

FREE Primary Mathematics CPD for Teachers

The Norfolk & Suffolk Maths Hub is able to offer the following sessions of Mathematics CPD in Sudbury, Suffolk

Monday 8th February 2016: 1pm – 4pm

Algebra for Upper Key Stage 2

Wednesday 10th February 2016: 1pm – 4pm

Calculation Strategies – Written Methods

Wednesday 24th February 2016: 1pm – 4pm

2D and 3D shape

Please note that no lunch will be provided at these sessions

All sessions will be based at Ormiston Sudbury Academy

Each session has a **maximum of 20 places**

Please email drowley@kesgrave.suffolk.sch.uk to book your place
on each course.

Presenter Details

Ruth Bull has worked in Suffolk schools for the past 20 years and has experience as a classroom teacher, a subject leader and a local authority maths adviser. She worked initially in primary schools in both urban and rural settings and then as a head of department in a popular and very successful middle school. She enjoys maths and is enthusiastic about working with others of all ages to support them with their understanding and to address their needs. Ruth now combines freelance advisory work with teaching in a primary school for two days a week. She is a maths primary specialist teacher (MaST qualified) with an MA (Ed) and a BSc in Maths and Computer Science. She has recently become a member of the Advisory Committee for Mathematics Education (ACME outer circle) and is looking forward to be involved in shaping future strategy. She is also involved in maths enrichment and is one of the main coordinators in Suffolk for the Royal Institution Y8 masterclasses.

Course Details

Algebra for Upper Key stage 2

What exactly is algebra?

How should it be taught to year 5 and year 6?

This course uses the “Concrete Pictorial Abstract” (CPA) approach to develop algebraic understanding.

Delegates will:

- ▶ Connect generality in number to algebraic thinking
- ▶ Experience a range of models, images and resources to develop their understanding of algebra
- ▶ Consider how patterns and algebra are connected
- ▶ Explore ideas to introduce algebra to Upper Key Stage 2 pupils

Calculation Strategies – Written Methods

This course develops conceptual understanding of written calculation strategies using a CPA (Concrete, pictorial, abstract) approach.

Delegates will:

- ▶ Experience a range of models, images and resources to use in the classroom which give pupils the opportunity to develop their understanding of place value and calculation strategies.
- ▶ Be offered guidance on the teaching and learning of written calculations
- ▶ Develop a clear understanding of the progression of calculation skills in each of the four operations

2D and 3D shape

Developing understanding of shape through paper folding, this course looks at properties of 2d shapes and their links to 3d shapes.

Delegates will:

- ▶ Explore a variety of 2d shapes and their properties through paper folding
- ▶ Consider angles and tessellation in 2d shape
- ▶ Gain a deeper understanding of 3d shapes and their nets
- ▶ Develop ideas for how they might explore shape with their pupils