

## FROM SIMILARITY TO TRIG RATIOS, DYNAMIC DIGITAL EXPLORATION OF GEOMETRIC SIMILARITY FOR KS3

Learn how to use technology to give pupils a hands-on approach to the big ideas in geometric proportionality in a visual and dynamic way - complete with software, lesson plans and pupil workbooks.



**Date:** 20 June 2017  
and 18 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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[training.lgfl.net](http://training.lgfl.net)

### OVERVIEW

This is a 2-day introductory professional development course for the Cornerstone Maths unit on Geometric similarity. 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 geometric similarity leading to trig ratios, with a focus on proportional reasoning.
- ✓ 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.

### 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.

### THE TRAINER

#### BOLA ABILOYE

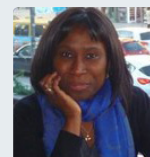
is an experienced leader of mathematics professional development who works with schools, colleges and Maths Hubs in London and beyond to improve mathematics teaching and learning from KS2 to KS5.

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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