematical Crystal Maze event.*

### How does your school benefit?

- ◆ Raise the profile of mathematics within your school.
- ◆ Enhance the quality of teaching and learning in mathematics with the 2013 Curriculum across the school by developing practice with colleagues
- ◆ Developing a focus on understanding and reasoning in mathematics with pedagogies that encourage mathematical thinking
- ◆ Develop mathematics practice across the school that is focussed on achieving impact on teaching and learning.

### Who will deliver the programme?

The programme will be delivered by our university-based lecturers and professional consultants, all of whom are experienced teachers and respected experts in mathematics education. The University of Northampton has been successfully leading the programme across a wide range of local authorities since 2009. Over 700 teachers have successfully graduated as Mathematics Specialist Teachers through our programme in the many local authorities including Bedfordshire, Cambridgeshire, Ealing, Essex, Lancashire, Lincolnshire, Luton, Milton Keynes, Norfolk, Northamptonshire, Oxfordshire, Peterborough and Rutland Suffolk and Warwickshire.

### Want to find out more?

Between May and October each year, taster events are held at various venues around the UK. These taster events are free and will provide an experience of some aspects of the course. For further information or application, please visit the website or email the course leader below.

**A CPD version of this course without assessment is also available. Please see separate page below.**

For further information please contact: Dr Amanda O'Shea [Amanda.OShea@northampton.ac.uk]  
<https://www.northampton.ac.uk/study/courses/postgraduate-certificate-primary-maths-pgce/>

## **Postgraduate Certificate: Primary English Specialist Teacher Programme**

The Postgraduate Certificate in Primary English has been developed from the highly successful MaST Specialist Mathematics Teacher programme. The programme has been running since 2015 and aims to encourage each school to have a specialist English trained teacher.



The English Specialist Teacher programme is an 18 month Masters-level course. Participating teachers extend their knowledge, skills and understanding of English and related pedagogy, and develop the skills to support other colleagues in English. The course is also modelled on joint CPD, where the teacher benefits by taking part in the programme but the school also benefits by dissemination of the ideas and reflection on its impact. It is this joint CPD model that has made the programme successful and sustainable in its impact on teaching and learning.

*Teachers taking part in English through outdoor learning workshop.*

### **Who is the programme for?**

Any qualified teacher working within a primary school setting is eligible to apply. You do not necessarily need to be a leading English teacher or an English co-ordinator, but you will require the recommendation and support of your head teacher.

### **What does the programme include?**

- ◆ Face-to-face University led workshops and seminars delivered through 4 Saturday Conference days included in the tuition of each module.
- ◆ Access to an e-learning environment with blended learning resources.
- ◆ Online network meetings each year to meet other colleagues from local schools
- ◆ Personal study and reflection on practice in teaching English.
- ◆ Support and personal tutorials for all assignments.

For further information please contact: Joanne Palmer [Joanne.Palmer@northampton.ac.uk]  
<https://www.northampton.ac.uk/study/courses/postgraduate-certificate-in-primary-english-pgce/>



## Postgraduate Certificate: Primary English Specialist Teacher Programme



*Teachers using film as a stimulus for English writing and drama.*

### What are the benefits for you?

- ♦ Be inspired to develop your understanding of English teaching and the pedagogies that encourage this in your practice
- ♦ The award of 60 Masters level credits
- ♦ Postgraduate Certification as an English Specialist Teacher
- ♦ Opportunity to continue with further studies to Diploma level (120 credits) or full Masters level (180 credits).

### How does your school benefit?

- ♦ Raise the profile of English within your school
- ♦ Enhance the quality of teaching and learning in English across the school by developing practice with colleagues
- ♦ Developing a focus on understanding and thinking in English with pedagogies that encourage different practices in English across the 2013 curriculum
- ♦ Develop English practice across the school that is focussed on achieving impact on teaching and learning.

### Who will deliver the programme?

The programme will be delivered by our university-based lecturers and professional consultants, all of whom are experienced teachers and respected experts in English education. The Programme has also featured a range of different speakers on a variety of aspects in the English curriculum.

### Want to find out more?

Between May and October each year, taster events are held at various venues around the UK. These taster events are free and will provide an experience of some aspects of the course. For further information or application, please visit the website or email the course leader below.

**A CPD version of this course without assessment is also available. Please see separate page below.**

For further information please contact: Joanne Palmer [Joanne.Palmer@northampton.ac.uk]

<https://www.northampton.ac.uk/study/courses/postgraduate-certificate-in-primary-english-pgce/>



## Continuing Professional Development: Primary Mathematics Subject and Leadership Development



Our well-known Postgraduate Certificate in Mathematics as a Specialist teacher programme described above, has been successfully running since 2009. It is a masters level course so has assignments that are aligned to the programme assessment. However, we recognise that some teachers may wish to attend the course for professional development without the need to complete assignments.

