

INTRODUCING ALGEBRA, DYNAMIC DIGITAL EXPLORATION OF ALGEBRAIC PATTERNS AND EXPRESSIONS FOR KS3

Learn how to use technology to give pupils a hands-on introduction to algebra and growing patterns – and the important idea of an algebraic variable in a creative, visual and dynamic way - complete with software, lesson plans and pupil workbooks.



OVERVIEW

This is a 2-day introductory professional development course for the Cornerstone Maths unit on Algebraic patterns and expressions. It provides the (essential) initial training to enable teachers to fully exploit the dynamic technology in their teaching.

The first PD session prepares teachers to become familiar enough with the software (and pupil tasks) to teach early lessons from the curriculum unit, and in particular, to plan for a 'landmark activity' from the curriculum unit.

Teachers should be prepared to teach this lesson to a key stage 3 class as a 'gap task' – and so will need to have secured pupil access to laptops, tablets or a computer suite during the gap.

The second PD session will provide an opportunity for teachers to reflect on their early classroom experiences, share some student outcomes and to become familiar with the later activities within the unit.

WHO SHOULD ATTEND?

- Any teacher of KS3 mathematics or KS4 (Foundation)
- Individuals or teams responsible for

developing rich schemes of work in maths

- Novices and experts alike in using technology in maths lessons

WHAT WILL I LEARN?

- ✓ How to successfully engage learners across the ability range in an interactive way with concepts and contexts related to algebraic patterns and expressions, including important ideas related to notation, conventions and equivalence.
- ✓ How to confidently support learners to investigate independently using the Cornerstone Maths dynamic mathematical software and to lead whole-class teaching with the technology.
- ✓ A range of questioning techniques to develop all learners' justifications of mathematical ideas.
- ✓ Thinking strategies to help you tailor resources to your class

HOW WILL IT CHANGE MY TEACHING?

You will leave the course with strategies and ready-to-use resources that you can implement immediately in your plans.

Date: 21 June 2017
and 20 July 2017

Time: 9:30am - 15:30pm

Venue: UCL Knowledge Lab, WC1N 3QS

Cost: Normally £299+VAT
FREE to teachers from LGfL TRUSTnet schools

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and book a place at
training.lgfl.net

THE TRAINER

BOLA ABILOYE

is an experienced leader of mathematics professional development who works with schools, colleges and Maths Hubs in London and beyond to improve mathematics teaching and learning from KS2 to KS5.

She has worked with Celia Hoyles and Alison Clark-Wilson at UCL Knowledge Lab to develop the workbooks and CPD for Cornerstone Maths from the start of the project in 2011.

Bola was the London Regional Adviser for mathematics for the National Strategies till 2011 and the mathematics consultant and Deputy strategy manager for Tower Hamlets before that.

Bola has contributed to the writing of KS3 resources for Hodder and more recently the Edexcel GCSE (9-1) Practice, Reasoning and Problem Solving textbooks.

Bola is available to support Cornerstone Maths schools during and beyond the initial LGfL Training.



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