*Teachers taking part in mathematical thinking.*

This option is available for those teachers wishing to benefit from the course content by attending the Saturday Conferences, but for whom the Postgraduate Certificate assessment is not suitable. It is important to note, though, that this option alone does not then lead to masters level credits or the MaST teacher accreditation. Should any teacher taking the CPD-only route subsequently wish to transfer over to the MaST Postgraduate Certificate route, then this is possible for a top-up fee equivalent to the total Postgraduate Certificate Programme and completion of the assignments.

### What does the course include and what are the benefits?

- ◆ Face-to-face University led workshops and seminars delivered through 4 Saturday Conference days included in the tuition of each CPD module.
- ◆ Networking to meet colleagues from other schools.
- ◆ Lots of resources and ideas related to the 2013 Mathematics Curriculum to take back into your practice and use in your classroom.
- ◆ Enhance the quality of your teaching and learning in mathematics with the ideas and personal professional development.
- ◆ Certificate of Completion for one or both of the two module options available.

### Indicative content of the CPD version.

There are two CPD course options to take:

1. Subject and pedagogical knowledge and understanding including mathematical reasoning, thinking, representation, generality, proportionality and pattern spotting
2. Further subject and pedagogical development including talk and assessment. Teacher action-led research to achieve impact in their classroom and school.



*What do you notice?  
Describe what you see.  
How would you carry on the pattern?*

## Continuing Professional Development: Primary English Subject and Leadership Development



*Teachers taking part in English through drama workshop.*

Our Postgraduate Certificate in English as a Specialist teacher programme described above, has been successfully running since 2015. It is a masters level course so has assignments that are aligned to the programme assessment. However, we recognise that some teachers may wish to attend the course for professional development without the need to complete assignments.

This option is available for those teachers wishing to benefit from the course content by attending the Saturday Conferences, but for whom the Postgraduate Certificate assessment is not suitable. It is important to note, though, that this option alone does not then lead to masters level credits. Should any teacher taking the CPD-only route subsequently wish to transfer over to the MaST Postgraduate Certificate route, then this is possible for a top-up fee equivalent to the total Postgraduate Certificate Programme and completion of the assignments.

### What does the course include and what are the benefits?

- ◆ Face-to-face University led workshops and seminars delivered through 4 Saturday Conference days included in the tuition of each CPD module.
- ◆ Networking to meet colleagues from other schools.
- ◆ Lots of resources and ideas related to the 2013 English Curriculum to take back into your practice and use in your classroom.
- ◆ Enhance the quality of your teaching and learning in English with the ideas and personal professional development.
- ◆ Certificate of Completion for one or both of the two module options available.

### Would like further information?

Please contact the course leader on the email address below.

For further information please contact Joanne Palmer [Joanne.Palmer@northampton.ac.uk]



**A flexible one-year course that can be studied through fully online or blended approaches for master's credits or for CPD.**

The Postgraduate Certificate in Primary Computing has been developed from the highly successful MaST Specialist Mathematics Teacher programme. It aims to encourage schools to have a specialist computing teachers who can lead the school to be outstanding in the field.



*Exploring technology outdoors*

The Postgraduate Certificate in Primary Computing is a flexible one-year course that leads to a third of a master's degree. It is designed to enable primary teachers and their school colleagues to become confident and capable in computing, digital literacy and using educational technology. There is a fully online option for those who are studying at a distance supported by webinars, online tutorials and an active sharing community. Or you can simply take a CPD route with no assignments if you are not seeking masters' credits. Whichever route you take, you will gain the professional recognition, confidence, and leadership skills needed to support technology use in your school. Teachers benefit by taking part in the programme and schools benefit through the dissemination and impact of the ideas. This joint CPD model has made the programme successful.

### **Who is the programme for?**

The programme is aimed at primary teachers or other educationalists with relevant experience in the field. You do not necessarily need to be leading computing or to be an expert.

### **What does the programme include?**

- ◆ Weekly online seminars with fellow teachers engaging in shared enquiry.
- ◆ An online community with an active and supportive network of peers.
- ◆ Access to an e-learning environment with blended learning resources.
- ◆ Half-termly face-to-face University led workshops (optional).
- ◆ Regular campus days (optional).

For further information please contact: Programme Leader, Helen Caldwell at [helen.caldwell@northampton.ac.uk](mailto:helen.caldwell@northampton.ac.uk).

<https://www.northampton.ac.uk/study/courses/postgraduate-certificate-primary-computing-pgce/>

## Postgraduate Certificate: Primary Computing Specialist Teacher Programme



*Computational thinking with Cubetto*

### What are the benefits for you?

- ◆ Be inspired to develop your knowledge through flexible content across computing, digital literacy and educational technology.
- ◆ An online course with optional face-to-face sessions and continual tutor support.
- ◆ The award of 60 master's credits.
- ◆ Postgraduate Certification as a Computing Specialist Teacher.
- ◆ Opportunity to continue with further studies to Diploma level (120 credits) or full master's degree (180 credits).

### How does your school benefit?

- ◆ Raise the profile of computing and technology within your school
- ◆ Enhance the quality of teaching and learning in computing across the school by developing practice with colleagues.
- ◆ Develop a focus on computational thinking, creativity and challenge across the curriculum using a range of technologies.
- ◆ Develop computing practice across the school that is focused on achieving impact on learning.
- ◆ Develop mathematics practice across the school that is focussed on achieving impact on teaching and learning.

### Who will deliver the programme?

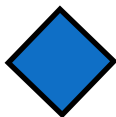
The programme will be delivered by our University based lecturers, all of whom are respected experts in computing education and active researchers. The campus days feature a range of additional speakers.

### Want to find out more?

For further information or application, please visit the website or contact the course leader who will then arrange a visit or a chat: [helen.caldwell@northampton.ac.uk](mailto:helen.caldwell@northampton.ac.uk)

Twitter: @helencaldwel

Quote from a participant: *'I am building a sense of how I need to lead the rest of the school forward in their teaching of the computing curriculum'*



*What is the same?  
What is different?*

## Masters in Education: Mathematics Pathway



*Teachers taking part in mathematical discussions.*

Following the success of the Postgraduate Certificate Mathematics Specialist Teacher programme, a pathway to complete a full MA in Mathematics Education was opened. This pathway brings together the MaST programme alongside other Masters modules and a final dissertation. The aim of the Mathematics Pathway is to enable teachers to develop as practitioners, leaders and researchers within their schools. The pathway is also a stepping-stone to completing a PhD in education.

### Who is the programme for?

Any qualified teacher working within education is eligible to apply. You do not necessarily need to be a leading mathematics teacher or a mathematics co-ordinator, but you will require the support of your headteacher in order to complete the research elements of the pathway.

### Accreditation of Prior Learning.

If you already have previous study at master's level within the last 5 years then it is possible that this prior learning might be offset against EDUM 137 or EDUM118 from this pathway. Up to a possible 30 credits could be exempted in this way for this pathway. If you have up to 60 masters credits, then it is possible to exempt up to 60 credits from the general MA in Education Programme. If you have prior learning at Masters Level, please contact the course Leader Dr Amanda O'Shea at the email address below.



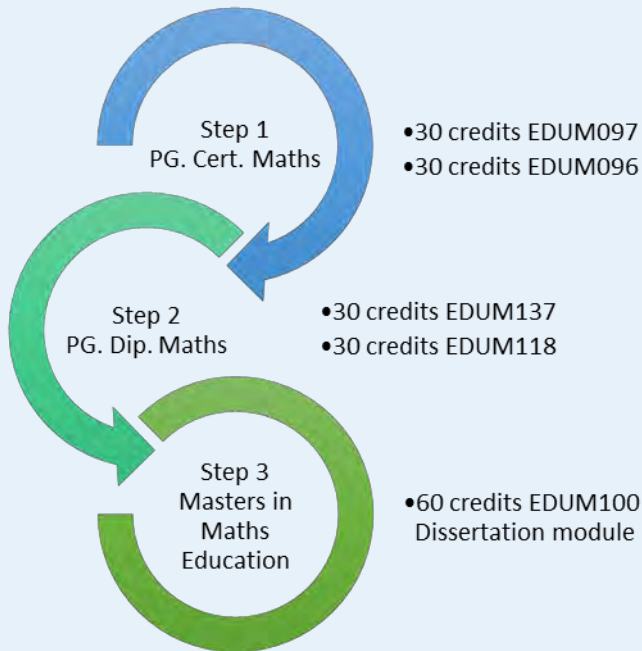
### What are the benefits ?

- ◆ Be inspired to develop your mathematics teaching practice.
- ◆ Raise the profile of mathematics in your school.
- ◆ Achieve impact through research-informed practice.
- ◆ Gain a Master's Degree in Mathematics Education.

*What would Barbie and Ken notice?*

For further information please contact: Dr Amanda O'Shea [Amanda.OShea@northampton.ac.uk]  
<https://www.northampton.ac.uk/study/courses/education-mathematics-pathway-ma/>

## MA Mathematics Pathway Process.



- ◆ EDUM097 and EDUM096 Postgraduate Certificate Specialist Mathematics Teacher programme, 30 credits each over two years (see brochure above).
- ◆ EDUM137 (Previously EDUM106) Contemporary Issues in Education: 30 credits delivered on five Saturdays from October to February each year. In this module, you will engage with key contemporary issues and debates in education, such as assessment. The assignment is an essay which critically analyses and compares two research articles in one aspect of education.
- ◆ EDUM118 Leading Change (a small practitioner research project): 30 credits delivered on 4 Saturdays from Feb to July each year. You will examine and evaluate theoretical concepts in leadership and management. The assignment is a small-scale action research project around leading change in an identified area within your own contexts.
- ◆ EDUM100 Dissertation module (1 Year October to October) 60 credits. Compulsory final module. A research project over one year to include research methods, data collection, analysis and discussion with the literature. 15000 words. For the Mathematics Pathway, this dissertation would be expected to consider a significant mathematics education element in the research study.

For further information please contact: Dr Amanda O'Shea [Amanda.OShea@northampton.ac.uk]

<https://www.northampton.ac.uk/study/courses/education-mathematics-pathway-ma/>